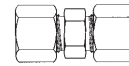
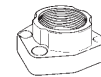


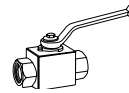
Klik op uw keuze



1



2



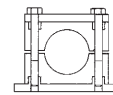
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4



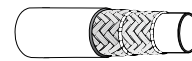
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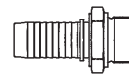
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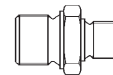
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8



9



10



11



12



13



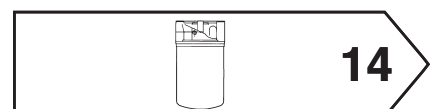
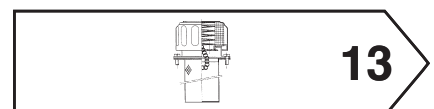
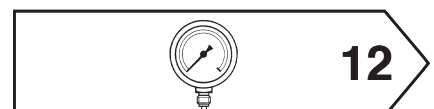
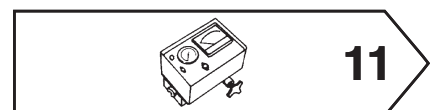
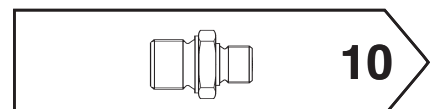
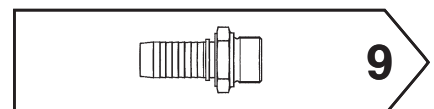
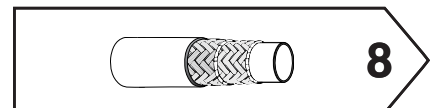
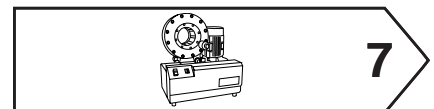
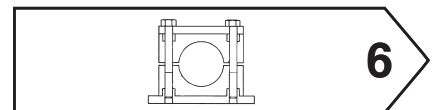
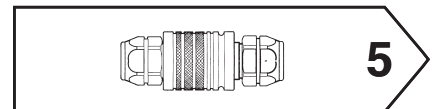
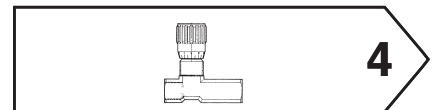
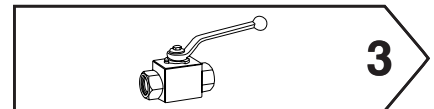
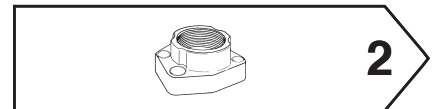
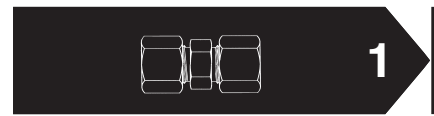
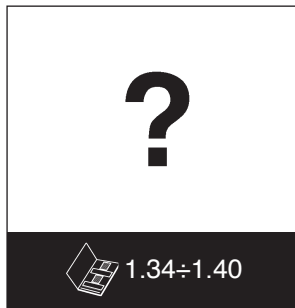
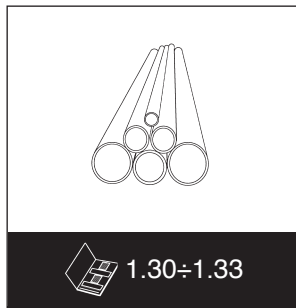
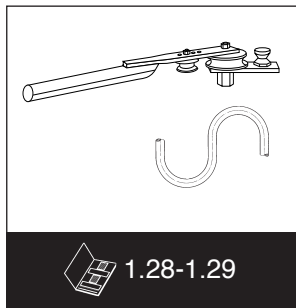
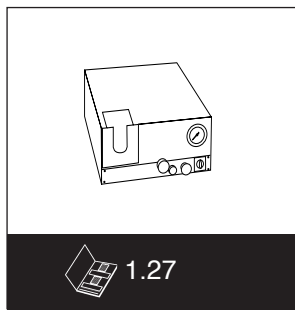
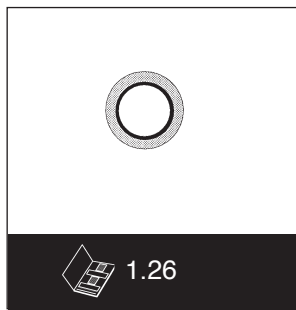
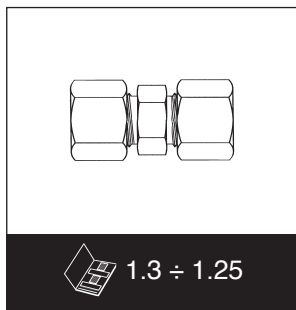
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INFO

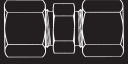
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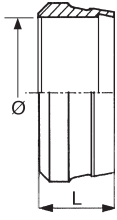
INDEX

16



1

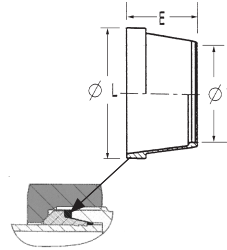




**1000
2000
3000**

DIN 3861

**Snijring
Bague coupante
Cutting ring
Schneidring**



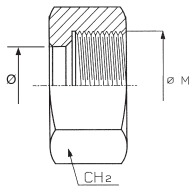
1000-7

1000-7 → ← 1000

**Elastische dichting LL7
Joint elastique LL7
Elastic sealing LL7
Elastische Dichtung LL7**

DIN 2353	Ø	BAR			L	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti					
LL	4				6	1000-04LL		3000-04LL	
	6				7	1000-06LL		3000-06LL	
	8				7	1000-08LL		3000-08LL	
L	6				9,5	1000-06L	2000-06L	3000-06L	
	8				9,5	1000-08L	2000-08L	3000-08L	
	10				10	1000-10L	2000-10L	3000-10L	
	12				10	1000-12L	2000-12L	3000-12L	
	15				10	1000-15L	2000-15L	3000-15L	
	18				10	1000-18L	2000-18L	3000-18L	
	22				10,5	1000-22L	2000-22L	3000-22L	
	28				10,5	1000-28L	2000-28L	3000-28L	
	35				13	1000-35L	2000-35L	3000-35L	
	42				13,5	1000-42L	2000-42L	3000-42L	
	S	6				9,5	1000-06S	2000-06S	3000-06S
		8				9,5	1000-08S	2000-08S	3000-08S
10					10	1000-10S	2000-10S	3000-10S	
12					10	1000-12S	2000-12S	3000-12S	
14					10	1000-14S	2000-14S	3000-14S	
16					10,5	1000-16S	2000-16S	3000-16S	
20					12,5	1000-20S	2000-20S	3000-20S	
25					12,5	1000-25S	2000-25S	3000-25S	
30					13	1000-30S	2000-30S	3000-30S	
38					13,5	1000-38S	2000-38S	3000-38S	

DIN 2353	Ø	BAR			ØL	E	NBR REF.
		Fe	CuZn	316Ti			
L	6				9,1	7,3	1000-7-06L
	8				11,1	7,3	1000-7-08L
	10				13,3	7,3	1000-7-10L
	12				15,3	7,0	1000-7-12L
	15				19,0	7,2	1000-7-15L
	18				22,8	7,7	1000-7-18L
S	22				26,3	7,9	1000-7-22L
	28				32,3	8,0	1000-7-28L
	35				41,3	8,0	1000-7-35L
	42				48,3	8,2	1000-7-42L
	6				9,1	7,3	1000-7-06S
	8				11,1	7,3	1000-7-08S
S	10				13,3	7,3	1000-7-10S
	12				15,3	7,0	1000-7-12S
	14				18,8	7,2	1000-7-14S
	16				20,8	7,5	1000-7-16S
	20				25,8	9,3	1000-7-20S
	25				31,5	8,9	1000-7-25S
S	30				37,3	8,2	1000-7-30S
	38				46,0	8,2	1000-7-38S

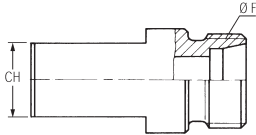


**1001
2001
3001**

DIN 3870

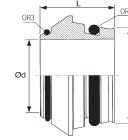
**Moer
Ecrou
Nut
Mutter**

DIN 2353	Ø	BAR			Ø M	CH2	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
LL	4				M 8x1	10	1001-04LL		3001-04LL	
	6				M10x1	12	1001-06LL		3001-06LL	
	8				M12x1	14	1001-08LL		3001-08LL	
L	6				M12x1,5	14	1001-06L	2001-06L	3001-06L	
	8				M14x1,5	17	1001-08L	2001-08L	3001-08L	
	10				M16x1,5	19	1001-10L	2001-10L	3001-10L	
	12				M18x1,5	22	1001-12L	2001-12L	3001-12L	
	15				M22x1,5	27	1001-15L	2001-15L	3001-15L	
	18				M26x1,5	32	1001-18L	2001-18L	3001-18L	
	22				M30x2	36	1001-22L	2001-22L	3001-22L	
	28				M36x2	41	1001-28L	2001-28L	3001-28L	
	35				M45x2	50	1001-35L	2001-35L	3001-35L	
	42				M52x2	60	1001-42L	2001-42L	3001-42L	
	S	6				M14x1,5	17	1001-06S	2001-06S	3001-06S
		8				M16x1,5	19	1001-08S	2001-08S	3001-08S
10					M18x1,5	22	1001-10S	2001-10S	3001-10S	
12					M20x1,5	24	1001-12S	2001-12S	3001-12S	
14					M22x1,5	27	1001-14S	2001-14S	3001-14S	
16					M24x1,5	30	1001-16S	2001-16S	3001-16S	
20					M30x2	36	1001-20S	2001-20S	3001-20S	
25					M36x2	46	1001-25S	2001-25S	3001-25S	
30					M42x2	50	1001-30S	2001-30S	3001-30S	
38					M52x2	60	1001-38S	2001-38S	3001-38S	



1002

**Voormontageblok
Bloc de pré-sertissage
Pre-assembly adaptor
Vormontagegestutzen**



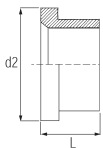
1003-0

3003-0

**FLARE DIN 3949
Tussenring
Bague intermédiaire
O-ring adaptor
Zwischenring**

DIN 2353	Ø	BAR			ØF	CH	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
L	6				M12x1,5	14	1002-06L		
	8				M14x1,5	17	1002-08L		
	10				M16x1,5	19	1002-10L		
	12				M18x1,5	22	1002-12L		
	15				M22x1,5	27	1002-15L		
	18				M26x1,5	32	1002-18L		
	22				M30x2	36	1002-22L		
	28				M36x2	41	1002-28L		
	35				M45x2	50	1002-35L		
	42				M52x2	60	1002-42L		
S	6				M14x1,5	17	1002-06S		
	8				M16x1,5	19	1002-08S		
	10				M18x1,5	22	1002-10S		
	12				M20x1,5	24	1002-12S		
	14				M22x1,5	27	1002-14S		
	16				M24x1,5	30	1002-16S		
	20				M30x2	36	1002-20S		
	25				M36x2	46	1002-25S		
	30				M42x2	50	1002-30S		
	38				M52x2	60	1002-38S		

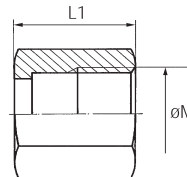
DIN 2353	Ø	BAR			Ø d	L	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
L	6	315		500	3	11,5	1003-0-06L		3003-0-06L
	8	315		500	5	12	1003-0-08L		3003-0-08L
	10	315		500	6	12,5	1003-0-10L		3003-0-10L
	12	315		400	8	12,5	1003-0-12L		3003-0-12L
	15	315		400	11	12,5	1003-0-15L		3003-0-15L
	18	315		400	14	13	1003-0-18L		3003-0-18L
	22	160		250	17	14,2	1003-0-22L		3003-0-22L
	28	160		250	23	14,7	1003-0-28L		3003-0-28L
	35	160		250	28	18,5	1003-0-35L		3003-0-35L
	42	160		250	35	20,5	1003-0-42L		3003-0-42L
S	6	630		630	3	11,5	1003-0-06L		3003-0-06L
	8	630		630	5	12	1003-0-08L		3003-0-08L
	10	630		630	6	12,5	1003-0-10L		3003-0-10L
	12	630		630	8	12,5	1003-0-12L		3003-0-12L
	14	630		630	9	14	1003-0-14S		3003-0-14S
	16	400		630	11	15	1003-0-16S		3003-0-16S
	20	400		400	14	18,5	1003-0-20S		3003-0-20S
	25	400		400	19	20	1003-0-25S		3003-0-25S
	30	400		400	23	22	1003-0-30S		3003-0-30S
	38	315		400	30	26	1003-0-38S		3003-0-38S



1003-1

3003-1

**FLARE DIN 3949
Drukkring
Manchette
Flare sleeve
Druckring**



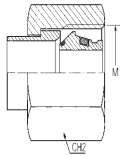
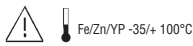
1003-2

3000-2

**FLARE DIN 3949
Moer
Ecrou
Nut
Mutter**

DIN 2353	Ø	BAR			L	d2	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
L	6	315		500	10,5	18,2	1003-1-06L		3003-1-06L
	8	315		500	11	12,2	1003-1-08L		3003-1-08L
	10	315		500	12,5	14,2	1003-1-10L		3003-1-10L
	12	315		400	13	16,2	1003-1-12L		3003-1-12L
	15	315		400	14	20,2	1003-1-15L		3003-1-15L
	18	315		400	14,5	24,2	1003-1-18L		3003-1-18L
	22	160		250	18	27,8	1003-1-22L		3003-1-22L
	28	160		250	17	33,8	1003-1-28L		3003-1-28L
	35	160		250	19	42,7	1003-1-35L		3003-1-35L
	42	160		250	21	49,7	1003-1-42L		3003-1-42L
S	6	630		630	10,5	10,2	1003-1-06L		3003-1-06L
	8	630		630	11	12,2	1003-1-08L		3003-1-08L
	10	630		630	12,5	14,2	1003-1-10L		3003-1-10L
	12	630		630	13	16,2	1003-1-12L		3003-1-12L
	14	630		630	14,5	20,2	1003-1-14S		3003-1-14S
	16	400		630	17	22	1003-1-16S		3003-1-16S
	20	400		400	17,5	27,8	1003-1-20S		3003-1-20S
	25	400		400	20	32,8	1003-1-25S		3003-1-25S
	30	400		400	21,5	39	1003-1-30S		3003-1-30S
	38	315		400	26,5	48,5	1003-1-38S		3003-1-38S

DIN 2353	Ø	BAR			Ø M	L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
L	6	315		500	M12x1,5	18	1003-2-06L		3003-2-06L
	8	315		500	M14x1,5	19	1003-2-08L		3003-2-08L
	10	315		500	M16x1,5	20,5	1003-2-10L		3003-2-10L
	12	315		400	M18x1,5	21,5	1003-2-12L		3003-2-12L
	15	315		400	M22x1,5	24	1003-2-15L		3003-2-15L
	18	315		400	M26x1,5	23	1003-2-18L		3003-2-18L
	22	160		250	M30x2	27,5	1003-2-22L		3003-2-22L
	28	160		250	M36x2	27,5	1003-2-28L		3003-2-28L
	35	160		250	M45x2	30	1003-2-35L		3003-2-35L
	42	160		250	M52x2	34	1003-2-42L		3003-2-42L
S	6	630		630	M14x1,5	19	1003-2-06S		3003-2-06S
	8	630		630	M16x1,5	20	1003-2-08S		3003-2-08S
	10	630		630	M18x1,5	21,5	1003-2-10S		3003-2-10S
	12	630		630	M20x1,5	22	1003-2-12S		3003-2-12S
	14	630		630	M22x1,5	24	1003-2-14S		3003-2-14S
	16	400		630	M24x1,5	26,5	1003-2-16S		3003-2-16S
	20	400		400	M30x2	27,5	1003-2-20S		3003-2-20S
	25	400		400	M36x2	30,5	1003-2-25S		3003-2-25S
	30	400		400	M42x2	32	1003-2-30S		3003-2-30S
	38	315		400	M52x2	38	1003-2-38S		3003-2-38S

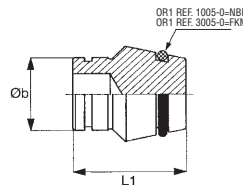


1004-0

3004-0

FLARE DIN 3949

Set
Ensemble
Set
Satz



1005-0

3005-0

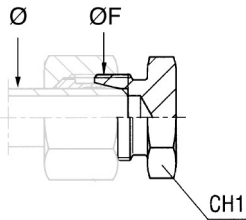
DIN 3870

Blindplug
Bouchon
Blanking plug
Verschlußbutzen

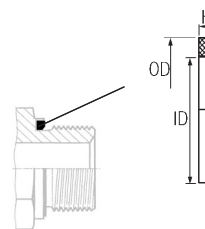
DIN 2353	Ø	BAR			Ø M	CH2	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		500	M12x1,5	14	1004-0-06L		3004-0-06L
	8	315		500	M14x1,5	17	1004-0-08L		3004-0-08L
	10	315		500	M16x1,5	19	1004-0-10L		3004-0-10L
	12	315		400	M18x1,5	22	1004-0-12L		3004-0-12L
	15	315		400	M22x1,5	27	1004-0-15L		3004-0-15L
	18	315		400	M26x1,5	32	1004-0-18L		3004-0-18L
	22	160		250	M30x2	36	1004-0-22L		3004-0-22L
	28	160		250	M36x2	41	1004-0-28L		3004-0-28L
	35	160		250	M45x2	50	1004-0-35L		3004-0-35L
	42	160		250	M52x2	60	1004-0-42L		3004-0-42L
S	6	630		630	M14x1,5	17	1004-0-06S		3004-0-06S
	8	630		630	M16x1,5	19	1004-0-08S		3004-0-08S
	10	630		630	M18x1,5	22	1004-0-10S		3004-0-10S
	12	630		630	M20x1,5	24	1004-0-12S		3004-0-12S
	14	630		630	M22x1,5	27	1004-0-14S		3004-0-14S
	16	400		630	M24x1,5	30	1004-0-16S		3004-0-16S
	20	400		400	M30x2	36	1004-0-20S		3004-0-20S
	25	400		400	M36x2	46	1004-0-25S		3004-0-25S
	30	400		400	M42x2	50	1004-0-30S		3004-0-30S
	38	315		400	M52x2	60	1004-0-38S		3004-0-38S

DIN 2353	Ø	BAR			Ø b	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	6	18,5	1005-0-06L		3005-0-06L
	8	315		250	8	18	1005-0-08L		3005-0-08L
	10	315		250	10	19,5	1005-0-10L		3005-0-10L
	12	315		250	12	19	1005-0-12L		3005-0-12L
	15	315		250	15	19	1005-0-15L		3005-0-15L
	18	315		160	18	22	1005-0-18L		3005-0-18L
	22	160		160	22	22	1005-0-22L		3005-0-22L
	28	160		100	28	23,5	1005-0-28L		3005-0-28L
	35	160		100	35	27	1005-0-35L		3005-0-35L
	42	160		100	42	27,5	1005-0-42L		3005-0-42L
S	6	630		630	6	18,5	1005-0-06S		3005-0-06S
	8	630		630	8	18	1005-0-08S		3005-0-08S
	10	630		630	10	19,5	1005-0-10S		3005-0-10S
	12	630		630	12	19	1005-0-12S		3005-0-12S
	14	630		630	14	21	1005-0-14S		3005-0-14S
	16	400		400	16	22	1005-0-16S		3005-0-16S
	20	400		400	20	26,5	1005-0-20S		3005-0-20S
	25	400		400	25	27,5	1005-0-25S		3005-0-25S
	30	400		250	30	28,5	1005-0-30S		3005-0-30S
	38	315		250	38	32,5	1005-0-38S		3005-0-38S

1005-1



Blindplug voor buis
Bouchon pour tube
Blanking plug for tube end
Verschlußbutzen für Rohrende



1006-ED

3006-EDV

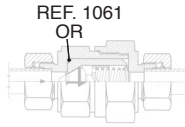
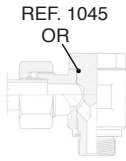
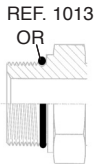
DIN 3869 (85 IRHD)

Elastische dichtring ED
Joint élastique ED
Elastic sealing ED
Elastische Abdichtung ED

DIN 2353	Ø	BAR			ØF	Ch1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315			M12x1,5	12	1005-1-06L		
	8	315			M14x1,5	14	1005-1-08L		
	10	315			M16x1,5	17	1005-1-10L		
	12	315			M18x1,5	19	1005-1-12L		
	15	315			M22x1,5	24	1005-1-15L		
	18	315			M26x1,5	27	1005-1-18L		
	22	160			M30x2	32	1005-1-22L		
	28	160			M36x2	41	1005-1-28L		
	35	160			M45x2	46	1005-1-35L		
	42	160			M52x2	55	1005-1-42L		
S	6	630			M14x1,5	14	1005-1-06S		
	8	630			M16x1,5	17	1005-1-08S		
	10	630			M18x1,5	19	1005-1-10S		
	12	630			M20x1,5	22	1005-1-12S		
	14	630			M22x1,5	24	1005-1-14S		
	16	400			M24x1,5	27	1005-1-16S		
	20	400			M30x2	32	1005-1-20S		
	25	400			M36x2	41	1005-1-25S		
	30	400			M42x2	46	1005-1-30S		
	38	315			M52x2	55	1005-1-38S		

BSPP	ID	OD	H	NBR (85 IRHD)	VITON®
				REF.	REF.
G1/8	8,5	12	1	1006-ED-10	3006-EDV-10
G1/4	11,4	16,5	1,5	1006-ED-14	3006-EDV-14
G3/8	14,8	19	1,5	1006-ED-16	3006-EDV-16
G1/2	18,6	24	1,5	1006-ED-21	3006-EDV-21
G3/4	24	29	1,5	1006-ED-27	3006-EDV-27
G1	30	36	2	1006-ED-33	3006-EDV-33
G1.1/4	39,2	46	2	1006-ED-42	3006-EDV-42
G1.1/2	45,2	51	2	1006-ED-48	3006-EDV-48
DIN 13 METR.	ID	OD	H	NBR REF.	VITON® REF.
M10x1	8,5	8,5	12	1006-ED-10	3006-EDV-10
M12x1,5	9,9	15	1,5	1006-ED-12	3006-EDV-12
M14x1,5	11,4	16,5	1,5	1006-ED-14	3006-EDV-14
M16x1,5	14,8	19	1,5	1006-ED-16	3006-EDV-16
M18x1,5	15,9	21	1,5	1006-ED-18	3006-EDV-18
M20x1,5	17,9	23	1,5	1006-ED-20	3006-EDV-20
M22x1,5	19,9	24,5	1,5	1006-ED-22	3006-EDV-22
M27x2	24	29	1,5	1006-ED-27	3006-EDV-27
M33x2	30	36	2	1006-ED-33	3006-EDV-33
M42x2	39,2	46	2	1006-ED-42	3006-EDV-42
M48x2	4	5,2	51	1006-ED-48	3006-EDV-48

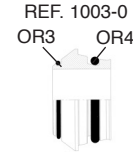
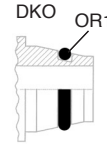
⚠ NBR -35/+100°C
 ⚠ VITON -25/+125°C



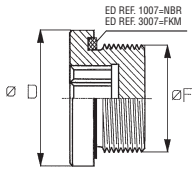
1006-OR

3006-ORV

O-ring
Joint torique
O-ring
O-Ring



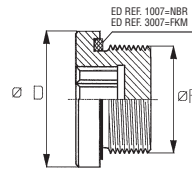
IDxH mm	OR			OR1 DIN 2353 DKO	OR3	OR4	OR5	NBR (85 IRHD) REF.	VITON® (85 IRHD) REF.
	REF. 1013 (UNF)	REF. 1045	REF. 1061						
4x1,5 4,4x0,8 6x0,8 6x1 6x1,5				6L 8L/8S	6L 8L/8S	6L 8L	G1/4"	1006-OR-06 1006-OR-4,4x0,8 1006-OR-6,0x0,8 1006-OR-6,0x1,0 1006-OR-08	3006-ORV-06 3006-ORV-4,4x0,8 3006-ORV-6,0x0,8 3006-ORV-6,0x1,0 3006-ORV-08
7,5x0,8 7,5x1,5 7,65x1,78 8x1 8,1x1,6		G1/8"/M10		10L/10S	10L	10L	G3/8"	1006-OR-7,5x0,8 1006-OR-10 1006-OR-7,65x1,78 1006-OR-8,0x1,0 1006-OR-1,8x1,6	3006-ORV-7,5x0,8 3006-ORV-10 3006-ORV-7,65x1,78 3006-ORV-8,0x1,0 3006-ORV-1,8x1,6
8,92x1,83 9x1,5 9,5x0,8 10x1 10x2	7/16"			12L/12S 14S	12L	12L 14S		1006-OR-8,92x1,83 1006-OR-12 1006-OR-9,5x0,8 1006-OR-10,0x1,0 1006-OR-14	3006-ORV-8,92x1,83 3006-ORV-12 3006-ORV-9,5x0,8 3006-ORV-10,0x1,0 3006-ORV-14
11x1 11x1,5 11,1x1,78 11,9x1,98 12x1	9/16"	G1/4"/M12/M14	8L/10L/8S/10S		14S			1006-OR-11,0x1,0 1006-OR-11,0x1,5 1006-OR-11,1x1,78 1006-OR-11,9x1,98 1006-OR-12,0x1,0	3006-ORV-11,0x1,0 3006-ORV-11,0x1,5 3006-ORV-11,1x1,78 3006-ORV-11,9x1,98 3006-ORV-12,0x1,0
12,1x1,6 12x2 12,5x0,8 12,5x1 13,1x1,6				15L/16S	15L 16S	15L/16S	G1/2" G5/8"	1006-OR-12,1x1,6 1006-OR-15 1006-OR-12,5x0,8 1006-OR-12,5x1,0 1006-OR-13,1x1,6	3006-ORV-12,1x1,6 3006-ORV-15 3006-ORV-12,5x0,8 3006-ORV-12,5x1,0 3006-ORV-13,1x1,6
14x1 14x1,78 15x1 15x2 16x1		G3/8"/M16	12L/12S	18L	18L 20S	18L		1006-OR-14,0x1,0 1006-OR-14,0x1,78 1006-OR-15,0x1,0 1006-OR-18 1006-OR-16,0x1,0	3006-ORV-14,0x1,0 3006-ORV-14,0x1,78 3006-ORV-15,0x1,0 3006-ORV-18 3006-ORV-16,0x1,0
16x2,5 16,3x2,4 16,36x2,2 17,1x1,6 18x1	3/4"			20S		20S	G3/4"	1006-OR-16,0x2,5 1006-OR-20 1006-OR-16,36x2,2 1006-OR-17,1x1,6 1006-OR-18,0x1,0	3006-ORV-16,0x2,5 3006-ORV-20 3006-ORV-16,36x2,2 3006-ORV-17,1x1,6 3006-ORV-18,0x1,0
18,77x1,78 19x1,5 19,18x2,46 20x1 20x2	7/8"	G1/2"/M18/M20/M22	15L/18L/14S/16S	22L	25S	22L		1006-OR-18,77x1,78 1006-OR-19,0x1,5 1006-OR-19,18x2,46 1006-OR-20,0x1,0 1006-OR-22	3006-ORV-18,77x1,78 3006-ORV-19,0x1,5 3006-ORV-19,18x2,46 3006-ORV-20,0x1,0 3006-ORV-22
20x2,5 20,3x2,4 22x1 23x1 22,1x1,6				25S		25S	G1"	1006-OR-20,0x2,5 1006-OR-25 1006-OR-22,0x1,0 1006-OR-23,0x1,0 1006-OR-22,1x1,6	3006-ORV-20,0x2,5 3006-ORV-25 3006-ORV-22,0x1,0 3006-ORV-23,0x1,0 3006-ORV-22,1x1,6
23,47x2,95 23,81x2,62 25x1 25x2,5 25,3x2,4	1.1/16"	G3/4"/M26/M27		30S	30S	30S		1006-OR-23,47x2,95 1006-OR-23,81x2,62 1006-OR-25,0x1,0 1006-OR-25,0x2,5 1006-OR-30	3006-ORV-23,47x2,95 3006-ORV-23,81x2,62 3006-ORV-25,0x1,0 3006-ORV-25,0x2,5 3006-ORV-30
26x2 28x1 29,1x1,6 29,5x1,5 29,74x2,95	1.5/16"		22L/20S/25S	28L		28L	G1.1/4"	1006-OR-28 1006-OR-28,0x1,0 1006-OR-29,1x1,6 1006-OR-29,5x1,5 1006-OR-29,74x2,95	3006-ORV-28 3006-ORV-28,0x1,0 3006-ORV-29,1x1,6 3006-ORV-29,5x1,5 3006-ORV-29,74x2,95
29,82x2,62 30x1 30x2 32x1,78 32x2,5		G1"/M33	28L	35L	38S	35L		1006-OR-29,82x2,62 1006-OR-30,0x1,0 1006-OR-30,0x2,0 1006-OR-32x1,78 1006-OR-35	3006-ORV-29,82x2,62 3006-ORV-30,0x1,0 3006-ORV-30,0x2,0 3006-ORV-32x1,78 3006-ORV-35
33x2,5 33,3x2,4 35x1 35,1x1,6 37x1				38S		38S	G1.1/2"	1006-OR-33,0x2,5 1006-OR-38 1006-OR-35,0x1,0 1006-OR-35,1x1,6 1006-OR-37,0x1,0	3006-ORV-33,0x2,5 3006-ORV-38 3006-ORV-35,0x1,0 3006-ORV-35,1x1,6 3006-ORV-37,0x1,0
37,46x3 37,77x2,62 38x1 38x2,5 39x2,5	1.5/8"	G1.1/4"/M42	35L/42L/30S/38S	42L		42L		1006-OR-37,46x3 1006-OR-37,77x2,62 1006-OR-38,0x1,0 1006-OR-42 1006-OR-39,0x2,5	3006-ORV-37,46x3 3006-ORV-37,77x2,62 3006-ORV-38,0x1,0 3006-ORV-42 3006-ORV-39,0x2,5
41,28x3,53 42x1 48,1x1,6		G1.1/2"/M48					G2"	1006-OR-41,28x3,53 1006-OR-42,0x1,0 1006-OR-48,1x1,6	3006-ORV-41,28x3,53 3006-ORV-42,0x1,0 3006-ORV-48,1x1,6



1007
3007

BSP

Draadplug
Bouchon fileté
Threaded plug
Verschußschraube



1008
3008

METR.

Draadplug
Bouchon fileté
Threaded plug
Verschußschraube

DIN	2353	BAR ¹⁾			Ø F	Ø D	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
		400		400	G1/8	14	1007-02		3007-02
		400		400	G1/4	19	1007-04		3007-04
		400		400	G3/8	22	1007-06		3007-06
		400		400	G1/2	27	1007-08		3007-08
		400		400	G3/4	32	1007-12		3007-12
		400		400	G1	40	1007-16		3007-16
		250		250	G1.1/4	50	1007-20		3007-20
		250		250	G1.1/2	55	1007-24		3007-24

1) = PB, F = 2,5 1.34 & 1.35

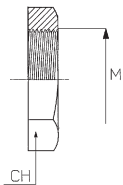
DIN	2353	BAR ¹⁾			Ø F	Ø D	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
		400		400	M10x1	14	1008-M10		3008-M10
		400		400	M12x1,5	17	1008-M12		3008-M12
		400		400	M14x1,5	19	1008-M14		3008-M14
		400		400	M16x1,5	22	1008-M16		3008-M16
		400		400	M18x1,5	24	1008-M18		3008-M18
		400		400	M22x1,5	27	1008-M22		3008-M22
		400		400	M26x1,5	32	1008-M26		3008-M26
		400		400	M27x2	32	1008-M27		3008-M27
		400		400	M33x2	40	1008-M33		3008-M33
		250		250	M42x2	50	1008-M42		3008-M42
		250		250	M48x2	55	1008-M48		3008-M48

1) = PB, F = 2,5 1.34 & 1.35

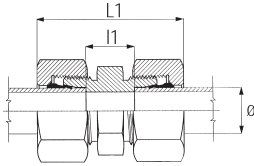
1009
2009
3009

METR.

Contra-moer
Contre-écrou
Lock nut
Gegenmutter

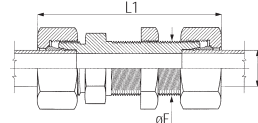


DIN	2353	BAR			Ø M	CH	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6				M12x1,5	17	1009-06L		3009-06L
	8				M14x1,5	19	1009-08L		3009-08L
	10				M16x1,5	22	1009-10L	2009-10L	3009-10L
	12				M18x1,5	24	1009-12L	2009-12L	3009-12L
	15				M22x1,5	30	1009-15L	2009-15L	3009-15L
	18				M26x1,5	36	1009-18L		3009-18L
	22				M30x2	41	1009-22L		3009-22L
	28				M36x2	46	1009-28L		3009-28L
S	35				M45x2	55	1009-35L		3009-35L
	42				M52x2	65	1009-42L		3009-42L
	6				M14x1,5	19	1009-06S	2009-06S	3009-06S
	8				M16x1,5	22	1009-08S	2009-08S	3009-08S
	10				M18x1,5	24	1009-10S	2009-10S	3009-10S
	12				M20x1,5	27	1009-12S	2009-12S	3009-12S
	14				M22x1,5	30	1009-14S		3009-14S
	16				M24x1,5	32	1009-16S		3009-16S
	20				M30x2	41	1009-20S		3009-20S
	25				M36x2	46	1009-25S		3009-25S
30				M42x2	50	1009-30S		3009-30S	



**1010
2010
3010**

**Rechte koppeling
Union double
Straight coupling
Gerade Verschraubung**

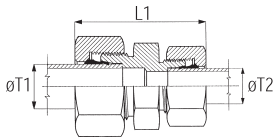


**1011
2011
3011**

**Rechte schotschroefkoppeling
Union double de cloison
Straight screw bulkhead coupling
Gerade Schott Verschraubung**

DIN 2353	Ø	BAR			L1	l1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
LL	4	100		100	31	12	1010-04LL		3010-04LL
	6	100		100	32	9	1010-06LL		3010-06LL
	8	100		100	35	12	1010-08LL		3010-08LL
L	6	315	160	250	39	10	1010-06L	2010-06L	3010-06L
	8	315	160	250	40	11	1010-08L	2010-08L	3010-08L
	10	315	160	250	42	13	1010-10L	2010-10L	3010-10L
	12	315	160	250	43	14	1010-12L	2010-12L	3010-12L
	15	315	160	250	46	16	1010-15L	2010-15L	3010-15L
	18	315	160	160	48	16	1010-18L	2010-18L	3010-18L
	22	160	80	160	52	20	1010-22L	2010-22L	3010-22L
	28	160	80	100	54	21	1010-28L	2010-28L	3010-28L
	35	160	80	100	63	20	1010-35L	2010-35L	3010-35L
	42	160	80	100	66	21	1010-42L	2010-42L	3010-42L
S	6	630	250	630	45	16	1010-06S	2010-06S	3010-06S
	8	630	250	630	47	18	1010-08S	2010-08S	3010-08S
	10	630	250	630	49	17	1010-10S	2010-10S	3010-10S
	12	630	250	630	51	19	1010-12S	2010-12S	3010-12S
	14	630	250	630	57	22	1010-14S	2010-14S	3010-14S
	16	400	180	400	57	21	1010-16S	2010-16S	3010-16S
	20	400	180	400	66	23	1010-20S	2010-20S	3010-20S
	25	400	180	400	74	26	1010-25S	2010-25S	3010-25S
	30	400	180	250	80	27	1010-30S	2010-30S	3010-30S
	38	315	120	250	90	29	1010-38S	2010-32S	3010-38S

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315	160	250	M12x1,5	64	1011-06L	2011-06L	3011-06L
	8	315	160	250	M14x1,5	65	1011-08L	2011-08L	3011-08L
	10	315	160	250	M16x1,5	68	1011-10L	2011-10L	3011-10L
	12	315	160	250	M18x1,5	69	1011-12L	2011-12L	3011-12L
	15	315	160	250	M22x1,5	73	1011-15L	2011-15L	3011-15L
	18	315	160	160	M26x1,5	79	1011-18L		3011-18L
	22	160		160	M30x2	84	1011-22L		3011-22L
	28	160		100	M36x2	87	1011-28L		3011-28L
	35	160		100	M45x2	98	1011-35L		3011-35L
	42	160		100	M52x2	101	1011-42L		3011-42L
S	6	630	250	630	M14x1,5	71	1011-06S	2011-06S	3011-06S
	8	630	250	630	M16x1,5	72	1011-08S	2011-08S	3011-08S
	10	630	250	630	M18x1,5	77	1011-10S	2011-10S	3011-10S
	12	630	250	630	M20x1,5	78	1011-12S	2011-12S	3011-12S
	14	630		630	M22x1,5	85	1011-14S		3011-14S
	16	400		400	M24x1,5	85	1011-16S		3011-16S
	20	400		400	M30x2	94	1011-20S		3011-20S
	25	400		400	M36x2	103	1011-25S		3011-25S
	30	400		250	M42x2	112	1011-30S		3011-30S
	38	315		250	M52x2	113	1011-38S		3011-38S

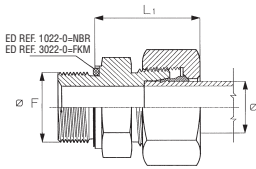


**1012
3012**

**Rechte verloopkoppeling
Union de réduction
Straight reducing coupling
Reduzierschraubung**

DIN 2353	T1	BAR			T2	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	8	315		250	6	41	1012-08x06L		3012-08x06L
	10	315		250	6	42	1012-10x06L		3012-10x06L
	10	315		250	8	42	1012-10x08L		3012-10x08L
	12	315		250	8	42	1012-12x08L		3012-12x08L
	12	315		250	10	44	1012-12x10L		3012-12x10L
	15	315		250	10	45	1012-15x10L		3012-15x10L
	15	315		250	12	45	1012-15x12L		3012-15x12L
	18	315		160	12	47	1012-18x12L		3012-18x12L
	18	315		160	15	48	1012-18x15L		3012-18x15L
	22	160		160	15	50	1012-22x15L		3012-22x15L
	22	160		160	18	51	1012-22x18L		3012-22x18L
	28	160		100	18	52	1012-28x18L		3012-28x18L
	28	160		100	22	54	1012-28x22L		3012-28x22L
	35	160		100	22	59	1012-35x22L		3012-35x22L
	35	160		100	28	59	1012-35x28L		3012-35x28L
	42	160		100	28	62	1012-42x28L		3012-42x28L
	42	160		100	35	66	1012-42x35L		3012-42x35L
	S	8	630		630	6	48	1012-08x06S	
10		630		630	6	49	1012-10x06S		3012-10x06S
10		630		630	8	49	1012-10x08S		3012-10x08S
12		630		630	6	51	1012-12x06S		3012-12x06S
12		630		630	8	51	1012-12x08S		3012-12x08S
12		630		630	10	52	1012-12x10S		3012-12x10S
14		630		630	10	55	1012-14x10S		3012-14x10S
14		630		630	12	55	1012-14x12S		3012-14x12S

DIN 2353	Ø	BAR			T2	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
S	16	400		400	12	55	1012-16x12S		3012-16x12S
	16	400		400	14	58	1012-16x14S		3012-16x14S
	20	400		400	12	59,5	1012-20x12S		3012-20x12S
	20	400		400	14	63	1012-20x14S		3012-20x14S
	20	400		400	16	63	1012-20x16S		3012-20x16S
	25	400		400	16	68	1012-25x16S		3012-25x16S
	25	400		400	20	71	1012-25x20S		3012-25x20S
	30	400		400	20	74	1012-30x20S		3012-30x20S
	30	400		400	25	77	1012-30x25S		3012-30x25S
	38	315		315	25	84	1012-38x25S		3012-38x25S
38	315		315	30	87	1012-38x30S		3012-38x30S	



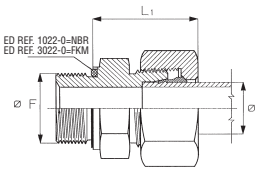
ED REF. 1022-0=HBR
ED REF. 3022-0=FKM



1013 DE
3013 DE
BSPP
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Union mâle
Male stud coupling
Gerade Einschraubverschraubung

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	G1/8	23	1013-06LRDE		3013-06LRDE
	6	315		250	G1/4	25	1013-06LRDE1/4		3013-06LRDE1/4
	8	315		250	G1/8	24,5	1013-08LRDE1/8		3013-08LRDE1/8
	8	315		250	G1/4	25	1013-08LRDE		3013-08LRDE
	8	315		250	G3/8	26,5	1013-08LRDE3/8		3013-08LRDE3/8
	10	315		250	G1/4	26	1013-10LRDE		3013-10LRDE
	10	315		250	G3/8	27,5	1013-10LRDE3/8		3013-10LRDE3/8
	10	315		250	G1/2	28	1013-10LRDE1/2		3013-10LRDE1/2
	12	315		250	G1/4	27,5	1013-12LRDE1/4		3013-12LRDE1/4
	12	315		250	G3/8	27,5	1013-12LRDE		3013-12LRDE
	12	315		250	G1/2	27,5	1013-12LRDE1/2		3013-12LRDE1/2
	15	315		250	G3/8	28,5	1013-15LRDE3/8		3013-15LRDE3/8
	15	315		250	G1/2	29	1013-15LRDE		3013-15LRDE
	18	315		160	G1/2	31	1013-18LRDE		3013-18LRDE
	18	315		160	G3/4	31	1013-18LRDE3/4		3013-18LRDE3/4
	22	160		160	G3/4	33	1013-22LRDE		3013-22LRDE
	28	160		100	G1	34	1013-28LRDE		3013-28LRDE
	35	160		100	G1.1/4	39	1013-35LRDE		3013-35LRDE
	42	160		100	G1.1/2	42	1013-42LRDE		3013-42LRDE

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
S	6	630		630	G1/4	28	1013-06SRDE		3013-06SRDE
	8	630		630	G1/4	30	1013-08SRDE		3013-08SRDE
	8	630		630	G3/8	30,5	1013-08SRDE3/8		3013-08SRDE3/8
	10	630		630	G1/4	30,5	1013-10SRDE1/4		3013-10SRDE1/4
	10	630		630	G3/8	31	1013-10SRDE		3013-10SRDE
	10	630		630	G1/2	33,5	1013-10SRDE1/2		3013-10SRDE1/2
	12	630		630	G1/4	32,5	1013-12SRDE1/4		3013-12SRDE1/4
	12	630		630	G3/8	33	1013-12SRDE		3013-12SRDE
	12	630		630	G1/2	33,5	1013-12SRDE1/2		3013-12SRDE1/2
	14	630		630	G1/2	37	1013-14SRDE		3013-14SRDE
	16	400		400	G3/8	36,5	1013-16SRDE3/8		3013-16SRDE3/8
	16	400		400	G1/2	37	1013-16SRDE		3013-16SRDE
	16	400		400	G3/4	39	1013-16SRDE3/4		3013-16SRDE3/4
	20	400		400	G3/4	42	1013-20SRDE		3013-20SRDE
	20	400		400	G1	42	1013-20SRDE1		3013-20SRDE1
	25	400		400	G3/4	47	1013-25SRDE3/4		3013-25SRDE3/4
	25	400		400	G1	47	1013-25SRDE		3013-25SRDE
	30	400		250	G1.1/4	50	1013-30SRDE		3013-30SRDE
	38	315		250	G1.1/2	57	1013-38SRDE		3013-38SRDE



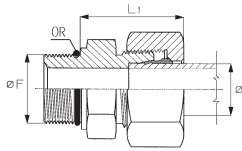
ED REF. 1022-0=HBR
ED REF. 3022-0=FKM



1013 DE
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Male stud coupling
Gerade Einschraubverschraubung

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	M10x1	23	1013-06LMDE		3013-06LMDE
	8	315		250	M12x1,5	25	1013-08LMDE		3013-08LMDE
	10	315		250	M14x1,5	26	1013-10LMDE		3013-10LMDE
	10	315		250	M16x1,5	27,5	1013-10LMDE16		3013-10LMDE16
	10	315		250	M18x1,5	27,5	1013-10LMDE18		3013-10LMDE18
	12	315		250	M16x1,5	27	1013-12LMDE		3013-12LMDE
	12	315		250	M18x1,5	33	1013-12LMDE18		3013-12LMDE18
	12	315		250	M22x1,5	28,5	1013-12LMDE22		3013-12LMDE22
	15	315		250	M18x1,5	29	1013-15LMDE		3013-15LMDE
	15	315		250	M22x1,5	31	1013-15LMDE22		3013-15LMDE22
	18	315		160	M22x1,5	31	1013-18LMDE		3013-18LMDE
	22	160		160	M26x1,5	33	1013-22LMDE		3013-22LMDE
	28	160		100	M33x2	34	1013-28LMDE		3013-28LMDE
	35	160		100	M42x2	39	1013-35LMDE		3013-35LMDE
	42	160		100	M48x2	42	1013-42LMDE		3013-42LMDE

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
S	6	630		630	M12x1,5	28	1013-06SMDE		3013-06SMDE
	8	630		630	M14x1,5	30	1013-08SMDE		3013-08SMDE
	10	630		630	M16x1,5	31	1013-10SMDE		3013-10SMDE
	12	630		630	M18x1,5	33	1013-12SMDE		3013-12SMDE
	14	630		630	M20x1,5	37	1013-14SMDE		3013-14SMDE
	16	400		400	M22x1,5	37	1013-16SMDE		3013-16SMDE
	20	400		400	M27x2	42	1013-20SMDE		3013-20SMDE
	25	400		400	M33x2	47	1013-25SMDE		3013-25SMDE
	30	400		250	M42x2	50	1013-30SMDE		3013-30SMDE
	38	315		250	M48x2	57	1013-38SMDE		3013-38SMDE



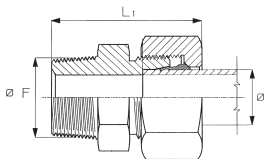
1013
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Rechte inschroefkoppeling
Union mâle
Male stud coupling
Gerade Einschraubverschraubung



DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
L	8	315		250	7/16-20UNF	28	1013-08-04L		3013-08-04L	
	10	315		250	7/16-20UNF	29	1013-10-04L		3013-10-04L	
	12	315		250	7/16-20UNF	29	1013-12-04L			
	12	315		250	9/16-18UNF	27	1013-12-06L		3013-12-06L	
	12	315		250	3/4-16UNF	28	1013-12-08L		3013-12-08L	
	12	315		250	7/8-14UNF	29	1013-12-10L		3013-12-10L	
	15	315		250	3/4-16UNF	29	1013-15-08L		3013-15-08L	
	15	315		250	7/8-14UNF	30,5	1013-15-10L			
	18	315		160	3/4-16UNF	29,5	1013-18-08L		3013-18-08L	
	18	315		160	7/8-14UNF	29,5	1013-18-10L		3013-18-10L	
		22	160		160	7/8-14UNF	33	1013-22-10L		3013-22-10L
		22	160		160	1.1/16-12UN	33	1013-22-12L		3013-22-12L
		22	160		160	1.5/16-12UN	34	1013-22-16L		3013-22-16L
		28	160		100	1.1/16-12UN	34	1013-28-12L		3013-28-12L
		28	160		100	1.5/16-12UN	34	1013-28-16L		3013-28-16L
		35	160		100	1.5/16-12UN	39	1013-35-16L		3013-35-16L
		35	160		100	1.5/8-12UN	39	1013-35-20L		3013-35-20L
		42	160		100	1.5/8-12UN	42	1013-42-20L		3013-42-20L

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
S	8	630		630	7/16-20UNF	30	1013-08-04S		3013-08-04S	
	10	630		630	9/16-18UNF	31	1013-10-06S		3013-10-06S	
	12	630		630	9/16-18UNF	31	1013-12-06S		3013-12-06S	
	12	630		630	3/4-16UNF	34	1013-12-08S		3013-12-08S	
		16	400		400	3/4-16UNF	34	1013-16-08S		3013-16-08S
		16	400		400	7/8-14UNF	37	1013-16-10S		3013-16-10S
		20	400		400	3/4-16UNF	42	1013-20-08S		3013-20-08S
		20	400		400	7/8-14UNF	42	1013-20-10S		3013-20-10S
		20	400		400	1.1/16-12UN	42	1013-20-12S		3013-20-12S
		25	400		400	1.1/16-12UN	47	1013-25-12S		3013-25-12S
		25	400		400	1.5/16-12UN	47	1013-25-16S		3013-25-16S
		30	400		250	1.5/16-12UN	50	1013-30-16S		3013-30-16S
30		400		250	1.5/8-12UN	50	1013-30-20S		3013-30-20S	
38		315		250	1.5/8-12UN	42	1013-38-20S		3013-38-20S	

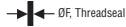
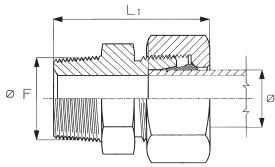
1014
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Union mâle
Male stud coupling
Gerade Einschraubverschraubung



DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
LL	4	100		100	R1/8	26	1014-04LLR		3014-04LLR	
	6	100		100	R1/8	26	1014-06LLR		3014-06LLR	
	8	100		100	R1/8	28	1014-08LLR		3014-08LLR	
	8	100		100	R1/4	33	1014-08LLR1/4		3014-08LLR1/4	
L	6	315		250	R1/8	32	1014-06LR		3014-06LR	
	6	315		250	R1/4	36	1014-06LR1/4			
	8	315		250	R1/4	36	1014-08LR		3014-08LR	
	8	315		250	R3/8	37	1014-08LR3/8			
	10	315		250	R1/4	37	1014-10LR		3014-10LR	
	10	315		250	R3/8	38	1014-10LR3/8			
	12	315		250	R1/4	38	1014-12LR1/4		3014-12LR1/4	
	12	315		250	R3/8	38	1014-12LR		3014-12LR	
	12	315		250	R1/2	41	1014-12LR1/2		3014-12LR1/2	
	15	315		250	R3/8	39	1014-15LR3/8		3014-15LR3/8	
	15	315		250	R1/2	42	1014-15LR		3014-15LR	
	18	315		160	R1/2	44	1014-18LR		3014-18LR	
		22	160		160	R3/4	48	1014-22LR		3014-22LR
		28	160		100	R1	51	1014-28LR		
		35	160		100	R1.1/4	58	1014-35LR		
		42	160		100	R1.1/2	61	1014-42LR		

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
S	6	630 ¹⁾		630 ¹⁾	R1/4	41	1014-06SR			
	8	630 ¹⁾		630 ¹⁾	R1/4	41	1014-08SR			
	10	630 ¹⁾		630 ¹⁾	R3/8	42	1014-10SR			
	12	630 ¹⁾		630 ¹⁾	R3/8	44	1014-12SR			
	12	630 ¹⁾		630 ¹⁾	R1/2	47,5	1014-12SR1/2			
	14	630 ¹⁾		630 ¹⁾	R1/2	50	1014-14SR			
		16	400 ¹⁾		400 ¹⁾	R1/2	50	1014-16SR		
		20	400 ¹⁾		400 ¹⁾	R3/4	57	1014-20SR		
		25	400 ¹⁾		400 ¹⁾	R1	64	1014-25SR		
		30	250 ¹⁾		250 ¹⁾	R1.1/4	68	1014-30SR		
		38	250 ¹⁾		250 ¹⁾	R1.1/2	76	1014-38SR		

1) = PB, F = 2.5 1.34 & 1.35



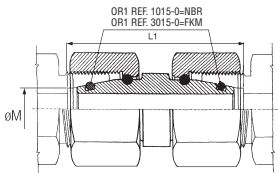
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Union mâle
Male stud coupling
Gerade Einschraubverschraubung**

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF.	REF.	
LL	4	100		100	1/8NPTF	28	1014-04x1/8LL			
	6	100		100	1/8NPTF	28	1014-06x1/8LL			
	8	100		100	1/8NPTF	30	1014-08x1/8LL			
L	6	315		250	1/8NPTF	32	1014-06x1/8L	2014-06x1/8L	3014-06x1/8L	
	6	315		250	1/4NPTF	38	1014-06x1/4L		3014-06x1/4L	
	6	315		250	1/2NPTF	44	1014-06x1/2L		3014-06x1/2L	
	8	315	160	250	1/4NPTF	38	1014-08x1/4L	2014-08x1/4L	3014-08x1/4L	
	8	315	160	250	3/8NPTF	39	1014-08x3/8L	2014-08x3/8L	3014-08x3/8L	
	10	315		250	3/8NPTF	39,5	1014-10x3/8L		3014-10x3/8L	
	12	315	160	250	1/4NPTF	40	1014-12x1/4L	2014-12x1/4L	3014-12x1/4L	
	12	315	160	250	3/8NPTF	40	1014-12x3/8L	2014-12x3/8L	3014-12x3/8L	
	12	315	160	250	1/2NPTF	45	1014-12x1/2L	2014-12x1/2L	3014-12x1/2L	
	15	315		250	3/8NPTF	41,5	1014-15x3/8L		3014-15x3/8L	
	15	315		250	1/2NPTF	46	1014-15x1/2L		3014-15x1/2L	
	18	315		160	1/2NPTF	48	1014-18x1/2L		3014-18x1/2L	
	18	315		160	3/4NPTF	48,5	1014-18x3/4L		3014-18x3/4L	
		22	160		160	3/4NPTF	50	1014-22x3/4L		3014-22x3/4L
		28	160		100	1NPTF	56	1014-28x1L		3014-28x1L
		35	160		100	1.1/4NPTF	62	1014-35x1.1/4L		3014-35x1.1/4L
		42	160		100	1.1/2NPTF	65	1014-42x1.1/2L		3014-42x1.1/2L

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF.	REF.	
S	6	630		630	1/4NPTF	43	1014-06x1/4S		3014-06x1/4S	
	8	630		630	1/4NPTF	43	1014-08x1/4S		3014-08x1/4S	
	10	630		630	3/8NPTF	44	1014-10x3/8S		3014-10x3/8S	
	10	630		630	1/4NPTF	44	1014-10x1/4S		3014-10x1/4S	
	12	630		630	3/8NPTF	46	1014-12x3/8S		3014-12x3/8S	
	12	630		630	1/2NPTF	51	1014-12x1/2S		3014-12x1/2S	
	14	630		630	1/2NPTF	54	1014-14x1/2S		3014-14x1/2S	
	S	16	400		400	1/2NPTF	54	1014-16x1/2S		3014-16x1/2S
		20	400		400	3/4NPTF	59	1014-20x3/4S		3014-20x3/4S
		25	400		400	1NPTF	69	1014-25x1S		3014-25x1S
		30	400		250	1NPTF	66,5	1014-30x1S		3014-30x1S
		30	400		250	1.1/4NPTF	73	1014-30x1.1/4S		3014-30x1.1/4S
		38	315		250	1.1/2NPTF	80	1014-38x1.1/2S		3014-38x1.1/2S



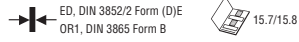
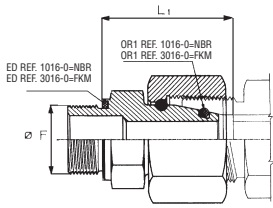
1015-0

3015-0

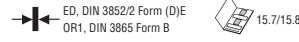
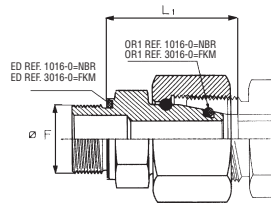
**Rechte schroefverbinding
Union double
Straight threaded coupling
Gerade Dopperverschraubung**

DIN 2353	Ø	BAR			ØM	L1	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF.	REF.	
L	6	315		250	M12x1,5	35	1015-0-06L		3015-0-06L	
	8	315		250	M14x1,5	35	1015-0-08L		3015-0-08L	
	10	315		250	M16x1,5	33,4	1015-0-10L		3015-0-10L	
	12	315		250	M18x1,5	37	1015-0-12L		3015-0-12L	
	15	315		250	M22x1,5	37	1015-0-15L		3015-0-15L	
	18	315		160	M26x1,5	39	1015-0-18L		3015-0-18L	
		22	160		160	M30x2	41,4	1015-0-22L		3015-0-22L
		28	160		100	M36x2	44,4	1015-0-28L		3015-0-28L
		35	160		100	M45x2	52,8	1015-0-35L		3015-0-35L
	42	160		100	M52x2	53,6	1015-0-42L		3015-0-42L	
S	6	630		630	M14x1,5	35	1015-0-06S		3015-0-06S	
	8	630		630	M16x1,5	34	1015-0-08S		3015-0-08S	
	10	630		630	M18x1,5	38,4	1015-0-10S		3015-0-10S	
	12	630		630	M20x1,5	37	1015-0-12S		3015-0-12S	
	14	630		630	M22x1,5	41	1015-0-14S		3015-0-14S	
	S	16	400		400	M24x1,5	43	1015-0-16S		3015-0-16S
		20	400		400	M30x2	51,5	1015-0-20S		3015-0-20S
		25	400		400	M36x2	57,5	1015-0-25S		3015-0-25S
		30	400		250	M42x2	62,6	1015-0-30S		3015-0-30S
		38	315		250	M52x2	67,8	1015-0-38S		3015-0-38S

ATZ Aandrijftechniek B.V. (026-3112611)



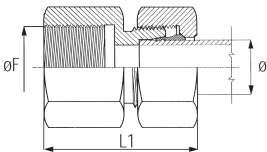
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3016-0 DE
BSPP
 Rechte instelbare koppeling
 Adapteur orientable
 Straight swivel coupling
 Gerade einstellbare Verschraubung



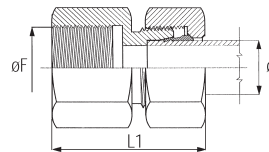
1016-0 DE
3016-0 DE
METR.
 Rechte instelbare koppeling
 Adapteur orientable
 Straight swivel coupling
 Gerade einstellbare Verschraubung

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	G1/8	24,5	1016-0-06LRDE		3016-0-06LRDE
	8	315		250	G1/4	26,5	1016-0-08LRDE		3016-0-08LRDE
	10	315		250	G1/4	27,5	1016-0-10LRDE		3016-0-10LRDE
	12	315		250	G3/8	34	1016-0-12LRDE		3016-0-12LRDE
	15	315		250	G1/2	32	1016-0-15LRDE		3016-0-15LRDE
	18	315		160	G1/2	31,5	1016-0-18LRDE		3016-0-18LRDE
	22	160		160	G3/4	32	1016-0-22LRDE		3016-0-22LRDE
	28	160		100	G1	35	1016-0-28LRDE		3016-0-28LRDE
	35	160		100	G1.1/4	42,5	1016-0-35LRDE		3016-0-35LRDE
	42	160		100	G1.1/2	46,5	1016-0-42LRDE		3016-0-42LRDE
S	6	630		630	G1/4	27	1016-0-06SRDE		3016-0-06SRDE
	8	630		630	G1/4	29,5	1016-0-08SRDE		3016-0-08SRDE
	10	630		630	G3/8	32	1016-0-10SRDE		3016-0-10SRDE
	12	630		630	G3/8	34	1016-0-12SRDE		3016-0-12SRDE
	14	630		630	G1/2	36,5	1016-0-14SRDE		3016-0-14SRDE
	16	400		400	G1/2	37	1016-0-16SRDE		3016-0-16SRDE
	20	400		400	G3/4	42,5	1016-0-20SRDE		3016-0-20SRDE
	25	400		400	G1	47,5	1016-0-25SRDE		3016-0-25SRDE
	30	400		250	G1.1/4	51	1016-0-30SRDE		3016-0-30SRDE
	38	315		250	G1.1/2	59,5	1016-0-38SRDE		3016-0-38SRDE

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	M10x1	24,5	1016-0-06LMDE		3016-0-06LMDE
	8	315		250	M12x1,5	26,5	1016-0-08LMDE		3016-0-08LMDE
	10	315		250	M14x1,5	27,5	1016-0-10LMDE		3016-0-10LMDE
	12	315		250	M16x1,5	30,5	1016-0-12LMDE		3016-0-12LMDE
	15	315		250	M18x1,5	31,5	1016-0-15LMDE		3016-0-15LMDE
	18	315		160	M22x1,5	31,5	1016-0-18LMDE		3016-0-18LMDE
	22	160		160	M26x1,5	32,5	1016-0-22LMDE		3016-0-22LMDE
	28	160		100	M33x2	35	1016-0-28LMDE		3016-0-28LMDE
	35	160		100	M42x2	42,5	1016-0-35LMDE		3016-0-35LMDE
	42	160		100	M48x2	46,5	1016-0-42LMDE		3016-0-42LMDE
S	6	630		630	M12x1,5	27	1016-0-06SMDE		3016-0-06SMDE
	8	630		630	M14x1,5	29,5	1016-0-08SMDE		3016-0-08SMDE
	10	630		630	M16x1,5	32	1016-0-10SMDE		3016-0-10SMDE
	12	630		630	M18x1,5	34	1016-0-12SMDE		3016-0-12SMDE
	14	630		630	M20x1,5	36,5	1016-0-14SMDE		3016-0-14SMDE
	16	400		400	M22x1,5	37	1016-0-16SMDE		3016-0-16SMDE
	20	400		400	M27x2	43	1016-0-20SMDE		3016-0-20SMDE
	25	400		400	M33x2	48	1016-0-25SMDE		3016-0-25SMDE
	30	400		250	M42x2	51	1016-0-30SMDE		3016-0-30SMDE
	38	315		250	M48x2	60	1016-0-38SMDE		3016-0-38SMDE



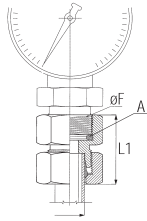
1018
2018
3018
BSPP
 Rechte opschroefkoppeling
 Union femelle
 Female stud coupling
 Gerade Aufschraubverschraubung



1018
3018
METR.
 Rechte opschroefkoppeling
 Union femelle
 Female stud coupling
 Gerade Aufschraubverschraubung

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	G1/8	34	1018-06LR	2018-06LR	3018-06LR
	8	315		250	G1/4	39	1018-08LR	2018-08LR	3018-08LR
	10	315		250	G1/4	40	1018-10LR	2018-10LR	3018-10LR
	10	315		250	G3/8	40	1018-10LR3/8		3018-10LR3/8
	10	315		250	G1/2	45	1018-10LR1/2		
	12	315		250	G1/4	41	1018-12LR1/4		
	12	315		250	G3/8	41	1018-12LR	2018-12LR	3018-12LR
	12	315		250	G1/2	44	1018-12LR1/2		3018-12LR1/2
	15	315		250	G1/2	45	1018-15LR	2018-15LR	3018-15LR
	18	315		160	G1/2	46	1018-18LR	2018-18LR	3018-18LR
S	22	160		160	G3/4	51	1018-22LR		3018-22LR
	28	160		100	G1	53,5	1018-28LR		3018-28LR
	35	160		100	G1.1/4	60,5	1018-35LR		3018-35LR
	42	160		100	G1.1/2	63,5	1018-42LR		3018-42LR
	6	630		630	G1/4	41	1018-06SR		3018-06SR
	8	630		630	G1/4	41	1018-08SR		3018-08SR
	10	630		630	G3/8	42	1018-10SR		3018-10SR
	12	630		630	G3/8	42	1018-12SR		3018-12SR
	14	630		630	G1/2	50	1018-14SR	2018-14SR	3018-14SR
	16	400		400	G1/2	50	1018-16SR	2018-16SR	3018-16SR
20	400		400	G3/4	56	1018-20SR	2018-20SR	3018-20SR	
25	400		400	G1	61,5	1018-25SR		3018-25SR	
30	400		250	G1.1/4	68,5	1018-30SR		3018-30SR	
38	315		250	G1.1/2	74,5	1018-38SR		3018-38SR	

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	M10x1	34,5	1018-06LM		3018-06LM
	8	315		250	M12x1,5	39	1018-08LM		3018-08LM
	10	315		250	M14x1,5	40	1018-10LM		3018-10LM
	12	315		250	M16x1,5	41	1018-12LM		3018-12LM
	15	315		250	M18x1,5	42	1018-15LM		3018-15LM
	18	315		160	M22x1,5	45	1018-18LM		3018-18LM
	22	160		160	M26x1,5	50	1018-22LM		3018-22LM
	28	160		100	M33x2	53	1018-28LM		3018-28LM
	35	160		100	M42x2	60	1018-35LM		3018-35LM
	42	160		100	M48x2	63	1018-42LM		3018-42LM
S	6	630		630	M12x1,5	41	1018-06SM		3018-06SM
	8	630		630	M14x1,5	41	1018-08SM		3018-08SM
	10	630		630	M16x1,5	43	1018-10SM		3018-10SM
	12	630		630	M18x1,5	43	1018-12SM		3018-12SM
	14	630		630	M20x1,5	49	1018-14SM		3018-14SM
	16	400		400	M22x1,5	49	1018-16SM		3018-16SM
	20	400		400	M27x2	56	1018-20SM		3018-20SM
	25	400		400	M33x2	61	1018-25SM		3018-25SM
	30	400		250	M42x2	68	1018-30SM		3018-30SM
	38	315		250	M48x2	74	1018-38SM		3018-38SM

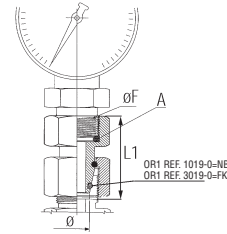


← A, DIN 3852 Form B 15.7/15.8

**1019
2019
3019**

BSPP

**Manometer-koppeling
Raccord pour manomètre
Fem. pressure gauge coupling
Manometerverschraubung**



← A, DIN 3852 Form B OR1, DIN 3865 Form B 15.7/15.8

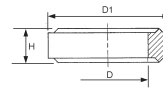
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3019-0**

BSPP

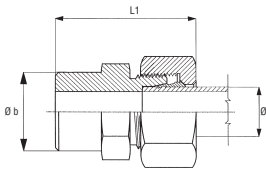
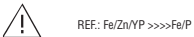
**Manometer-koppeling
Raccord pour manomètre
Fem. pressure gauge coupling
Manometerverschraubung**

DIN 2353	Ø	BAR			ØF	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315	160	250	G1/4	37	1019-06LR	2019-06LR	3019-06LR
	8	315	160	250	G1/4	37	1019-08LR	2019-08LR	3019-08LR
	10	315	160	250	G1/4	38	1019-10LR	2019-10LR	3019-10LR
	12	315	160	250	G1/4	38	1019-12LR	2019-12LR	3019-12LR
S	6	630	250	630	G1/2	46	1019-06SR	2019-06SR	3019-06SR
	8	630	250	630	G1/2	46	1019-08SR	2019-08SR	3019-08SR
	10	630	250	630	G1/2	47	1019-10SR	2019-10SR	3019-10SR
	12	630	250	630	G1/2	47	1019-12SR	2019-12SR	3019-12SR

DIN 2353	Ø	BAR			Ø F	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	G1/4	36,5	1019-0-06LR		3019-0-06LR
	8	315		250	G1/4	36,5	1019-0-08LR		3019-0-08LR
	10	315		250	G1/4	36	1019-0-10LR		3019-0-10LR
	12	315		250	G1/4	37,5	1019-0-12LR		3019-0-12LR
S	6	630		630	G1/2	43,5	1019-0-06SR		3019-0-06SR
	8	630		630	G1/2	43	1019-0-08SR		3019-0-08SR
	10	630		630	G1/2	45	1019-0-10SR		3019-0-10SR
	12	630		630	G1/2	44,5	1019-0-12SR		3019-0-12SR

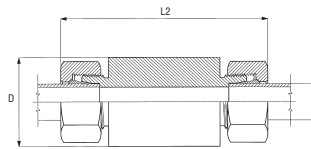
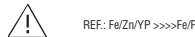


DIN 2353	BAR			Ø F	D1	Fe/P	Cu/Zn	AISI 316Ti
	Fe	Cu/Zn	316Ti			REF.	REF.	REF.
L	315	160	250	G1/4	11,3	1019-00LR	2019-00LR	3019-00LR
S	630	250	630	G1/2	18,5	1019-00SR	2019-00SR	3019-00SR



**1020
3020**

**Aanlaskoppeling
Union à souder
Male weld stud coupling
Anschweißverschraubung**

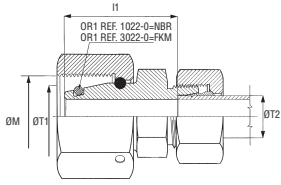


**1021
3021**

**Rechte lasschotkoppeling
Union de cloison à souder
Straight weld bulkhead coupling
Einschweißschottverschraubung**

DIN 2353	Ø	BAR			L1	Øb	Fe/P	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	29	10	1020-06L		3020-06L
	8	315		250	31	12	1020-08L		3020-08L
	10	315		250	33	14	1020-10L		3020-10L
	12	315		250	33	16	1020-12L		3020-12L
	15	315		250	37	19	1020-15L		3020-15L
	18	315		160	40	22	1020-18L		3020-18L
	22	160		160	45	27	1020-22L		3020-22L
	28	160		100	47	32	1020-28L		3020-28L
S	35	160		100	54	40	1020-35L		3020-35L
	42	160		100	58	46	1020-42L		3020-42L
	6	630		630	34	11	1020-06S		3020-06S
	8	630		630	36	13	1020-08S		3020-08S
	10	630		630	39	15	1020-10S		3020-10S
	12	630		630	41	17	1020-12S		3020-12S
	14	630		630	45	19	1020-14S		3020-14S
	16	400		400	45	21	1020-16S		3020-16S
	20	400		400	51	26	1020-20S		3020-20S
	25	400		400	56	31	1020-25S		3020-25S
30	400		250	62	36	1020-30S		3020-30S	
	38	315		250	69	44	1020-38S		3020-38S

DIN 2353	Ø	BAR			L2	D	Fe/P	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	85	18	1021-06L		3021-06L
	8	315		250	85	20	1021-08L		3021-08L
	10	315		250	87	22	1021-10L		3021-10L
	12	315		250	87	25	1021-12L		3021-12L
	15	315		250	100	28	1021-15L		3021-15L
	18	315		160	101	32	1021-18L		3021-18L
	22	160		160	105	36	1021-22L		3021-22L
	28	160		100	106	40	1021-28L		3021-28L
S	35	160		100	114	50	1021-35L		3021-35L
	42	160		100	115	60	1021-42L		3021-42L
	6	630		630	89	20	1021-06S		3021-06S
	8	630		630	89	22	1021-08S		3021-08S
	10	630		630	91	25	1021-10S		3021-10S
	12	630		630	91	28	1021-12S		3021-12S
	14	630		630	107	30	1021-14S		3021-14S
	16	400		400	107	35	1021-16S		3021-16S
	20	400		400	114	38	1021-20S		3021-20S
	25	400		400	120	45	1021-25S		3021-25S
30	400		250	126	50	1021-30S		3021-30S	
	38	315		250	133	60	1021-38S		3021-38S



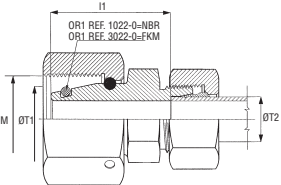
1022-0
2022
3022-0

L

Overgangskoppeling compl.
Adaptateur de réduction compl.
Pre-assembl. reducing adaptor
Reduzierschraubung komplett

DIN 2353	T1	BAR			ØM	T2	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF. *	REF.	
L	8	315	160	250	M14x1,5	6	1022-0-08-06L	2022-08-06L	3022-0-08-06L	
	10	315	250	250	M16x1,5	6	1022-0-10-06L		3022-0-10-06L	
	10	315	250	250	M16x1,5	8	1022-0-10-08L		3022-0-10-08L	
	12	315	250	250	M18x1,5	6	1022-0-12-06L		3022-0-12-06L	
	12	315	250	250	M18x1,5	8	1022-0-12-08L		3022-0-12-08L	
	12	315	250	250	M18x1,5	10	1022-0-12-10L		3022-0-12-10L	
	15	315	250	250	M22x1,5	6	1022-0-15-06L		3022-0-15-06L	
	15	315	250	250	M22x1,5	8	1022-0-15-08L		3022-0-15-08L	
	15	315	160	250	M22x1,5	10	1022-0-15-10L	2022-15-10L	3022-0-15-10L	
	15	315	160	250	M22x1,5	12	1022-0-15-12L	2022-15-12L	3022-0-15-12L	
	18	315	160	160	M26x1,5	6	1022-0-18-06L		3022-0-18-06L	
	18	315	160	160	M26x1,5	8	1022-0-18-08L		3022-0-18-08L	
	18	315	160	160	M26x1,5	10	1022-0-18-10L		3022-0-18-10L	
	18	315	160	160	M26x1,5	12	1022-0-18-12L		3022-0-18-12L	
	18	315	160	160	M26x1,5	15	1022-0-18-15L		3022-0-18-15L	
	L	22	160	160	160	M30x2	6	1022-0-22-06L		3022-0-22-06L
		22	160	160	160	M30x2	8	1022-0-22-08L		3022-0-22-08L
		22	160	160	160	M30x2	10	1022-0-22-10L		3022-0-22-10L
		22	160	160	160	M30x2	12	1022-0-22-12L		3022-0-22-12L
		22	160	160	160	M30x2	15	1022-0-22-15L		3022-0-22-15L
		22	160	160	160	M30x2	18	1022-0-22-18L		3022-0-22-18L

DIN 2353	Ø	BAR			ØM	T2	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF. *	REF.
L	28	160		100	M36x2	6	1022-0-28-06L		3022-0-28-06L
	28	160		100	M36x2	8	1022-0-28-08L		3022-0-28-08L
	28	160		100	M36x2	10	1022-0-28-10L		3022-0-28-10L
	28	160		100	M36x2	12	1022-0-28-12L		3022-0-28-12L
	28	160		100	M36x2	15	1022-0-28-15L		3022-0-28-15L
	28	160		100	M36x2	18	1022-0-28-18L		3022-0-28-18L
	28	160		100	M36x2	22	1022-0-28-22L		3022-0-28-22L
	35	160		100	M45x2	15	1022-0-35-15L		3022-0-35-15L
	35	160		100	M45x2	18	1022-0-35-18L		3022-0-35-18L
	35	160		100	M45x2	22	1022-0-35-22L		3022-0-35-22L
	35	160		100	M45x2	28	1022-0-35-28L		3022-0-35-28L
	42	160		100	M52x2	18	1022-0-42-18L		3022-0-42-18L
	42	160		100	M52x2	22	1022-0-42-22L		3022-0-42-22L
	42	160		100	M52x2	28	1022-0-42-28L		3022-0-42-28L
	42	160		100	M52x2	35	1022-0-42-35L		3022-0-42-35L



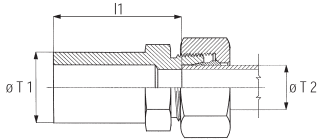
1022-0
2022
3022-0

S

Overgangskoppeling compl.
Adaptateur de réduction compl.
Pre-assembl. reducing adaptor
Reduzieranschluss komplett

DIN 2353	T1	BAR			Ø M	T2	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF. *	REF.	
S	8	630		630	M16x1,5	6	1022-0-08-06S		3022-0-08-06S	
	10	630		630	M18x1,5	6	1022-0-10-06S		3022-0-10-06S	
	10	630		630	M18x1,5	8	1022-0-10-08S		3022-0-10-08S	
	12	630		630	M20x1,5	6	1022-0-12-06S		3022-0-12-06S	
	12	630		630	M20x1,5	8	1022-0-12-08S		3022-0-12-08S	
	12	630		630	M20x1,5	10	1022-0-12-10S		3022-0-12-10S	
	14	630		630	M22x1,5	6	1022-0-14-06S		3022-0-14-06S	
	14	630		630	M22x1,5	8	1022-0-14-08S		3022-0-14-08S	
	14	630		630	M22x1,5	10	1022-0-14-10S		3022-0-14-10S	
	14	630		630	M22x1,5	12	1022-0-14-12S		3022-0-14-12S	
	S	16	400		400	M24x1,5	6	1022-0-16-06S		3022-0-16-06S
		16	400		400	M24x1,5	8	1022-0-16-08S		3022-0-16-08S
		16	400		400	M24x1,5	10	1022-0-16-10S		3022-0-16-10S
		16	400	180	400	M24x1,5	12	1022-0-16-12S	2022-16-12S	3022-0-16-12S
		16	400	180	400	M24x1,5	14	1022-0-16-14S		3022-0-16-14S
		20	400		400	M30x2	6	1022-0-20-06S		3022-0-20-06S
		20	400		400	M30x2	8	1022-0-20-08S		3022-0-20-08S
		20	400		400	M30x2	10	1022-0-20-10S		3022-0-20-10S
		20	400		400	M30x2	12	1022-0-20-12S		3022-0-20-12S
		20	400		400	M30x2	14	1022-0-20-14S		3022-0-20-14S
		20	400	180	400	M30x2	16	1022-0-20-16S	2022-20-16S	3022-0-20-16S

DIN 2353	T1	BAR			Ø M	T2	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF. *	REF.	
S	25	400		400	M36x2	6	1022-0-25-06S		3022-0-25-06S	
	25	400		400	M36x2	8	1022-0-25-08S		3022-0-25-08S	
	25	400		400	M36x2	10	1022-0-25-10S		3022-0-25-10S	
	25	400		400	M36x2	12	1022-0-25-12S		3022-0-25-12S	
	25	400		400	M36x2	14	1022-0-25-14S		3022-0-25-14S	
	25	400	180	400	M36x2	16	1022-0-25-16S	2022-25-16S	3022-0-25-16S	
	25	400	180	400	M36x2	20	1022-0-25-20S		3022-0-25-20S	
	30	400		250	M42x2	8	1022-0-30-08S		3022-0-30-08S	
	30	400		250	M42x2	10	1022-0-30-10S		3022-0-30-10S	
	30	400		250	M42x2	12	1022-0-30-12S		3022-0-30-12S	
	30	400		250	M42x2	14	1022-0-30-14S		3022-0-30-14S	
	30	400		250	M42x2	16	1022-0-30-16S		3022-0-30-16S	
	30	400		250	M42x2	20	1022-0-30-20S		3022-0-30-20S	
	30	400		250	M42x2	25	1022-0-30-25S		3022-0-30-25S	
	S	38	315		250	M52x2	12	1022-0-38-12S		3022-0-38-12S
		38	315		250	M52x2	14	1022-0-38-14S		3022-0-38-14S
		38	315		250	M52x2	16	1022-0-38-16S		3022-0-38-16S
		38	315		250	M52x2	20	1022-0-38-20S		3022-0-38-20S
		38	315		250	M52x2	25	1022-0-38-25S		3022-0-38-25S
		38	315		250	M52x2	30	1022-0-38-30S		3022-0-38-30S



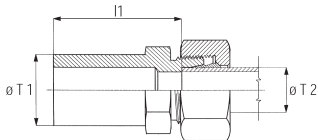
3022-K

L

Overgangskoppeling
Adaptateur de réduction
Reducing adaptor
Reduzieranschl

DIN	2353	Ø	BAR			T2	l1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
L	8	315		250	6	25,5			3022-K-08-06L	
	10	315		250	6	26,5			3022-K-10-06L	
	10	315		250	8	27,5			3022-K-10-08L	
	12	315		250	6	26,5			3022-K-12-06L	
	12	315		250	8	27,5			3022-K-12-08L	
	12	315		250	10	28,5			3022-K-12-10L	
	15	315		250	6	28			3022-K-15-06L	
	15	315		250	8	29			3022-K-15-08L	
	15	315		250	10	30			3022-K-15-10L	
	15	315		250	12	31			3022-K-15-12L	
	18	315		250	6	30			3022-K-18-06L	
	18	315		250	8	31			3022-K-18-08L	
	18	315		250	10	32			3022-K-18-10L	
	18	315		250	12	33			3022-K-18-12L	
	18	315		250	15	34			3022-K-18-15L	
	22	160		160	6	32			3022-K-22-06L	
	22	160		160	8	33			3022-K-22-08L	
	22	160		160	10	34			3022-K-22-10L	
22	160		160	12	35			3022-K-22-12L		
22	160		160	15	36			3022-K-22-15L		
22	160		160	18	36,5			3022-K-22-18L		
42	160		100	15	44			3022-K-42-15L		
42	160		100	18	44,5			3022-K-42-18L		
42	160		100	22	46,5			3022-K-42-22L		
42	160		100	28	47,5			3022-K-42-28L		
42	160		100	35	47,5			3022-K-42-35L		
42	160		100	22	46,5			3022-K-42-22L		
42	160		100	28	47,5			3022-K-42-28L		
42	160		100	35	47,5			3022-K-42-35L		

DIN	2353	Ø	BAR			T2	l1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
L	28	160		100	6	33			3022-K-28-06L	
	28	160		100	8	34			3022-K-28-08L	
	28	160		100	10	35			3022-K-28-10L	
	28	160		100	12	36			3022-K-28-12L	
	28	160		100	15	37			3022-K-28-15L	
	28	160		100	18	37,5			3022-K-28-18L	
	28	160		100	22	39,5			3022-K-28-22L	
	35	160		100	6	39			3022-K-35-06L	
	35	160		100	8	40			3022-K-35-08L	
	35	160		100	10	41			3022-K-35-10L	
	35	160		100	12	42			3022-K-35-12L	
	35	160		100	15	43			3022-K-35-15L	
	35	160		100	18	43,5			3022-K-35-18L	
	35	160		100	22	45,5			3022-K-35-22L	
	35	160		100	28	46,5			3022-K-35-28L	
	42	160		100	6	40			3022-K-42-06L	
	42	160		100	8	41			3022-K-42-08L	
	42	160		100	10	42			3022-K-42-10L	
42	160		100	12	43			3022-K-42-12L		



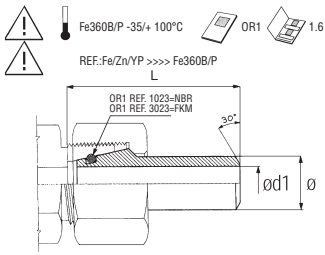
3022-K

S

Overgangskoppeling
Adaptateur de réduction
Reducing adaptor
Reduzieranschl

DIN	2353	Ø	BAR			T2	l1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
S	8	630		630	6	30			3022-K-08-06S	
	10	630		630	6	32			3022-K-10-06S	
	10	630		630	8	34			3022-K-10-08S	
	12	630		630	6	32			3022-K-12-06S	
	12	630		630	8	34			3022-K-12-08S	
	12	630		630	10	33,5			3022-K-12-10S	
	14	630		630	6	35			3022-K-14-06S	
	14	630		630	8	37			3022-K-14-08S	
	14	630		630	10	36,5			3022-K-14-10S	
	14	630		630	12	38,5			3022-K-14-12S	
	16	400		400	6	35			3022-K-16-06S	
	16	400		400	8	37			3022-K-16-08S	
	16	400		400	10	36,5			3022-K-16-10S	
	16	400		400	12	38,5			3022-K-16-12S	
16	400		400	14	40			3022-K-16-14S		
20	400		400	6	42			3022-K-20-06S		
20	400		400	8	42			3022-K-20-08S		
20	400		400	10	41,5			3022-K-20-10S		
20	400		400	12	43,5			3022-K-20-12S		
20	400		400	14	45			3022-K-20-14S		
20	400		400	16	44,5			3022-K-20-16S		

DIN	2353	Ø	BAR			T2	l1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
S	25	400		400	6	44			3022-K-25-06S	
	25	400		400	8	44			3022-K-25-08S	
	25	400		400	10	43,5			3022-K-25-10S	
	25	400		400	12	45,5			3022-K-25-12S	
	25	400		400	14	47			3022-K-25-14S	
	25	400		400	16	46,5			3022-K-25-16S	
	25	400		400	20	48,5			3022-K-25-20S	
	30	400		250	6	52			3022-K-30-06S	
	30	400		250	8	52			3022-K-30-08S	
	30	400		250	10	51,5			3022-K-30-10S	
	30	400		250	12	51,5			3022-K-30-12S	
	30	400		250	14	53			3022-K-30-14S	
	30	400		250	16	52,5			3022-K-30-16S	
	30	400		250	20	54,5			3022-K-30-20S	
	30	400		250	25	57			3022-K-30-25S	
	38	315		250	6	55			3022-K-38-06S	
	38	315		250	8	55			3022-K-38-08S	
	38	315		250	10	54,5			3022-K-38-10S	
38	315		250	12	54,5			3022-K-38-12S		
38	315		250	14	56			3022-K-38-14S		
38	315		250	16	55,5			3022-K-38-16S		
38	315		250	20	57,5			3022-K-38-20S		
38	315		250	25	60			3022-K-38-25S		
38	315		250	30	60,5			3022-K-38-30S		



1023
3023
DIN 3865A

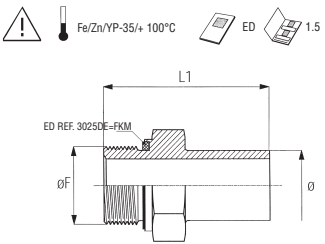
Lasnippel met O-ring
Raccord à souder avec O-ring
Welding nipple with O-ring
Anschweißnippel mit O-Ring

OR1, DIN 3865 Form A 15.7/15.8

DIN 2353	Ø	BAR			Ød1	L	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF.	REF.	
L	8			372	5	31			3023-08L	
	10			389	7	35			3023-10L	
	12			330	9	33				
	15			330	12	40			3023-15L	
	18			330	15	42			3023-18L	
	22			303	17	39			3023-22L	
	28			243	23	42			3023-28L	
	35			270	28	47			3023-35L	
	42			233	34	47			3023-42L	
	S	8	413		372	5	32	1023-08x1,5S		
		8			528	4	31			3023-08S
		10	357		389	7	33,5	1023-10x1,5S		
10		459		498	6	33,5	1023-10x2,0S		3023-10S	
12		304		330	9	33,5	1023-12x1,5S			
12		392		426	8	33,5	1023-12x2,0S		3023-12S	
12		475		516	7	33,5	1023-12x2,5S			
14		343		372	10	40	1023-14x2,0S		3023-14S	
14		485		528	8	40	1023-14x3,0S			
16		304		330	12	40,5	1023-16x2,0S			
16		370		403	11	40,5	1023-16x2,5S		3023-16S	
16		400		472	10	40,5	1023-16x3,0S			
20		304		330	15	46,5	1023-20x2,5S			
20		358		389	14	46,5	1023-20x3,0S		3023-20S	
20		400		498	12	46,5	1023-20x4,0S			
25		293		318	19	53	1023-25x3,0S		3023-25S	
25		377		411	17	53	1023-25x4,0S			

DIN 2353	Ø	BAR			Ød1	L	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
S	25	400		498	15	53	1023-25x5,0S		3023-25S5
	30	248		270	24	57,5	1023-30x3,0S		
	30	322		350	22	57,5	1023-30x4,0S		3023-30S
	30	391		426	20	57,5	1023-30x5,0S		3023-30S5
	38	260		283	30	64	1023-38x4,0S		
	38	315		346	28	64	1023-38x5,0S		3023-38S
	38	315		406	26	64	1023-38x6,0S		3023-38S6

1) $\varnothing = PB, F = 2,5$ 1.34 & 1.35

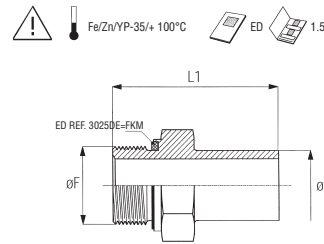


3025 DE
BSPP

Standpijp-adapter
Adapteur à embout lisse
Stud standpipe adaptor
Einschraubstutzen mit Schaft

ØF, DIN 3852/2 Form (D)E 15.7/15.8

DIN 2353	Ø	BAR			ØF	L1	Fe/Zn/YP	CuZn	AISI 316Ti
		Fe	CuZn	316Ti			REF.	REF.	REF.
L	6	315		250	G1/8	32,5			3025-06LRDE
	8	315		250	G1/4	41,5			3025-08LRDE
	10	315		250	G1/4	39,5			3025-10LRDE
	12	315		250	G3/8	46			3025-12LRDE
	12	315		250	G1/2	46			3025-12LRDE1/2
	15	315		160	G1/2	46			3025-15LRDE
	18	315		160	G1/2	45,5			3025-18LRDE
	22	160		160	G3/4	48,5			3025-22LRDE
	28	160		100	G1	53			3025-28LRDE
	35	160		100	G1.1/4	62,5			3025-35LRDE
	42	160		100	G1.1/2	68,5			3025-42LRDE
	S	6	630		630	G1/4	39		
8		630		630	G1/4	41,5			3025-08SRDE
10		630		630	G3/8	44			3025-10SRDE
12		630		630	G3/8	46			3025-12SRDE
14		630		630	G1/2	50,5			3025-14SRDE
16		400		400	G1/2	51			3025-16SRDE
20		400		400	G3/4	59			3025-20SRDE
25		400		400	G1	66			3025-25SRDE
30		400		250	G1.1/4	71			3025-30SRDE
38		315		250	G1.1/2	82			3025-38SRD

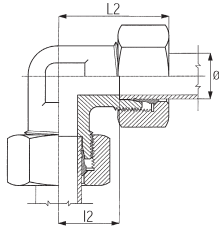


3025 DE
METR.

Standpijp-adapter
Adapteur à embout lisse
Stud standpipe adaptor
Einschraubstutzen mit Schaft

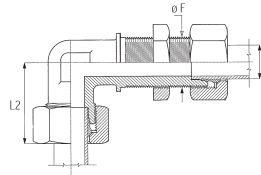
ØF, DIN 3852/2 Form (D)E 15.7/15.8

DIN 2353	Ø	BAR			ØF	L1	Fe/Zn/YP	CuZn	AISI 316Ti	
		Fe	CuZn	316Ti			REF.	REF.	REF.	
L	6	315		250	M10x1	34			3025-06LMDE	
	8	315		250	M12x1,5	38,5			3025-08LMDE	
	10	315		250	M14x1,5	39,5			3025-10LMDE	
	12	315		250	M16x1,5	42,5			3025-12LMDE	
	15	315		250	M18x1,5	41			3025-15LMDE	
	18	315		160	M22x1,5	45,5			3025-18LMDE	
	22	160		160	M26x1,5	48,5			3025-22LMDE	
	28	160		100	M33x2	53			3025-28LMDE	
	35	160		100	M42x2	60,5			3025-35LMDE	
	42	160		100	M48x2	65,5			3025-42LMDE	
	S	6	630		630	M12x1,5	39			3025-06SMDE
		8	630		630	M14x1,5	41,5			3025-08SMDE
10		630		630	M16x1,5	44			3025-10SMDE	
12		630		630	M18x1,5	46			3025-12SMDE	
14		630		630	M20x1,5	50			3025-14SMDE	
16		400		400	M22x1,5	50,5			3025-16SMDE	
20		400		400	M27x2	59			3025-20SMDE	
25		400		400	M33x2	66			3025-25SMDE	
30		400		250	M42x2	70,5			3025-30SMDE	
38		315		250	M48x2	80			3025-38SMDE	



**1040
2040
3040**

**Haakse verbindingkoppeling
Coude égal
Equal connecting elbow coupling
Winkelverschraubung**

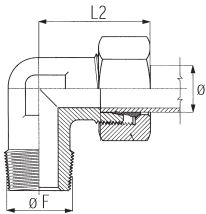


**1041
3041**

**Haakse schotschroefkoppeling
Coude de cloison
Elbow screw bulkhead coupling
Winkelschottverschraubung**

DIN	2353	Ø	BAR			ØF	L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
LL	4	100		100	21	11	1040-04LL		3040-04LL	
	6	100		100	21	9,5	1040-06LL		3040-06LL	
	8	100		100	23	11,5	1040-08LL		3040-08LL	
L	6	315	160	250	27	12	1040-06L	2040-06L	3040-06L	
	8	315	160	250	29	14	1040-08L	2040-08L	3040-08L	
	10	315	160	250	30	15	1040-10L	2040-10L	3040-10L	
	12	315	160	250	32	17	1040-12L	2040-12L	3040-12L	
	15	315	160	250	36	21	1040-15L	2040-15L	3040-15L	
	18	315	160	160	40	23,5	1040-18L	2040-18L	3040-18L	
	22	160	80	160	44	27,5	1040-22L	2040-22L	3040-22L	
	28	160	80	100	47	30,5	1040-28L	2040-28L	3040-28L	
	35	160	80	100	56	34,5	1040-35L	2040-35L	3040-35L	
	42	160	80	100	63	40	1040-42L	2040-42L	3040-42L	
	S	6	630	250	630	31	16	1040-06S	2040-06S	3040-06S
		8	630	250	630	32	17	1040-08S	2040-08S	3040-08S
10		630	250	630	34	17,5	1040-10S	2040-10S	3040-10S	
12		630	250	630	38	21,5	1040-12S	2040-12S	3040-12S	
14		630	250	630	40	22	1040-14S	2040-14S	3040-14S	
16		400	180	400	43	24,5	1040-16S	2040-16S	3040-16S	
20		400	180	400	48	26,5	1040-20S	2040-20S	3040-20S	
25		400	180	400	54	30	1040-25S	2040-25S	3040-25S	
30		400	180	250	62	35,5	1040-30S	2040-30S	3040-30S	
38		315	120	250	72	41	1040-38S	2040-38S	3040-38S	

DIN	2353	Ø	BAR			ØF	L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
L	6	315		250	M12x1,5	27	1041-06L		3041-06L	
	8	315		250	M14x1,5	29	1041-08L		3041-08L	
	10	315		250	M16x1,5	30	1041-10L		3041-10L	
	12	315		250	M18x1,5	32	1041-12L		3041-12L	
	15	315		250	M22x1,5	36	1041-15L		3041-15L	
	18	315		160	M26x1,5	40	1041-18L		3041-18L	
	22	160		160	M30x2	44	1041-22L		3041-22L	
	28	160		100	M36x2	47	1041-28L		3041-28L	
	35	160		100	M45x2	56	1041-35L		3041-35L	
	42	160		100	M52x2	63	1041-42L		3041-42L	
	S	6	630		630	M14x1,5	31	1041-06S		3041-06S
		8	630		630	M16x1,5	32	1041-08S		3041-08S
10		630		630	M18x1,5	34	1041-10S		3041-10S	
12		630		630	M20x1,5	38	1041-12S		3041-12S	
14		630		630	M22x1,5	40	1041-14S		3041-14S	
16		400		400	M24x1,5	43	1041-16S		3041-16S	
20		400		400	M30x2	48	1041-20S		3041-20S	
25		400		400	M36x2	54	1041-25S		3041-25S	
30		400		250	M42x2	62	1041-30S		3041-30S	
38		315		250	M52x2	72	1041-38S		3041-38S	



**1043
2043
3043**

**BSPT
Haakse inschroefkoppeling
Coude mâle
Male stud elbow
Winkeleinschraubverschraub**

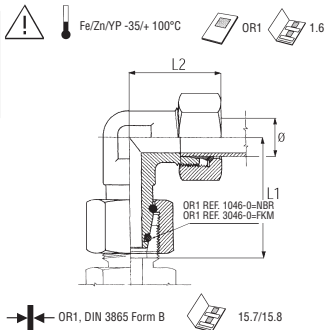
← ØF, DIN 3852 Form C 15.7/15.8

DIN	2353	Ø	BAR			ØF	L2	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
LL	4	100		100	R1/8	21	1043-04LLR			
	6	100		100	R1/8	21	1043-06LLR			
	8	100		100	R1/8	23	1043-08LLR			
L	6	315	160	250	R1/8	27	1043-06LR	2043-06LR	3043-06LR	
	6	315	160	250	R1/4	29	1043-06LR1/4	2043-06LR1/4	3043-06LR1/4	
	8	315		250	R1/8	29	1043-08LR1/8		3043-08LR1/8	
	8	315	160	250	R1/4	29	1043-08LR	2043-08LR	3043-08LR	
	8	315		250	R3/8	34	1043-08LR3/8		3043-08LR3/8	
	10	315	160	250	R1/4	30	1043-10LR	2043-10LR	3043-10LR	
	10	315	160	250	R3/8	32	1043-10LR3/8	2043-10LR 3/8	3043-10LR3/8	
	10	315		250	R1/2	38	1043-10LR1/2		3043-10LR1/2	
	12	315		250	R1/4	32	1043-12LR1/4		3043-12LR1/4	
	12	315	160	250	R3/8	32	1043-12LR	2043-12LR	3043-12LR	
	12	315	160	250	R1/2	38	1043-12LR1/2	2043-12LR1/2	3043-12LR1/2	
	15	315		250	R3/8	36	1043-15LR3/8		3043-15LR3/8	
	15	315	160	250	R1/2	36	1043-15LR	2043-15LR	3043-15LR	
	18	315	160	160	R1/2	40	1043-18LR	2043-18LR	3043-18LR	
	22	160	80	160	R3/4	44	1043-22LR	2043-22LR	3043-22LR	
	28	160		100	R1	47	1043-28LR		3043-28LR	
	35	160		100	R1.1/4	56	1043-35LR			
	42	160		100	R1.1/2	63	1043-42LR			

DIN	2353	Ø	BAR			ØF	L2	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
			Fe	CuZn	316Ti					
S	6	400	250	630	R1/4	31	1043-06SR	2043-06SR	3043-06SR	
	8	400	250	630	R1/4	32	1043-08SR	2043-08SR	3043-08SR	
	10	400	250	630	R3/8	34	1043-10SR	2043-10SR	3043-10SR	
	12	400	250	630	R3/8	38	1043-12SR	2043-12SR	3043-12SR	
	12	400		630	R1/2	40	1043-12SR1/2		3043-12SR1/2	
	14	400	250	630	R1/2	40	1043-14SR	2043-14SR	3043-14SR	
	16	400	180	400	R1/2	43	1043-16SR	2043-16SR	3043-16SR	
	20	400 ¹⁾	180	400 ¹⁾	R3/4	48	1043-20SR	2043-20SR	3043-20SR	
	25	400 ¹⁾		400 ¹⁾	R1	54	1043-25SR		3043-25SR	
	30	250 ¹⁾		250 ¹⁾	R1.1/4	62	1043-30SR		3043-30SR	
	38	250 ¹⁾		250 ¹⁾	R1.1/2	64	1043-38SR			

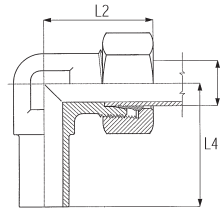
1) \ominus = PB, F = 2,5 1.34 & 1.35

1



1046-0
3046-0

Haakse instelbare koppeling
Raccord coudé orientable
Elbow swivel coupling
Einstellbare Winkelverschraubung

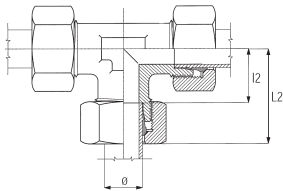


3047

Haakse instelbare koppeling
Raccord coudé orientable
Elbow swivel coupling
Einstellbare Winkelverschraubung

DIN 2353	Ø	BAR			L1	L2	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
L	6	315		250	26	27	1046-0-06L		3046-0-06L
	8	315		250	27,5	29	1046-0-08L		3046-0-08L
	10	315		250	29	30	1046-0-10L		3046-0-10L
	12	315		250	29,5	32	1046-0-12L		3046-0-12L
	15	315		250	32,5	36	1046-0-15L		3046-0-15L
	18	315		160	35,5	40	1046-0-18L		3046-0-18L
	22	160		160	38,5	44	1046-0-22L		3046-0-22L
	28	160		100	41,5	47	1046-0-28L		3046-0-28L
	35	160		100	51	56	1046-0-35L		3046-0-35L
	42	160		100	56	63	1046-0-42L		3046-0-42L
S	6	630		630	27	31	1046-0-06S		3046-0-06S
	8	630		630	27,5	32	1046-0-08S		3046-0-08S
	10	630		630	30	34	1046-0-10S		3046-0-10S
	12	630		630	31	38	1046-0-12S		3046-0-12S
	14	630		630	35	40	1046-0-14S		3046-0-14S
	16	400		400	36,5	43	1046-0-16S		3046-0-16S
	20	400		400	44,5	48	1046-0-20S		3046-0-20S
	25	400		400	50	54	1046-0-25S		3046-0-25S
	30	400		250	55	62	1046-0-30S		3046-0-30S
	38	315		250	63	72	1046-0-38S		3046-0-38S

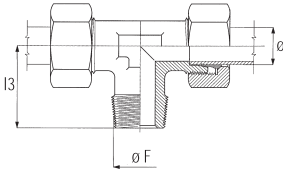
DIN 2353	Ø	BAR			L2	I4	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
L	6	315		250	27	26			3047-06L
	8	315		250	29	27			3047-08L
	10	315		250	30	29			3047-10L
	12	315		250	32	29,5			3047-12L
	15	315		250	36	32,5			3047-15L
	18	315		160	40	35,5			3047-18L
	22	160		160	44	38			3047-22L
	28	160		100	47	41,5			3047-28L
	35	160		100	56	51			3047-35L
	42	160		100	63	56			3047-42L
S	6	630		630	31	27			3047-06S
	8	630		630	32	27,5			3047-08S
	10	630		630	34	29,5			3047-10S
	12	630		630	38	30,5			3047-12S
	14	630		630	40	35			3047-14S
	16	400		400	43	36,5			3047-16S
	20	400		400	48	44,5			3047-20S
	25	400		400	54	49,5			3047-25S
	30	400		250	62	55			3047-30S
	38	315		250	72	63			3047-38S



1050
2050
3050

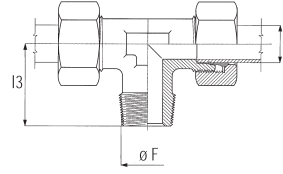
T-koppeling
T-égal
T-equal coupling
T-Verschraubung

DIN 2353	Ø	BAR			L2	I2	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
LL	4	100		100	21	11	1050-04LL		3050-04LL
	6	100		100	21	9,5	1050-06LL		3050-06LL
	8	100		100	23	11,5	1050-08LL		3050-08LL
L	6	315	160	250	27	12	1050-06L	2050-06L	3050-06L
	8	315	160	250	29	14	1050-08L	2050-08L	3050-08L
	10	315	160	250	30	15	1050-10L	2050-10L	3050-10L
	12	315	160	250	32	17	1050-12L	2050-12L	3050-12L
	15	315	160	250	36	21	1050-15L	2050-15L	3050-15L
	18	315	160	160	40	23,5	1050-18L	2050-18L	3050-18L
	22	160	80	160	44	27,5	1050-22L	2050-22L	3050-22L
	28	160	80	100	47	30,5	1050-28L	2050-28L	3050-28L
	35	160	80	100	56	34,5	1050-35L	2050-35L	3050-35L
	42	160	80	100	63	40	1050-42L	2050-42L	3050-42L
S	6	630	250	630	31	16	1050-06S	2050-06S	3050-06S
	8	630	250	630	32	17	1050-08S	2050-08S	3050-08S
	10	630	250	630	34	17,5	1050-10S	2050-10S	3050-10S
	12	630	250	630	38	21,5	1050-12S	2050-12S	3050-12S
	14	630	250	630	40	22	1050-14S	2050-14S	3050-14S
	16	400	180	400	43	24,5	1050-16S	2050-16S	3050-16S
	20	400	180	400	48	26,5	1050-20S	2050-20S	3050-20S
	25	400	180	400	54	30	1050-25S	2050-25S	3050-25S
	30	400	180	250	62	35,5	1050-30S	2050-30S	3050-30S
	38	315	120	250	72	41	1050-38S	2050-38S	3050-38S



← ØF, DIN 3852 Form C 15.7/15.8

1051
3051
BSPT *
T-inschroefkoppeling
T-måle
T-male stud
T-Einschraubverschraubung



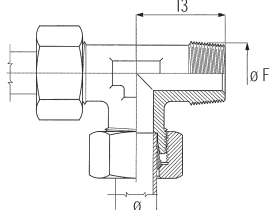
← ØF, DIN 3852 Form C 15.7/15.8

1051
3051
METR.(T)
T-inschroefkoppeling
T-måle
T-male stud
T-Einschraubverschraubung

DIN 2353	Ø	BAR			ØF	l3	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
LL	4	100		100	R1/8	17	1051-04LLRC			
	6	100		100	R1/8	17	1051-06LLRC			
	8	100		100	R1/8	20	1051-08LLRC			
L	6	315		250	R1/8	20	1051-06LRC		3051-06LRC	
	8	315		250	R1/4	26	1051-08LRC		3051-08LRC	
	10	315		250	R1/4	27	1051-10LRC		3051-10LRC	
	12	315		250	R3/8	28	1051-12LRC		3051-12LRC	
	15	315		250	R1/2	34	1051-15LRC		3051-15LRC	
	18	315		160	R1/2	36	1051-18LRC		3051-18LRC	
	22	160		160	R3/4	42	1051-22LRC		3051-22LRC	
	28	160		100	R1	48	1051-28LRC		3051-28LRC	
	35	160		100	R1.1/4	54	1051-35LRC		3051-35LRC	
	42	160		100	R1.1/2	61	1051-42LRC		3051-42LRC	
	S	6	400		630	R1/4	26	1051-06SRC		3051-06SRC
		8	400		630	R1/4	27	1051-08SRC		3051-08SRC
10		400		630	R3/8	28	1051-10SRC		3051-10SRC	
12		400		630	R3/8	28	1051-12SRC		3051-12SRC	
14		400		630	R1/2	32	1051-14SRC		3051-14SRC	
16		400		400	R1/2	32	1051-16SRC		3051-16SRC	
20		400 ¹⁾		400 ¹⁾	R3/4	42	1051-20SRC		3051-20SRC	
25		400 ¹⁾		400 ¹⁾	R1	48	1051-25SRC		3051-25SRC	
30		250 ¹⁾		250 ¹⁾	R1.1/4	54	1051-30SRC		3051-30SRC	
38		250 ¹⁾		250 ¹⁾	R1.1/2	61	1051-38SRC		3051-38SRC	

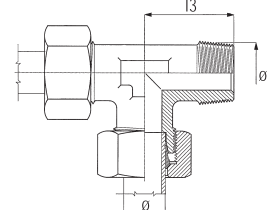
1) = PB, F = 2.5 1.34 & 1.35 * NPTF

DIN 2353	Ø	BAR			ØF	l3	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
LL	4	100		100	M8x1con	11	1051-04LLMC		
	6	100		100	M10x1con	9,5	1051-06LLMC		
	8	100		100	M10x1con	11,5	1051-08LLMC		
L	6	315		250	M10x1con	12	1051-06LMC		3051-06LMC
	8	315		250	M12x1,5con	26	1051-08LMC		3051-08LMC
	10	315		250	M14x1,5con	27	1051-10LMC		3051-10LMC
	12	315		250	M16x1,5con	28	1051-12LMC		3051-12LMC
	15	315		250	M18x1,5con	32	1051-15LMC		3051-15LMC
	18	315		160	M22x1,5con	36	1051-18LMC		3051-18LMC
S	6	400		630	M12x1,5con	26	1051-06SMC		3051-06SMC
	8	400		630	M14x1,5con	27	1051-08SMC		3051-08SMC
	10	400		630	M16x1,5con	28	1051-10SMC		3051-10SMC
	12	400		630	M18x1,5con	32	1051-12SMC		3051-12SMC
	14	400		630	M20x1,5con	38	1051-14SMC		3051-14SMC
	16	400		400	M22x1,5con	32	1051-16SMC		3051-16SMC



← ØF, DIN 3852 Form C 15.7/15.8

1052
3052
BSPT *
L-inschroefkoppeling
L-måle
L-male stud
L-Einschraubverschraubung



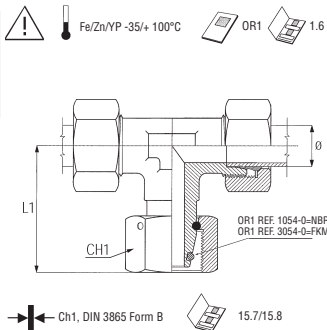
← ØF, DIN 3852 Form C 15.7/15.8

1052
3052
METR.(T)
L-inschroefkoppeling
L-måle
L-male stud
L-Einschraubverschraubung

DIN 2353	Ø	BAR			ØF	l3	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
LL	4	100		100	R1/8	17	1052-04LLRC			
	6	100		100	R1/8	17	1052-06LLRC			
	8	100		100	R1/8	20	1052-08LLRC			
L	6	315		250	R1/8	17	1052-06LRC		3052-06LRC	
	8	315		250	R1/4	26	1052-08LRC		3052-08LRC	
	10	315		250	R1/4	27	1052-10LRC		3052-10LRC	
	12	315		250	R3/8	28	1052-12LRC		3052-12LRC	
	15	315		250	R1/2	34	1052-15LRC		3052-15LRC	
	18	315		160	R1/2	36	1052-18LRC		3052-18LRC	
	22	160		160	R3/4	42	1052-22LRC		3052-22LRC	
	28	160		100	R1	48	1052-28LRC		3052-28LRC	
	35	160		100	R1.1/4	54	1052-35LRC		3052-35LRC	
	42	160		100	R1.1/2	61	1052-42LRC		3052-42LRC	
	S	6	400		630	R1/4	26	1052-06SRC		3052-06SRC
		8	400		630	R1/4	27	1052-08SRC		3052-08SRC
10		400		630	R3/8	28	1052-10SRC		3052-10SRC	
12		400		630	R3/8	28	1052-12SRC		3052-12SRC	
14		400		630	R1/2	32	1052-14SRC		3052-14SRC	
16		400		400	R1/2	32	1052-16SRC		3052-16SRC	
20		400 ¹⁾		400 ¹⁾	R3/4	42	1052-20SRC		3052-20SRC	
25		400 ¹⁾		400 ¹⁾	R1	48	1052-25SRC		3052-25SRC	
30		250 ¹⁾		250 ¹⁾	R1.1/4	54	1052-30SRC		3052-30SRC	
38		250 ¹⁾		250 ¹⁾	R1.1/2	61	1052-38SRC		3052-38SRC	

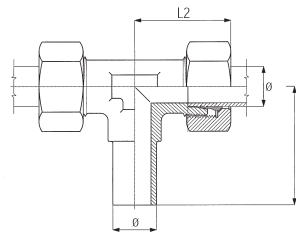
1) = PB, F = 2.5 1.34 & 1.35 * NPTF

DIN 2353	Ø	BAR			ØF	l3	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti					
LL	4	100		100	M8x1con	17	1052-04LLMC		
	6	100		100	M10x1con	17	1052-06LLMC		
	8	100		100	M10x1con	20	1052-08LLMC		
L	6	315		250	M10x1con	20	1052-06LMC		3052-06LMC
	8	315		250	M12x1,5con	26	1052-08LMC		3052-08LMC
	10	315		250	M14x1,5con	27	1052-10LMC		3052-10LMC
	12	315		250	M16x1,5con	28	1052-12LMC		3052-12LMC
	15	315		250	M18x1,5con	32	1052-15LMC		3052-15LMC
	18	315		160	M22x1,5con	36	1052-18LMC		3052-18LMC
S	6	400		630	M12x1,5con	26	1052-06SMC		3052-06SMC
	8	400		630	M14x1,5con	27	1052-08SMC		3052-08SMC
	10	400		630	M16x1,5con	28	1052-10SMC		3052-10SMC
	12	400		630	M18x1,5con	32	1052-12SMC		3052-12SMC
	14	400		630	M20x1,5con	38	1052-14SMC		3052-14SMC
	16	400		400	M22x1,5con	32	1052-16SMC		3052-16SMC



1054-0
3054-0

Instelbare T-koppeling
T-orientable
T-swivel coupling
Einstellbare T-Verschraubung

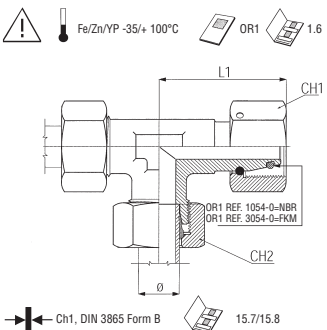


3055

Instelbare T-koppeling
T-orientable
T-swivel coupling
Einstellbare T-Verschraubung

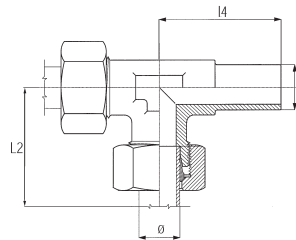
DIN 2353	BAR			L1	CH1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
	Ø	Fe	CuZn 316Ti					
L	6	315	250	26	6L	1054-0-06L		3054-0-06L
	8	315	250	27,5	8L	1054-0-08L		3054-0-08L
	10	315	250	29	10L	1054-0-10L		3054-0-10L
	12	315	250	29,5	12L	1054-0-12L		3054-0-12L
	15	315	250	32,5	15L	1054-0-15L		3054-0-15L
	18	315	160	35,5	18L	1054-0-18L		3054-0-18L
	22	160	160	38,5	22L	1054-0-22L		3054-0-22L
	28	160	100	41,5	28L	1054-0-28L		3054-0-28L
	35	160	100	51	35L	1054-0-35L		3054-0-35L
	42	160	100	56	42L	1054-0-42L		3054-0-42L
S	6	630	630	27	6S	1054-0-06S		3054-0-06S
	8	630	630	27,5	8S	1054-0-08S		3054-0-08S
	10	630	630	30	10S	1054-0-10S		3054-0-10S
	12	630	630	31	12S	1054-0-12S		3054-0-12S
	14	630	630	35	14S	1054-0-14S		3054-0-14S
	16	400	400	36,5	16S	1054-0-16S		3054-0-16S
	20	400	400	44,5	20S	1054-0-20S		3054-0-20S
	25	400	400	50	25S	1054-0-25S		3054-0-25S
	30	400	250	55	30S	1054-0-30S		3054-0-30S
	38	315	250	63	38S	1054-0-38S		3054-0-38S

DIN 2353	BAR			L1	I4	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
	Ø	Fe	CuZn 316Ti					
L	6	315	250	27	26			3055-06L
	10	315	250	30	28,5			3055-10L
	12	315	250	32	29			3055-12L
	15	315	250	36	32			3055-15L
	18	315	160	40	35			3055-18L
	22	160	160	44	38			3055-22L
	28	160	100	47	41,5			3055-28L
	35	160	100	56	51			3055-35L
	42	160	100	63	56			3055-42L
	S	6	630	630	31	27		
8		630	630	32	27			3055-08S
10		630	630	34	29,5			3055-10S
12		630	630	38	30,5			3055-12S
14		630	630	40	34,5			3055-14S
16		400	400	43	36			3055-16S
20		400	400	48	44			3055-20S
25		400	400	54	49,5			3055-25S
30		400	250	62	55			3055-30S
38		315	250	72	63			3055-38S



1054-0
3054-0

Instelbare L-koppeling
L-orientable
L-swivel coupling
Einstellbare L-Verschraubung

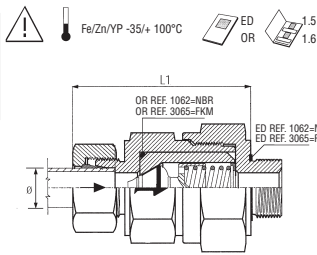


3055

Instelbare L-koppeling
L-orientable à embout lisse
L-swivel coupling
Einstellbare L-Verschraubung

DIN 2353	BAR			L1	CH2	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
	Ø	Fe	CuZn 316Ti					
L	6	315	250	26	6L	1054-0-06EL		3054-0-06EL
	8	315	250	27,5	8L	1054-0-08EL		3054-0-08EL
	10	315	250	29	10L	1054-0-10EL		3054-0-10EL
	12	315	250	29,5	12L	1054-0-12EL		3054-0-12EL
	15	315	250	32,5	15L	1054-0-15EL		3054-0-15EL
	18	315	160	35,5	18L	1054-0-18EL		3054-0-18EL
	22	160	160	38,5	22L	1054-0-22EL		3054-0-22EL
	28	160	100	41,5	28L	1054-0-28EL		3054-0-28EL
	35	160	100	51	35L	1054-0-35EL		3054-0-35EL
	42	160	100	56	42L	1054-0-42EL		3054-0-42EL
S	6	630	630	27	6S	1054-0-06ES		3054-0-06ES
	8	630	630	27,5	8S	1054-0-08ES		3054-0-08ES
	10	630	630	30	10S	1054-0-10ES		3054-0-10ES
	12	630	630	31	12S	1054-0-12ES		3054-0-12ES
	14	630	630	35	14S	1054-0-14ES		3054-0-14ES
	16	400	400	36,5	16S	1054-0-16ES		3054-0-16ES
	20	400	400	44,5	20S	1054-0-20ES		3054-0-20ES
	25	400	400	50	25S	1054-0-25ES		3054-0-25ES
	30	400	250	55	30S	1054-0-30ES		3054-0-30ES
	38	315	250	63	38S	1054-0-38ES		3054-0-38ES

DIN 2353	BAR			L2	I4	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
	Ø	Fe	CuZn 316Ti					
L	6	315	250	27	26			3055-06EL
	8	315	250	29	27			3055-08EL
	10	315	250	30	28,5			3055-10EL
	12	315	250	32	29			3055-12EL
	15	315	250	36	32			3055-15EL
	18	315	160	40	35			3055-18EL
	22	160	160	44	38			3055-22EL
	28	160	100	47	41,5			3055-28EL
	35	160	100	56	51			3055-35EL
	42	160	100	63	56			3055-42EL
S	6	630	630	31	27			3055-06ES
	8	630	630	32	27			3055-08ES
	10	630	630	34	29,5			3055-10ES
	12	630	630	38	30,5			3055-12ES
	14	630	630	40	34,5			3055-14ES
	16	400	400	43	36			3055-16ES
	20	400	400	48	44			3055-20ES
	25	400	400	54	49,5			3055-25ES
	30	400	250	62	55			3055-30ES
	38	315	250	72	63			3055-38ES



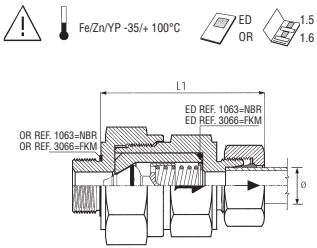
ED, DIN 3852/2 Form (D)E 15.7/15.8

1062 DE
3065 DE
BSPB
Inschroef-terugslagklep
Clapet anti-retour mâle
Non-return valve with male stud
Einschraub-Rückschlagventil

DIN 2353	Ø	BAR ¹⁾			L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti				
L	6	250		250	0,2	44	1062-06LRDE-02	
		250		250	0,5	44	1062-06LRDE-05	
		250		250	1	44	1062-06LRDE	3065-06LRDE
		250		250	2	44	1062-06LRDE-20	
	8	250		250	0,2	46,5	1062-08LRDE-02	
		250		250	0,5	46,5	1062-08LRDE-05	
		250		250	1	46,5	1062-08LRDE	3065-08LRDE
		250		250	2	46,5	1062-08LRDE-20	
	10	250		250	0,2	52,5	1062-10LRDE-02	
		250		250	0,5	52,5	1062-10LRDE-05	
		250		250	1	52,5	1062-10LRDE	3065-10LRDE
		250		250	2	52,5	1062-10LRDE-20	
	12	250		250	0,2	54	1062-12LRDE-02	
		250		250	0,5	54	1062-12LRDE-05	
		250		250	1	54	1062-12LRDE	3065-12LRDE
		250		250	2	54	1062-12LRDE-20	
	15	250		250	1	57	1062-15LRDE	3065-15LRDE
		160		160	1	69	1062-18LRDE	3065-18LRDE
	22	160		160	1	73,5	1062-22LRDE	3065-22LRDE
		100		100	1	78,5	1062-28LRDE	3065-28LRDE
		100		100	1	91,5	1062-35LRDE	3065-35LRDE
		100		100	1	97,5	1062-42LRDE	3065-42LRDE

DIN 2353	Ø	BAR ¹⁾			L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti				
S	6	400		630	0,2	46,5	1062-06SRDE-02	
		400		630	0,5	46,5	1062-06SRDE-05	
		400		630	1	46,5	1062-06SRDE	3065-06SRDE
		400		630	2	46,5	1062-06SRDE-20	
	8	400		630	0,2	48,5	1062-08SRDE-02	
		400		630	0,5	48,5	1062-08SRDE-05	
		400		630	1	48,5	1062-08SRDE	3065-08SRDE
		400		630	2	48,5	1062-08SRDE-20	
	10	400		630	0,2	54,5	1062-10SRDE-02	
		400		630	0,3	54,5	1062-10SRDE-03	
		400		630	1	54,5	1062-10SRDE	3065-10SRDE
		400		630	2	54,5	1062-10SRDE-20	
	12	400		630	0,2	55,5	1062-12SRDE-02	
		400		630	0,3	55,5	1062-12SRDE-03	
		400		630	1	55,5	1062-12SRDE	3065-12SRDE
		400		630	2	55,5	1062-12SRDE-20	
	14	400		630	1	70	1062-14SRDE	3065-14SRDE
		16	400	400	1	65,5	1062-16SRDE	3065-16SRDE
		20	400	400	1	77,5	1062-20SRDE	3065-20SRDE
	25	250		400	1	82,5	1062-25SRDE	3065-25SRDE
		30	250	250	1	92,5	1062-30SRDE	3065-30SRDE
		38	250	250	1	101,5	1062-38SRDE	3065-38SRDE

1) = PB, F = 2,5 1.34 & 1.35 2) 0,2 - 0,5 - 2 - 3 bar; REF. 1061-2-6



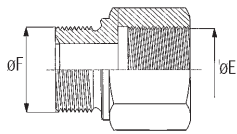
ED, DIN 3852/2 Form (D)E 15.7/15.8

1063 DE
3066 DE
BSPB
Inschroef-terugslagklep
Clapet anti-retour mâle
Non-return valve with male stud
Einschraub-Rückschlagventil

DIN 2353	Ø	BAR ¹⁾			L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti				
L	6	250		250	0,2	44	1063-06LRDE-02	
		250		250	0,5	44	1063-06LRDE-05	
		250		250	1	44	1063-06LRDE	3066-06LRDE
		250		250	2	44	1063-06LRDE-20	
	8	250		250	0,2	46,5	1063-08LRDE-02	
		250		250	0,5	46,5	1063-08LRDE-05	
		250		250	1	46,5	1063-08LRDE	3066-08LRDE
		250		250	2	46,5	1063-08LRDE-20	
	10	250		250	0,2	52,5	1063-10LRDE-02	
		250		250	0,5	52,5	1063-10LRDE-05	
		250		250	1	52,5	1063-10LRDE	3066-10LRDE
		250		250	2	52,5	1063-10LRDE-20	
	12	250		250	0,2	54	1063-12LRDE-02	
		250		250	0,5	54	1063-12LRDE-05	
		250		250	1	54	1063-12LRDE	3066-12LRDE
		250		250	2	54	1063-12LRDE-20	
	15	250		250	1	57	1063-15LRDE	3066-15LRDE
		160		160	1	69	1063-18LRDE	3066-18LRDE
	22	160		160	1	73,5	1063-22LRDE	3066-22LRDE
		100		100	1	78,5	1063-28LRDE	3066-28LRDE
		100		100	1	91,5	1063-35LRDE	3066-35LRDE
		100		100	1	97,5	1063-42LRDE	3066-42LRDE

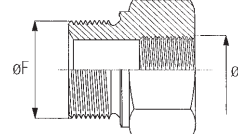
DIN 2353	Ø	BAR ¹⁾			L1	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.
		Fe	CuZn	316Ti				
S	6	400		630	0,2	46,5	1063-06SRDE-02	
		400		630	0,5	46,5	1063-06SRDE-05	
		400		630	1	46,5	1063-06SRDE	3066-06SRDE
		400		630	2	46,5	1063-06SRDE-20	
	8	400		630	0,2	48,5	1063-08SRDE-02	
		400		630	0,5	48,5	1063-08SRDE-05	
		400		630	1	48,5	1063-08SRDE	3066-08SRDE
		400		630	2	48,5	1063-08SRDE-20	
	10	400		630	0,2	54,5	1063-10SRDE-02	
		400		630	0,5	54,5	1063-10SRDE-05	
		400		630	1	54,5	1063-10SRDE	3066-10SRDE
		400		630	2	54,5	1063-10SRDE-20	
	12	400		630	0,2	55,5	1063-12SRDE-02	
		400		630	0,5	55,5	1063-12SRDE-05	
		400		630	1	55,5	1063-12SRDE	3066-12SRDE
		400		630	2	55,5	1063-12SRDE-20	
	14	400		630	1	70	1063-14SRDE	3066-14SRDE
		16	400	400	1	65,5	1063-16SRDE	3066-16SRDE
		20	400	400	1	77,5	1063-20SRDE	3066-20SRDE
	25	250		400	1	82,5	1063-25SRDE	3066-25SRDE
		30	250	250	1	92,5	1063-30SRDE	3066-30SRDE
		38	250	250	1	101,5	1063-38SRDE	3066-38SRDE

1) = PB, F = 2,5 1.34 & 1.35 2) 0,2 - 0,5 - 2 - 3 bar; REF. 1061-2-6



← ØF, DIN 3852 Form B 15.7/15.8

1068
3068
BSPP
Draadverloop-adapter
Adapteur de réduction
Reducing adaptor
Reduzierstutzen



← ØF, DIN 3852 Form B 15.7/15.8

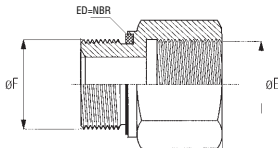
1069
3069
BSPP
Draadverloop-adapter
Adapteur de réduction
Reducing adaptor
Reduzierstutzen

DIN 2353	Ø	BAR ¹⁾			ØF	ØE	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
		630		630	G1/8	G1/4	1068-02-04		3068-02-04	
		630		630	G1/8	G3/8	1068-02-06		3068-02-06	
		630		630	G1/4	G1/8	1068-04-02		3068-04-02	
		630		630	G1/4	G3/8	1068-04-06		3068-04-06	
		630		630	G1/4	G1/2	1068-04-08		3068-04-08	
		400		400	G1/4	G3/4	1068-04-12		3068-04-12	
		630		630	G3/8	G1/4	1068-06-04		3068-06-04	
		630		630	G3/8	G1/2	1068-06-08		3068-06-08	
		400		400	G3/8	G3/4	1068-06-12		3068-06-12	
		400		400	G1/2	G3/8	1068-08-06		3068-08-06	
		400		400	G1/2	G3/4	1068-08-12		3068-08-12	
		400		400	G1/2	G1	1068-08-16		3068-08-16	
		250		400	G1/2	G1.1/4	1068-08-20		3068-08-20	
		400		400	G3/4	G1/2	1068-12-08		3068-12-08	
		400		400	G3/4	G1	1068-12-16		3068-12-16	
		250		250	G3/4	G1.1/4	1068-12-20		3068-12-20	
				250		250	G3/4	G1.1/2	1068-12-24	3068-12-24
		400		400	G1	G3/4	1068-16-12		3068-16-12	
		250		250	G1	G1.1/4	1068-16-20		3068-16-20	
				250		250	G1	G1.1/2	1068-16-24	3068-16-24
				250		250	G1.1/4	G1	1068-20-16	3068-20-16
				250		250	G1.1/4	G1.1/2	1068-20-24	3068-20-24
				250		250	G1.1/2	G1.1/4	1068-24-20	3068-24-20

1) = PB, F = 2.5 1.34 & 1.35

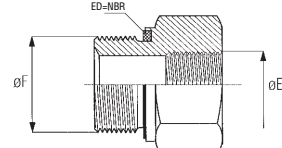
DIN 2353	Ø	BAR ¹⁾			ØF	ØE	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
		630		630	G3/8	G1/8	1069-06-02		3069-06-02	
		630		630	G1/2	G1/8	1069-08-02		3069-08-02	
		400		400	G1/2	G1/4	1069-08-04		3069-08-04	
		400		400	G3/4	G1/4	1069-12-04		3069-12-04	
		400		400	G3/4	G3/8	1069-12-06		3069-12-06	
		400		400	G1	G1/4	1069-16-04		3069-16-04	
		400		400	G1	G3/8	1069-16-06		3069-16-06	
		400		400	G1	G1/2	1069-16-08		3069-16-08	
		250		250	G1.1/4	G1/2	1069-20-08		3069-20-08	
		250		250	G1.1/4	G3/4	1069-20-12		3069-20-12	
				250		250	G1.1/2	G1/2	1069-24-08	3069-24-08
				250		250	G1.1/2	G3/4	1069-24-12	3069-24-12
				250		250	G1.1/2	G1	1069-24-16	3069-24-16
				250		250	G2	G1.1/2	1069-32-24	

1) = PB, F = 2.5 1.34 & 1.35



← ØF, DIN 3852/2 Form (D)E 15.7/15.8

1068 DE
BSPP
Draadverloop-adapter
Adapteur de réduction
Reducing adaptor
Reduzierstutzen

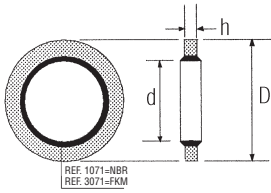
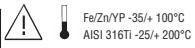


← ØF, DIN 3852/2 Form (D)E 15.7/15.8

1069 DE
BSPP
Draadverloop-adapter
Adapteur de réduction
Reducing adaptor
Reduzierstutzen

DIN 2353	Ø	BAR			ØF	ØE	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
		630		630	G1/8	G1/4	1068-02-04DE			
		630		630	G1/8	G3/8	1068-02-06DE			
		630		630	G1/4	G1/8	1068-04-02DE			
		630		630	G1/4	G3/8	1068-04-06DE			
		630		630	G1/4	G1/2	1068-04-08DE			
		630		630	G1/4	G3/4	1068-04-12DE			
		630		630	G3/8	G1/4	1068-06-04DE			
		630		630	G3/8	G1/2	1068-06-08DE			
		400		630	G3/8	G3/4	1068-06-12DE			
		630		630	G1/2	G3/8	1068-08-06DE			
		400		400	G1/2	G3/4	1068-08-12DE			
		400		400	G1/2	G1	1068-08-16DE			
		400		400	G1/2	G1.1/4	1068-08-20DE			
		400		400	G3/4	G1/2	1068-12-08DE			
		400		400	G3/4	G1	1068-12-16DE			
		400		400	G3/4	G1.1/4	1068-12-20DE			
				315		315	G3/4	G1.1/2	1068-12-24DE	
		400		400	G1	G3/4	1068-16-12DE			
		400		400	G1	G1.1/4	1068-16-20DE			
				315		315	G1	G1.1/2	1068-16-24DE	
				400		400	G1.1/4	G1	1068-20-16DE	
				315		315	G1.1/4	G1.1/2	1068-20-24DE	
				315		315	G1.1/2	G1.1/4	1068-24-20DE	

DIN 2353	Ø	BAR			ØF	ØE	Fe/Zn/YP REF.	CuZn REF.	AISI 316Ti REF.	
		Fe	CuZn	316Ti						
		630		630	G3/8	G1/8	1069-06-02DE			
		630		630	G1/2	G1/8	1069-08-02DE			
		630		630	G1/2	G1/4	1069-08-04DE			
		400		400	G3/4	G1/4	1069-12-04DE			
		400		400	G3/4	G3/8	1069-12-06DE			
		400		400	G1	G1/4	1069-16-04DE			
		400		400	G1	G3/8	1069-16-06DE			
		400		400	G1	G1/2	1069-16-08DE			
		400		400	G1.1/4	G1/2	1069-20-08DE			
		400		400	G1.1/4	G3/4	1069-20-12DE			
				315		315	G1.1/2	G1/2	1069-24-08DE	
				315		315	G1.1/2	G3/4	1069-24-12DE	
				315		315	G1.1/2	G1	1069-24-16DE	

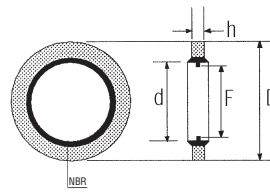


REF. 1071=NBR
REF. 3071=FKM

1071

3071

Afdichtingsring
Joint d'étanchéité
Bonded seal
Dichtring



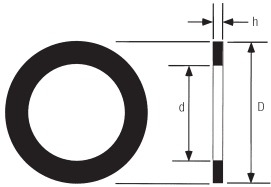
NBR

1072

Afdichtingsring (zelfcenterend)
Joint d'étanchéité (auto centrage)
Bonded seal (self centring)
Dichtring (selbstzentrierend)

METR.	N.B.	O.D.	d	D	h	BAR	Fe/Zn/YP REF.	Cu REF.	AISI 316Ti REF.
M5			5,7	9	1	1400	1071-05		
M6		1/4"	6,7	11	1	1510	1071-06		
M8			8,7	14	1	1550	1071-08		3071-08
M10	1/8"	3/8"	10,3	15,9	2,1	1500	1071-09		3071-09
		3/8"	10,7	16	1,5	1350	1071-10		
M12		1/2"	12,7	18	1,5	1250	1071-12		3071-12
M14			13,7	20,6	2,1	1550	1071-13		3071-13
M16			14,7	22	1,5	1510	1071-14		3071-14
M18		5/8"	16,7	24	1,5	1400	1071-16		3071-16
M20	3/8"		17,2	23,8	2,1	1260	1071-17		3071-17
M18			18,7	27	1,5	1275	1071-18		3071-18
M20		3/4"	20,7	29	1,5	1150	1071-20		3071-20
M22	1/2"		21,5	28,6	2,5	1150	1071-21		3071-21
M24			22,7	30	2	1100	1071-22		
			24,7	32	2	1050	1071-24		
M26			26,7	35	2	1050	1071-26		
M28	3/4"	1"	27,7	35	2	1060	1071-27		3071-27
M30			28,6	36	2	1060	1071-28		
M33			30,7	39,1	2,5	700	1071-30		
M36	1"	1.1/4"	33,7	42,8	3,4	790	1071-33		3071-33
M42			37	48	3,4	690	1071-36		
M48	1.1/4"	1.1/2"	40	47,8	3,4	690	1071-39		3071-42
M60	1.1/2"	2"	42,7	52,4	3,4	690	1071-42		3071-48
			48,7	59,6	3,4	690	1071-48		3071-60
			60,6	73,1	3,4	700	1071-60		

METR.	N.B.	O.D.	d	D	F	BAR	Fe/Zn/YP REF.	Cu REF.	AISI 316Ti REF.
M8	1/8"	3/8"	8,7	14		1550	1072-08		3072-08
M10		3/8"	10,4	15,9	8,6	1500	1072-09		3072-09
M12			10,7	16		1350	1072-10		
			12,7	18		1530	1072-12		3072-12
	1/4"	1/2"	13,7	20,6	11,5	1550	1072-13		3072-13
M14			14,7	22		1510	1072-14		3072-14
M16		5/8"	16,7	24		1400	1072-16		3072-16
M18			17,3	23,8	15	1260	1072-17		3072-17
M20	3/8"		18,7	26		1275	1072-18		3072-18
		3/4"	20,7	28		1150	1072-20		3072-20
M22			21,5	28,6	18,6	1150	1072-21		3072-21
M24	1/2"		22,7	30		1100	1072-22		
			24,7	32		1050	1072-24		
M33	3/4"	1"	27,1	34,9	24,1	1060	1072-27		3072-27
	1"	1.1/4"	33,9	42,8	30,3	790	1072-33		3072-33
M42			42,9	52,4	38	690	1072-42		3072-42
M48	1.1/4"		48,5	58,6	44,9	690	1072-48		3072-48
M60	1.1/2"	2"	60,6	73	56,7	700	1072-60		3072-60



2070

Koperen afdichtingsring
Joint d'étanchéité en cuivre
Sealing ring in copper
Dichtring aus Kupfer

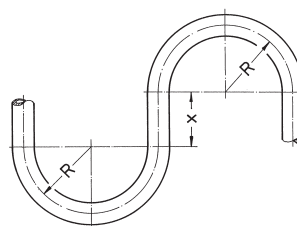
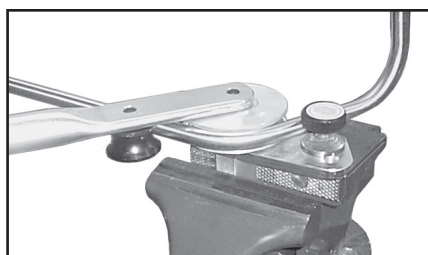
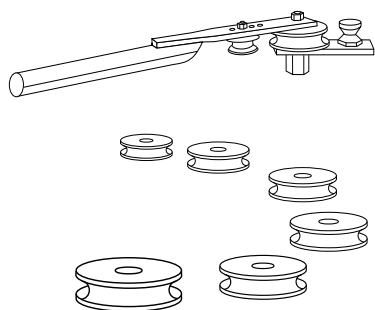
METR.	N.B.	O.D.	Ød	ØD	h	Fe/Zn/YP REF.	Cu REF.	AISI 316Ti REF.
M 8		5/16"	8,2	11,2	1,5		2070-08	
M10	1/8"	3/8"	10,2	13,5	1,5		2070-10	
M12		7/16"	11,2	14,8	1,5		2070-11	
			12,2	17	1,5		2070-12	
	1/4"	1/2"	13,5	17	1,5		2070-13	
M14		9/16"	14,2	18,5	1,5		2070-14	
M16		5/8"	16,2	21	1,5		2070-16	
M18	3/8"		17	21	1,5		2070-17	
			18,2	23	1,5		2070-18	
		3/4"	19,2	24	1,5		2070-19	
M20			20,2	25	1,5		2070-20	
M22	1/2"		21,2	26	1,5		2070-21	
M24		7/8"	22,2	27	1,5		2070-22	
			24,2	29	1,5		2070-24	
			25,2	30	1,5		2070-25	
M26			26,2	31	1,5		2070-26	
M27	3/4"	1"	27,2	32	1,5		2070-27	
M30			30,2	35	1,5		2070-30	
M33			33,2	38,8	1,5		2070-33	
	1"	1.1/4"	34	41	1,5		2070-34	
M36			36,2	42	1,5		2070-36	
M42	1.1/4"	1.1/2"	39,2	44	1,5		2070-39	
M45			42,2	50	1,5		2070-42	
M48	1.1/2"		45,2	52	2		2070-45	
			48,2	53	1,5		2070-48	
M60	2"	2"	52,2	62	1,5		2070-52	
			59,8	70	2		2070-60	

1075-10-0618

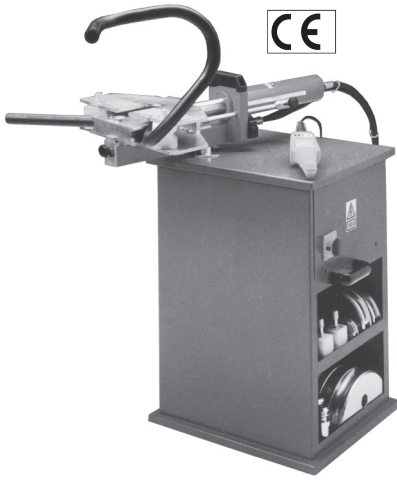
↔ 6-42mm

Buigapparaat
Cintreuse de tubes
Bending tool
Rohrbiegevorrichtung

PRODUCT INFO



↔	R	± X
6 - 8	25	35
10 - 12	36,5	35
14	36,5	35
15	44	38
16	44	38
18	51,5	42



REF. 1075-10-0642



220/380 V, 3 fase, 1,5 kW

90 kg
LxBxH: 1000x550x800 mm

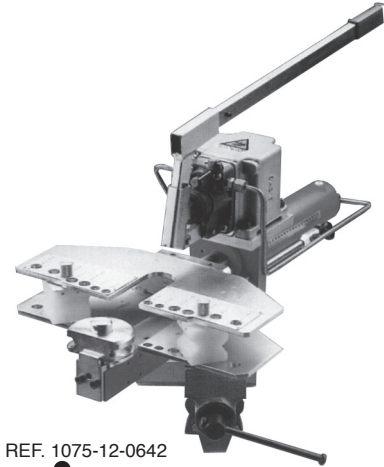
1075-10-0642
1075-12-0642
1075-15-0642

↔ 6-42mm

Hydraulische pijpbuigmachines
 Cintreuse hydraulique
 Hydraulic pipe bending machines
 Hydraulische Rohrbiegemaschinen



PRODUCT INFO



REF. 1075-12-0642



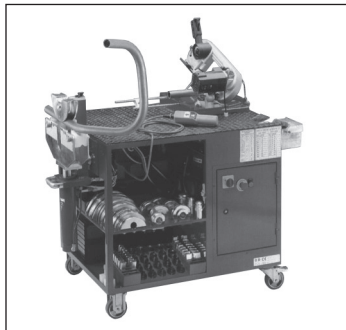
40 kg
LxBxH: 500x400x340 mm



REF. 1075-15-0642



48 kg
LxBxH: 780x420x650 mm



1076-10-0642

↔ 6-42mm

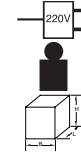
Mobiele pijpbewerkingsmachine
 Centre d'usinage mobile pour tubes
 Mobile pipe preparation machine
 Mobile Rohrbearbeitungsmaschine



PRODUCT INFO



REF. 1076-10-0642



220V/50Hz, 1-phase

275 kg

LxBxH: 1250x790x1220 mm

buis zagen
 sciage des tubes
 sawing of tube
 Rohr sägen

buis inwendig afbramen
 ébarbement intérieure des tubes
 deburring of tube inside
 Rohr Innenseite entgraten

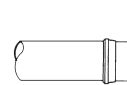
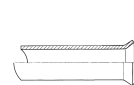
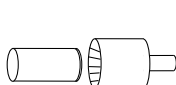
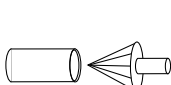
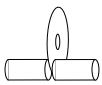
buis uitwendig afbramen
 ébarbement extérieure des tubes
 deburring of tube outside
 Rohr Aussenseite entgraten

buis 37° felzen (flaren)
 évasement des tubes à 37°
 37° flaring of tube
 Rohr 37° bördeln

snijring voormonteren
 pré-montage de bagues coupantes
 pre-assembly cutting ring
 vormontage Schneidring

pijp buigen
 cintrage des tubes
 pipe bending
 Rohr biegen

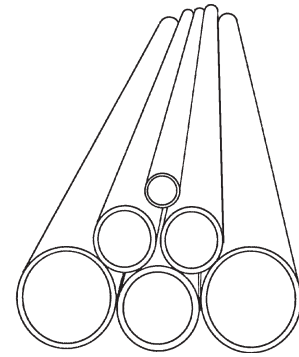
reinen met perslucht
 nettoyage à air comprimé
 cleaning with compressed air
 Reinigung mit Pressluft



1090
1590

Stalen buis
Tube acier
Steel pipe
Stahlrohr







Fe 37.4



<p>Type: Naadloze koudgetrokken stalen hogedrukbuis.</p> <p>Materiaal: Staal Fe 37.4 volgens DIN 1630 (Ws.nr. 1.0255).</p> <p>Uitvoering: REF. 1090; Volgens DIN 2391-DIN 2445/2 NBK Blank gegloeid volgens norm, in- en uitwendig tegen corrosie gefosfateerd en ingeölied, 100% op druk beproefd, gestempeld en afgeplugd. Toleranties volgens DIN 2391-1. REF. 1590; als REF. 1090, echter verzinkt en geel gepassiveerd.</p> <p>Keuringsrapport: Op aanvraag EN 10204 / DIN 50 049-3.1 B</p> <p>Lengtes: Circa 6 meter.</p> <p>Identificatie: REF. 1090; 2391/C 2445/2 + Fe 37.4 NBK. Deze markering vervangt een fabriekscontroleattest volgens DIN 50 049-2.2. REF. 1590; geen.</p> <p>Op aanvraag afwijkende afmetingen en materiaalsoorten leverbaar.</p>	<p>Type: Tube pour haute pression sans soudure.</p> <p>Matériel: Acier Fe 37.4 suivant DIN 1630 (Ws.nr. 1.0255).</p> <p>Exécution: REF. 1090; Suivant DIN 2391-DIN 2445/2 NBK Recuit blanc d'après norme, int. et ext. protégé contre la corrosion par phosphatage et huilage, testé 100%, estampillé et bouchonné. Tolérance suivant DIN 2391-1. REF. 1590; comme 1090, mais zingué et passivé jaune.</p> <p>Certificat de réception: Sur demande EN 10204 / DIN 50 049-3.1 B</p> <p>Longueurs: Environ 6 mètres.</p> <p>Identification: REF. 1090; 2391/C 2445/2 + Fe 37.4 NBK. Ce marquage remplace le certificat relevé contrôle d'après DIN 50 049-2.2. REF. 1590; inexistant</p> <p>Sur demande dimensions hors standard et autres matières livrables.</p>
<p>Type: Seamless cold drawn high pressure pipe.</p> <p>Material: Steel Fe 37.4. according to DIN 1630 (Ws.nr. 1.0255).</p> <p>Execution: REF. 1090; According to DIN 2391-DIN 2445/2 NBK Blank glow as per norm, internally and externally phosphated against corrosion and oiled, 100% tested for pressure, stamped and pugged. Tolerance according to DIN 2391-1. REF. 1590; as 1090, however zinc plated and yellow passivated.</p> <p>Inspection Certificate: On request EN 10204 / DIN 50 049-3.1 B</p> <p>Lengths: About 6 metres.</p> <p>Identification: REF. 1090; 2391/C 2445/2 + Fe 37.4 NBK. This mark replaces a test report according to DIN 50 049-2.2. REF. 1590; none</p> <p>On request other dimensions and types of materials available.</p>	<p>Typ: Nahtloses, kaltgezogenes hydraulisches Hochdruckrohr.</p> <p>Material: Stahl Fe 37.4. laut DIN 1630 (Ws.nr. 1.0255).</p> <p>Ausführung: REF. 1090; Laut DIN 2391-DIN 2445/2 NBK Blank gegläht laut Norm, innen und aussen phosphatiert gegen Korrosion und geölt, 100% geprüft auf Druck, gestempelt und versehen mit Staubkappen. Toleranz laut DIN 2391-1. REF. 1590; wie 1090, aber verzinkt und gelb passiviert.</p> <p>Abnahmeprüfzeugnis: Auf Anfrage EN 10204 / DIN 50 049-3.1 B</p> <p>Längen: Ungefähr 6 Meter.</p> <p>Identifizierung: REF. 1090; 2391/C 2445/2 + Fe 37.4 NBK. Diese Markierung ersetzt ein Werkzeugzeugnis laut DIN 50 049-2.2. REF. 1590; kein</p> <p>Auf Anfrage abweichende Abmessungen und Materialtypen lieferbar.</p>

ATZ Aandrijftechniek B.V. (026-3112611)

1

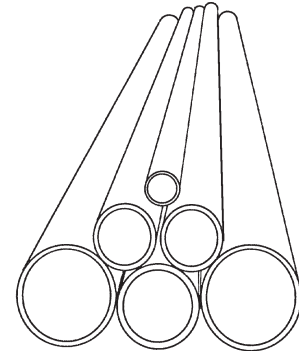
 mm	 mm	 BAR ¹⁾	 BAR ¹⁾	 BAR ¹⁾	 g/m	Fe 37.4 REF.	Fe 37.4/Zn/YP REF.
4	0,5	266	404	953	43	1090-04x0,5	
6	1	377	558	1320	123	1090-06x1,0	1590-06x1,0
6	1,5	565	792	2145	167	1090-06x1,5	1590-06x1,5
6	2	754	995	3120	197	1090-06x2,0	
8	1	282	430	953	173	1090-08x1,0	1590-08x1,0
8	1,5	424	619	1514	240	1090-08x1,5	1590-08x1,5
8	2	565	792	2145	296	1090-08x2,0	1590-10x2,0
10	1	239	370	746	222	1090-10x1,0	1590-10x1,0
10	1,5	359	538	1170	314	1090-10x1,5	1590-10x1,5
10	2	479	694	1634	395	1090-10x2,0	
12	1	199	308	612	271	1090-12x1,0	1590-12x1,0
12	1,5	299	455	953	389	1090-12x1,5	1590-12x1,5
12	2	399	591	1320	493	1090-12x2,0	1590-12x2,0
12	3	598	838	2145	670	1090-12x3,0	
14	1,5	256	394	804	462	1090-14x1,5	1590-14x1,5
14	2	342	514	1107	592	1090-14x2,0	1590-14x2,0
14	2,5	427	628	1430	709	1090-14x2,5	
14	3	513	736	1775	814	1090-14x3,0	
15	1,5	239	370	746	499	1090-15x1,5	1590-15x1,5
15	2	319	483	1024	641	1090-15x2,0	1590-15x2,0
16	1,5	224	347	695	536	1090-16x1,5	1590-16x1,5
16	2	299	455	953	691	1090-16x2,0	1590-16x2,0
16	2,5	374	558	1225	832	1090-16x2,5	1590-16x2,5
16	3	449	656	1514	961	1090-16x3,0	
18	1,5	199	308	612	610	1090-18x1,5	1590-18x1,5
18	2	266	408	837	789	1090-18x2,0	1590-18x2,0
18	2,5	332	501	1072	960	1090-18x2,5	
18	3	399	591	1320	1110	1090-18x3,0	
20	1,5	179	277	547	684	1090-20x1,5	
20	2	239	370	746	888	1090-20x2,0	1590-20x2,0
20	2,5	299	455	953	1079	1090-20x2,5	1590-20x2,5
20	3	359	538	1170	1258	1090-20x3,0	1590-20x3,0
20	4	479	694	1634	1578	1090-20x4,0	
22	1,5	163	252	495	758	1090-22x1,5	1590-22x1,5
22	2	217	336	673	986	1090-22x2,0	1590-22x2,0
22	2,5	272	417	858	1200	1090-22x2,5	
22	3	326	493	1050	1410	1090-22x3,0	
25	1,5	143	222	432	869		1590-25x1,5
25	2	191	296	586	1130	1090-25x2,0	1590-25x2,0
25	2,5	239	370	746	1387	1090-25x2,5	1590-25x2,5
25	3	287	438	911	1628	1090-25x3,0	1590-25x3,0
25	4	399	595	1259	2072	1090-25x4,0	
28	1,5	128	198	384	980	1090-28x1,5	1590-28x1,5
28	2	171	264	520	1282	1090-28x2,0	1590-28x2,0
28	2,5	213	330	660	1572	1090-28x2,5	1590-28x2,5
28	3	256	394	804	1850	1090-28x3,0	
30	2	159	246	483	2381	1090-30x2,0	
30	2,5	199	308	612	1696	1090-30x2,5	1590-30x2,5
30	3	239	370	746	1998	1090-30x3,0	1590-30x3,0
30	4	333	504	1024	2565	1090-30x4,0	1590-30x4,0
30	5	416	617	1320	3080	1090-30x5,0	
35	2	142	220	411	1628	1090-35x2,0	1590-35x2,0
35	2,5	178	275	520	2000	1090-35x2,5	1590-35x3,0
35	3	214	331	631	2368	1090-35x3,0	
35	4	285	437	863	3058	1090-35x4,0	
35	5	357	537	1107	3700	1090-35x5,0	
38	2,5	164	254	476	2190	1090-38x2,5	
38	3	197	305	578	2590	1090-38x3,0	
38	4	263	405	789	3354	1090-38x4,0	
38	5	328	498	1009	4069	1090-38x5,0	1590-38x5,0
38	7	460	674	1483	5352	1090-38x7,0	
42	2	119	183	339	1970	1090-42x2,0	
42	3	171	264	520	2886	1090-42x3,0	1590-42x3,0
42	4	238	367	707	3750	1090-42x4,0	
42	5	297	454	903	4560	1090-42x5,0	
45	4	222	343	656	4040	1090-45x4,0	
48	5	260	401	780	5300	1090-48x5,0	
50	3	149	231	432	3480	1090-50x3,0	
50	5	249	386	746	5548	1090-50x5,0	
50	6	299	457	911	6510	1090-50x6,0	1590-50x6,0
50	8	399	595	1259	8290	1090-50x8,0	
50	10	499	724	1634	9860	1090-50x10,0	
60	3	124	193	357	4220	1090-60x3,0	
60	5	208	321	612	6780	1090-60x5,0	
60	6	249	386	746	7990	1090-60x6,0	1590-60x6,0
60	8	333	504	1024	10260	1090-60x8,0	1590-60x8,0
65	8	307	468	937	11246	1090-65x8,0	1590-65X8,0

1) Volgens DIN 2413, F=1,5
 Suivant DIN 2413, F=1,5
 According to DIN 2413, F=1,5
 Laut DIN 2413, F=1,5

1091

ASTM A269
AISI 316 L





Roestvaststalen buis
Tube acier inoxydable
Stainless steel pipe
Rostfreistahlrohr



<p>Type: Naadloze roestvaststalen hogedrukbuïs</p> <p>Materiaal: Roestvaststaal Ws. nr. 1.4404 (AISI 316L)</p> <p>Uitvoering: Volgens DIN 17 458-1.4404-m (koud getrokken, blank gegloeïd). Toleranties volgens DIN 2462/1, D4/T3</p> <p>Lengtes: 5 - 7 meter.</p> <p>Keuringsrapport: Op aanvraag EN 10204 / DIN 50 049-3.1 B</p> <p>Op aanvraag afwijkende afmetingen en materiaalsoorten leverbaar.</p>	<p>Type: Tube pour haute pression sans soudure en acier inoxydable</p> <p>Matériel: Acier inoxydable Ws. nr. 1.4404 (AISI 316L)</p> <p>Exécution: Suivant DIN 17 458-1.4404-m (recuit blanc). Tolérance DIN 2462/1, D4/T3.</p> <p>Longueurs: 5 - 7 mètres.</p> <p>Certificat de réception: Sur demande EN 10204 / DIN 50 049-3.1 B</p> <p>Sur demande dimensions hors standard et autres matières livrables.</p>
<p>Type: Seamless stainless steel high pressure pipe</p> <p>Material: Stainless steel Ws. nr. 1.4404 (AISI 316L)</p> <p>Execution: According to DIN 17 458-1.4404-m (cold drawn, bright annealed). Tolerance according DIN 2462/1, D4/T3.</p> <p>Lengths: 5 - 7 metres.</p> <p>Inspection Certificate: On request EN 10204 / DIN 50 049-3.1 B</p> <p>On request other dimensions and types of materials available.</p>	<p>Typ: Nahtloses, rostfreistahles Hochdruckrohr</p> <p>Material: Edelstahl Ws.nr. 1.4404 (AISI 316L)</p> <p>Ausführung: Laut DIN 17 458-1.4404-m (kalt geformt, blank-geglüht) Toleranz DIN 2462/1, D4/T3.</p> <p>Längen: 5 - 7 Meter.</p> <p>Abnahmeprüfzeugnis: Auf Anfrage EN 10204 / DIN 50 049-3.1 B</p> <p>Auf Anfrage abweichende Abmessungen und Materialtypen lieferbar.</p>

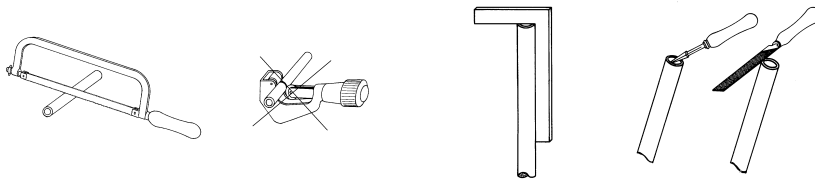
ATZ Aandrijftechniek B.V. (026-3112611)

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 mm	 mm	 BAR ¹⁾	 g/m	AISI 316L REF.
6 6	1 1,5	470 705	123 167	1091-06x1,0 1091-06x1,5
8 8 8	1 1,5 2	352 529 705	173 240 296	1091-08x1,0 1091-08x1,5 1091-08x2,0
10 10 10	1 1,5 2	282 423 564	222 314 395	1091-10x1,0 1091-10x1,5 1091-10x2,0
12 12 12	1 1,5 2	235 352 470	271 389 493	1091-12x1,0 1091-12x1,5 1091-12x2,0
14 14	2 2,5	403 503	592 709	1091-14x2,0 1091-14x2,5
15 15 15	1 1,5 2	188 282 376	350 499 641	1091-15x1,0 1091-15x1,5 1091-15x2,0
16 16 16 16	1 1,5 2 2,5	157 264 352 440	370 536 691 832	1091-16x1,0 1091-16x1,5 1091-16x2,0 1091-16x2,5
18 18	1,5 2	235 313	610 789	1091-18x1,5 1091-18x2,0
20 20 20 20	2 2,5 3 4	282 352 423 564	888 1079 1258 1580	1091-20x2,0 1091-20x2,5 1091-20x3,0 1091-20x4,0
22 22	1,5 2	192 256	758 986	1091-22x1,5 1091-22x2,0
25 25	2,5 3	282 338	1387 1630	1091-25x2,5 1091-25x3,0
28 28	2 3	201 302	1280 1850	1091-28x2,0 1091-28x3,0
30 30	3 4	282 376	200,0 2570	1091-30x3,0 1091-30x4,0
35 35	2,0 3,0	161 241	1630 2370	1091-35x2,0 1091-35x3,0
38 38	3 4	222 297	2590 3350	1091-38x3,0 1091-38x4,0
42 42	2 3	134 201	1970 2890	1091-42x2,0 1091-42x3,0

1) Volgens DIN 2413, F=1,5
 Suivant DIN 2413, F=1,5
 According to DIN 2413, F=1,5
 Laut DIN 2413, F=1,5

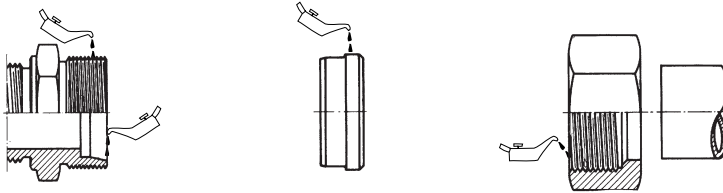
1)



1)

De buis haaks afzagen, bramen aan de binnen- en buitenzijde verwijderen en **goed schoonmaken**. Het gebruik van een pijpsnijder wordt afgeraden omdat dit een schuin snijvlak met veel braamvorming oplevert. Voor een optimale werking van de verbinding dient een **volledig contact** tussen het uiteinde van de buis en de aanslag in de koppeling aanwezig te zijn.

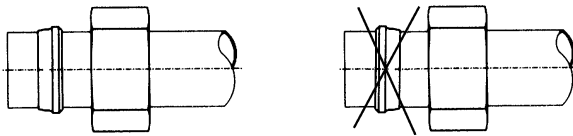
2)



2)

Draad en konus, snijring en wartelmoer aan binnenzijde goed oliën. Voor de montage van roestvaststalen snijringkoppelingen dient U gebruik te maken van "**anti-blok**" vet, om het invreten van de wartelmoer op de draadstukken te voorkomen.

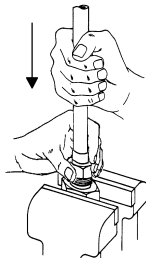
3)



3)

Eerst de wartelmoer dan snijring op de buis schuiven. De snijring dient met de **verdikte kant naar de wartelmoer** gericht te zijn, zodat de konus met de insnijdende kant in de konus van de koppeling valt.

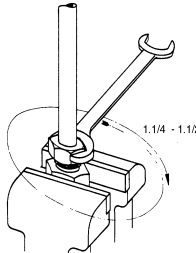
4)



4)

De buis in het draadstuk schuiven en vervolgens de wartelmoer **handvast aandraaien**. Let erop dat de buis goed tegen de aanslag van de koppeling drukt.

5)

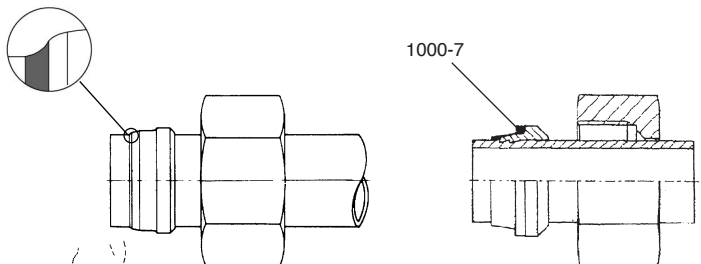


5)

Wartelmoer met een sleutel **circa 1.1/4-1.1/2 slag** aandraaien waarbij de buis niet mag meedraaien. Door een markering op de buis en wartelmoer aan te brengen, kan men nauwkeurig controleren of de voorgeschreven omwentelingen bereikt worden.

Let op: voor verbindingen met vaste konus en "O-ring" afdichting de moer max. 1/4-1/2 slag aantrekken.

6)

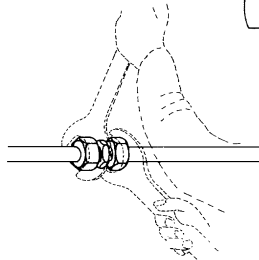


6)

Controle:

Wartelmoer losdraaien waarna de insnijding duidelijk zichtbaar moet zijn en de snijring moet volledig deze gemaakte insnijding vullen. De snijring mag eventueel wel te draaien zijn, echter niet voor- of achteruit geschoven kunnen worden. Bij toepassing van de LL7 elastische dichting, deze nu over de voormonteerde snijring schuiven.

7)

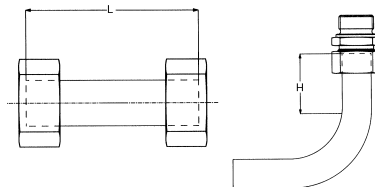


7)

Eind- of hermontage.

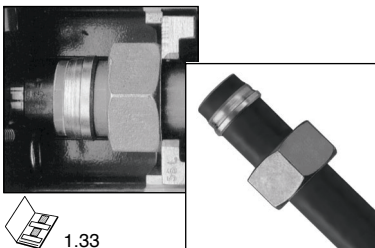
Na het demonteren dient bij hermontage de wartelmoer zonder te veel verhoogde kracht te worden aangedraaid. Bij montage na voormontage, dient de wartelmoer nog minimaal een 1/2 slag te worden aangedraaid na de voelbaar verhoogde weerstand. Dit laatste geldt dus ook voor standaard voormonteerde instelbare koppelingen. Ook deze koppelingen bij montage goed oliën.

8)



8)

Bij de montage van snijringkoppelingen moet voor rechte buis de minimum maat "L" en voor bochten de minimum maat "H" in acht worden genomen.



DIN 2353	LL						L										S							
↔	4	6	8	6	8	10	12	15	18	22	28	35	42	6	8	10	12	14	16	20	25	30	38	
H	24	25	26	31	31	33	33	36	38	42	42	48	48	35	35	37	37	43	43	50	54	58	65	
L	30	32	33	39	39	42	42	45	48	53	53	60	60	44	44	47	47	54	54	63	68	73	82	

Instructions de montage pour raccord à bagues

Assembly instructions cutting ring couplings

Montageanleitung Rohrverschraubungen

1) Couper le tube à angle droit, **nettoyer et ébavurer** le tube à l'extérieur et à l'intérieur. De préférence ne pas utiliser de coupe-tube car la face de coupe n'est pas droite et il y a beaucoup de bavures qui se créent. Pour obtenir un montage parfait il faut un **maximum de contact** entre le tube et la butée du raccord.

1) Cut the pipe right angled and lightly debur inside and outside, **remove all dirt and swarf**. Do not use a pipe cutter because the wall of the pipe will not be right angled and swarf will also be created. For a good connection it is necessary that there is a **total contact** between the tube end and the abutment in the couplingbody.

1) Rohr rechtwinklig abtrennen, innen und aussen leicht entgraten und **gut reinigen**. Keinen Rohrschneider verwenden. Der Gebrauch führt zu schiefen Schneidebenen und Grat. Um eine **optimale Verbindung** zu bekommen muss ein vollständiger Kontakt zwischen dem Rohr und dem Innenkonus vorhanden sein.

2) Huiler la bague coupante, l'écrou, la partie filetée du raccord et le cône 24 degrés. Pour le montage des raccords en acier inox il est nécessaire d'utiliser une graisse "**Anti-blocage**" pour éviter le grippage des écrous.

2) Oil all threads, cutting ring and inner cone of stud. (This facilitates assembly). To avoid damage of the thread and easier assembling of stainless steel couplings, you should use "**Anti-Block**" grease.

2) Gewinde, Innenkonus, Schneidring und Überwurfmutter einölen. Um Beschädigungen vom Gewinde zu vermeiden, sollten Sie bei der Montage von rostfreistählen Verschraubungen "**Anti-Block**" Fett verwenden.

3) Glisser l'écrou sur le tube, puis la bague coupante avec le **côté le plus épais vers l'écrou**, de façon que le cône avec face coupante tombe dans le cône de la pièce filetée.

3) Place the nut and cutting ring on the pipe. Ensure that **the thicker end of the ring is facing the nut**.

3) Zuerst Überwurfmutter und dann Schneidring auf das Rohr schieben. Der Schneidring muss mit der **dicken Seite zur Überwurfmutter** gerichtet sein, damit die Schneidkante in den Innenkonus des Verschraubungs-stutzens passt.

4) Le tube en appui, **visser l'écrou à la main** jusqu'au blocage.

4) Push the pipe into the coupling body, be sure that the end of the pipe is touching the stop at the bottom of the cone. Tighten the nut **by hand** as much as possible.

4) Überwurfmutter von **Hand festziehen** und gleichzeitig das Rohr gegen den Anschlag im Stutzen-innenkonus drücken. Achtung: man muss das Rohr gegen den Anschlag drücken.

5) Serrer l'écrou 1.1/4-1.1/2 tours à l'aide d'une clef adéquate en évitant toute rotation de tube pendant le serrage. Un marquage sur le corps de raccord ainsi que sur l'écrou vous permet de contrôler **si le 1.1/4-1.1/2 tours** ont été obtenus.

5) Tighten the nut by a spanner **± 1.1/4-1.1/2 turn**, the pipe does not turn during the tightening. To be sure that you are reaching the prescribed turns it is necessary to mark the pipe and the nut.

5) Überwurfmutter mit Schlüssel **1.1/4-1.1/2** Umdrehungen anziehen, wobei sich das Rohr nicht mitdrehen darf. Markierungsstriche auf Rohr und Überwurfmutter erleichtern Beobachtungen der vorgeschriebenen Umdrehungen.

Attention: pour les nouveaux raccords avec cône fixe et joint torique serrer l'écrou maximum 1/4-1/2 de tour.

Attention: for connections with pre-mounted cutting ring, solid cone and "O-ring" sealing fasten the nut maximum 1/4 till 1/2 turn.

Achtung: Für Verbindungen mit vormontiertem Schneidringe, festem Konus und O-Ring Abdichtung, Mutter maximal 1/4 bis 1/2 Umdrehung andrehen.

6) **Contrôle:** Dévisser l'écrou, l'incision de la bague dans le tube doit être visible. La bague coupante peut tourner sur son axe, par contre elle ne peut pas glisser en arrière ou en avant. En cas d'application de la bague coupante avec le joint elastique LL7, monter le joint elastique sur la bague coupante prémonter.

6) **Check:** Loosen the nut and break assembly. Check if the cut-ting ring has caused a cutting edge. A visible collar must fill out the space in front of the cutting ring. Check that the ring is held firmly in place on the pipe and cannot move along it; a slight rotation is permissible. When using the LL7 soft seal, place the elastic seal over the premounted cutting ring.

6) **Kontrolle:** Überwurfmutter lösen, worauf der Einschnitt deutlich sichtbar sein muß und der Schneidring muss die gemachte Schneidfläche vollständig ausfüllen. Der Schneidring darf sich drehen, jedoch nicht axial verschieben lassen. Falls der elastische Dichtung LL7 verwendet wird, diese Dichtung über der vormontierte Schneidring schieben.

7) Montage définitif: Le montage définitif après prémontage doit se faire avec $\pm 1/2$ tour de l'écrou après que l'on ait ressenti une résistance au montage. Ceci est également valable pour des raccords livrés prémontés. Ces raccords doivent également être huilés avant le montage définitif. Quand un raccord qui a été définitivement monté, et demonté, il faut veiller à ne pas trop forcer l'écrou lors du remontage.


7) Final- and re-assembly After dismantling, the nut must be re-tightened without using excessive force. The nut of a pre-assembled coupling must be tightened minimum 1/2 turn after feeling the perceptible resistance. This applies also for standard pre-assembled couplings which also must be oiled before assembling.

7) End- oder Wiederholungsmontage: Nach jedem Lösen ist bei der Wiederholungsmontage die Mutter ohne erhöhten Kraftaufwand festzuziehen. Bei der Endmontage muss die Überwurfmutter minimal 1/2 Umdrehung über den Punkt des deutlich fühlbaren Kraftanstieges angezogen werden. Diese Montagevorschrift gilt auch für standard gelieferte einstellbare Verschraubungen. Endmontageverschraubungen auch gut einölen.

8) Pour le montage de raccords à bague coupante il faut tenir compte de la dimension minimum "L" pour les tubes droits et avec la dimension minimum "H" pour les tubes coudés.

8) With the assembly of cutting ring couplings, for a straight tube minimum size "L" and for corners minimum size "H" is to be considered.

8) Bei der Montage von Rohrverschraubungen soll man für gerade Rohre minimum Mass "L" und für Rohrbogen minimum Mass "H" berücksichtigen.

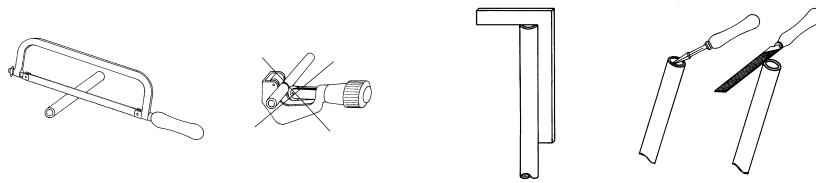
DIN 2353	LL			L										S									
	4	6	8	6	8	10	12	15	18	22	28	35	42	6	8	10	12	14	16	20	25	30	38
H	24	25	26	31	31	33	33	36	38	42	42	48	48	35	35	37	37	43	43	50	54	58	65
L	30	32	33	39	39	42	42	45	48	53	53	60	60	44	44	47	47	54	54	63	68	73	82

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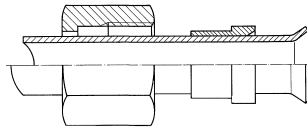
1)



1)

De buis haaks afzagen, bramen aan de binnen- en buitenzijde verwijderen en **goed schoonmaken**. Geen pijpsnijder gebruiken omdat dit een schuin snijvlak met veel braamvorming oplevert.

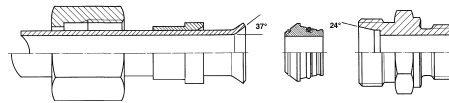
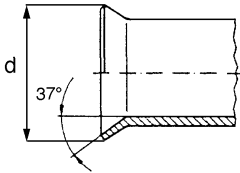
2)



2)

De wartelmoer en tussenring op de buis schuiven. De tussenring dient met de **dunne kant naar de wartelmoer** gericht te zijn, zodat de wartelmoer over de tussenring heen schuift.

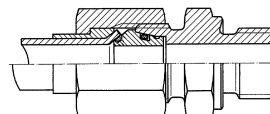
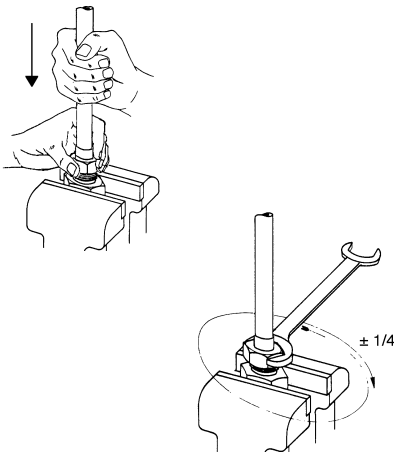
3)



3)

Aan het uiteinde van de buis met een flaregereedschap of flaremachine een flarerand aanbrengen. De diameter "d" van de flarerand moet binnen de waarden liggen die in de onderstaande (6) tabel zijn weergegeven. Belangrijk: bij een te kleine flarerand zal geen goede montage en/of afdichting mogelijk zijn. De flarekonus moet tijdens het flaren haaks op de buis staan en concentrisch met de drukring zijn, de binnenkonus braamvrij en schoon.

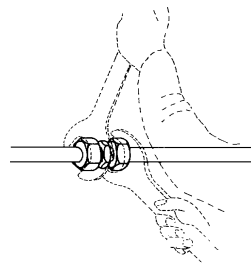
4)



4)

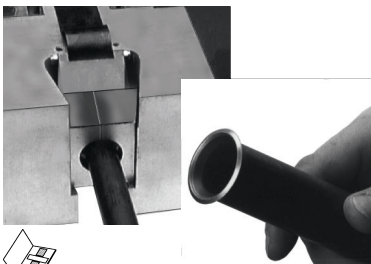
De drukring met cilindrische zijde in het koppelingshuis aanbrengen en de buis met de flarerand tegen de drukring plaatsen. Vervolgens de wartelmoer handvast aandraaien. Hierna de wartelmoer met een sleutel aandraaien zodat de drukring in het koppelingshuis wordt gedrukt. Als er bij het aandraaien van de wartelmoer voelbaar verhoogde kracht nodig is, de moer nog $\pm 1/4$ slag aandraaien.

5)



5)

Na iedere demontage, bij hermontage de wartelmoer zonder te veel verhoogde kracht aandraaien.



1.33

6)

	6	8	10	12	14	15	16	18	20	22	25	28	30	35	38	42	
d	min.	9,1	11,3	13,1	15,3	18,6	19,1	20,6	23,2	25,6	26,5	31,1	32,7	37	41,8	46	48,8
	max.	10	12	14	16,2	19,6	20,2	22	24,2	27,8	27,8	33	33,8	38,9	42,7	47,2	49,8

Instructions de montage pour tube évasé 37°

Assembly instructions for flare couplings 37°

Montageanleitung Bördel-Verschraubungen 37°

1)
Couper le tube à angle droit, **nettoyer et ébavurer** le tube à l'extérieur et à l'intérieur.
De préférence ne pas utiliser de coupe-tube car la face de coupe n'est pas droite et il y a beaucoup de bavures qui se créent.

1)
Cut the pipe right angled and lightly debur inside and outside, **remove all dirt and swarf**.
Do not use a pipe cutter because the wall of the pipe will not be right angled and warf will also be created.

1)
Rohr rechtwinklig abtrennen, innen und aussen leicht entgraten und **gut reinigen**.
Keinen Rohrschneider verwenden. Der Gebrauch führt zu schiefen Schneideebenen und Graten.

2)
Glisser l'écrou sur le tube, puis la manchette avec **le côté le plus petit vers l'écrou afin que l'écrou glisse au-dessus de la manchette**.

2)
Slide the nut and flare sleeve on the pipe.
Ensure that **the thinner end of the sleeve is facing the nut**.

2)
Zuerst Überwurfmutter und dann Zwischenring auf das Rohr schieben. Der Zwischenring muss mit der **dünnen Seite zur Überwurfmutter** gerichtet sein.

3)
A l'extrémité du tube il faut exécuter un évasement de 37°. Le diamètre "d" du cône évasé doit rester dans les limites indiquées dans le tableau no. 6 ci-dessous. Attention: un cône évasé trop petit ne peut pas assurer un bon fonctionnement du raccord.
Le cône d'évasement doit être parfaitement en angle droit par rapport au tube pendant l'opération d'évasement. Le cône intérieur doit être propre et sans bavure.

3)
Flare the end of the tube with a flaring tool or flaring machine. The flaring diameter "d" may not be out of the limits given in the table (6). Important: if the flare is too short, proper operation of the fitting cannot be guaranteed. The flare cone must be square to the tubular axle and concentric to the collar. The inner cone must be clean and free of flutes.

3)
Rohr mit Bördelwerkzeug oder Maschine bördeln. Der Bördeldurchmesser "d" darf nicht außerhalb der in der Tabelle (6) angegebenen Grenzen liegen. Wichtig: zu kleine Bördelkegel bieten keine Gewähr für einwandfreie Funktion der Verschraubung. Der Bördelkegel muß rechtwinklig zur Rohrachse und zentrisch zum Druckring sein, der Innenkegel riefenfrei und sauber.

4)
Il faut introduire la manchette avec le côté cylindrique dans le corps du raccord et placer le tube avec le cône évasé contre la manchette. Ensuite serrer l'écrou à la main et alors il faut serrer l'écrou avec une clef afin que la manchette soit comprimée dans le corps du raccord. Lorsque pendant le serrage de l'écrou l'on ressent une résistance il faut encore tourner un quart de tour.

4)
Insert the adaptor into the coupling body and press the flared tube onto the adaptor.
Tighten the nut by hand as much as possible. Tighten the nut with a spanner until the adaptor is pressed captively into the coupling body. When the torque must be intensified, tighten the nut approx. 1/4 turn more.


4)
Zwischenring mit zylindrischer Seite in den Verschraubungsstutzen einsetzen und das aufgebördelte Rohr an den Zwischenring andrücken. Überwurfmutter handfest anziehen. Überwurfmutter mit dem Schlüssel anziehen, bis der Zwischenring unverlierbar in den Stutzen gepreßt ist. Bei Kraftanstieg die Überwurfmutter ± 1/4 Umdrehung weiter anziehen.

5)
Après chaque démontage ou remontage il faut serrer l'écrou sans trop de force.

5)
After dismantling, the nut must be re-tightened without using excessive force.

5)
Nach jedem Lösen, bei der Wiederholungsmontage die Mutter ohne erhöhten Kraftaufwand festziehen.

6)

	6	8	10	12	14	15	16	18	20	22	25	28	30	35	38	42
min.	9,1	11,3	13,1	15,3	18,6	19,1	20,6	23,2	25,6	26,5	31,1	32,7	37	41,8	46	48,8
max.	10	12	14	16,2	19,6	20,2	22	24,2	27,8	27,8	33	33,8	38,9	42,7	47,2	49,8

Bepaling buislengte Calculer la longueur du tube

FLARE

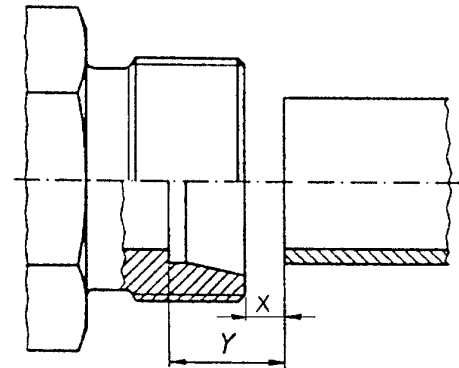
Determining tube length Rohrlängenbestimmung

Voor de bepaling van de buislengte vóór het flaren moet de maat "X" van ieder buiseinde, dat op een koppelingshuis moet worden aangesloten, afgetrokken worden. Met behulp van de maat Y in de tabel kan de buislengte berekend worden. De maat Y geeft het verschil in buislengte aan tussen een flarekoppeling en een snijringkoppeling.

Pour déterminer la longueur du tube avant l'opération d'évasement il faut soustraire la dimension "X" de chaque extrémité de tube. A l'aide de la dimension Y dans le tableau ci-dessous vous pouvez calculer la longueur du tube. La dimension Y donne la différence de longueur de tube entre un raccord évasé et un raccord à bague coupante.

In order to determine the length of the tube before flaring, the dimension "X" must be deducted from each tube end which is to be connected to a coupling body. When using the dimension tables to calculate the tube length, the dimension Y must be used. Y represents the difference in tube length between the flare coupling and the cutting

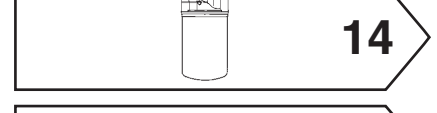
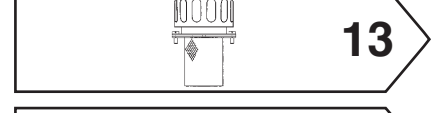
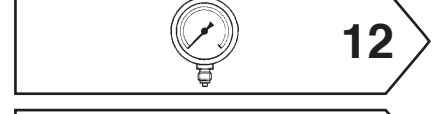
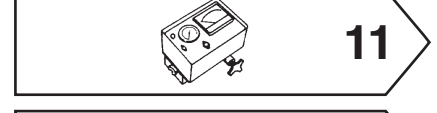
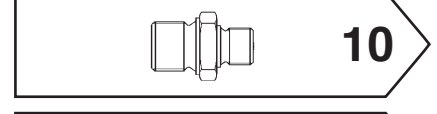
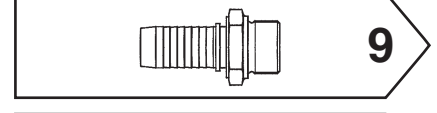
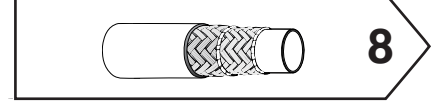
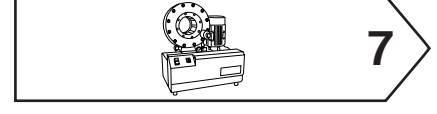
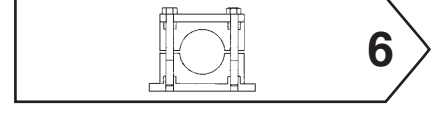
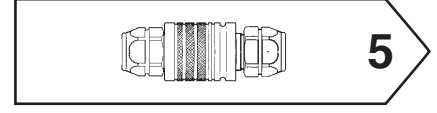
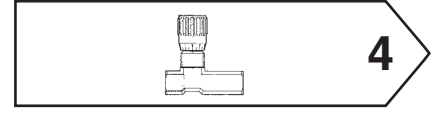
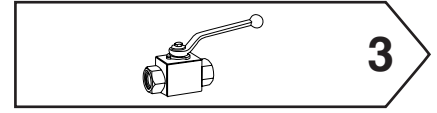
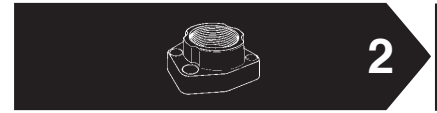
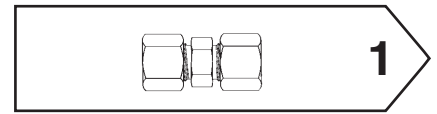
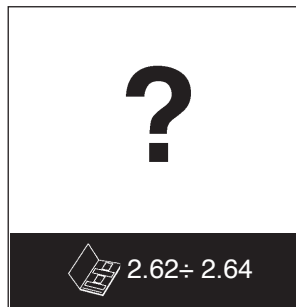
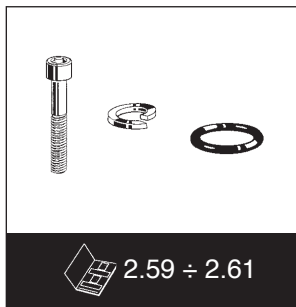
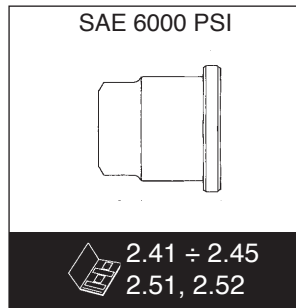
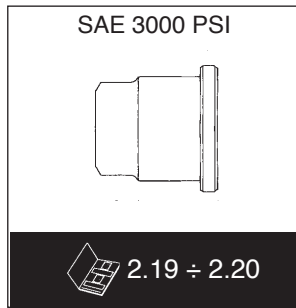
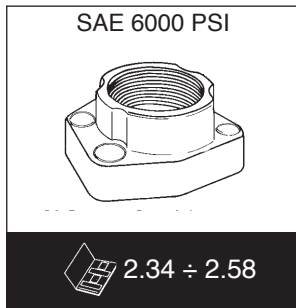
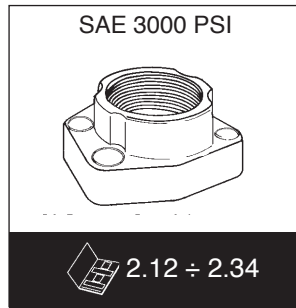
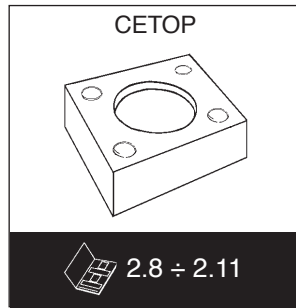
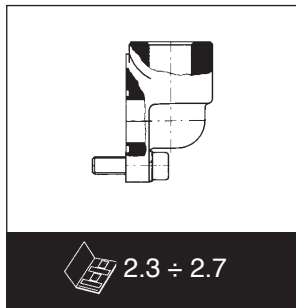
Die erforderliche Länge des ungebördelten Rohres ergibt sich durch Abzug des Masses "X" für jedes Rohrende. Aufgrund der Massangaben in den einzelnen Masstabellen ist eine rechnerische Bestimmung der Rohrlänge nur mit dem Mass Y möglich. Y entspricht der Rohrlängendifferenz zwischen Bördel- und Schneidringverschraubung



	Y	X
6x1 6x1,5	8 9	1 1
8x1 8x1,5 8x2	8 9 9,5	2 1 2,5
10x1 10x1,5 10x2	8 2 10	1 2 3
12x1 12x1,5 12x2	8 9 10	1 2 3
14x1,5 14x2 14x2,5 14x3	8,5 9 10 11	0,5 1 2 3
15x1,5 15x2 15x2,5	8 9 10	1 2 3
16x1,5 16x2 16x2,5 16x3 18x1,5 18x2 18x2,5	8,5 9,5 10 11 7,5 8,5 9,5	0 1 1,5 2,5 0 1 1,5
20x2 20x2,5 20x3 20x3,5	11,5 12,5 13,5 14,5	1 2 3 4

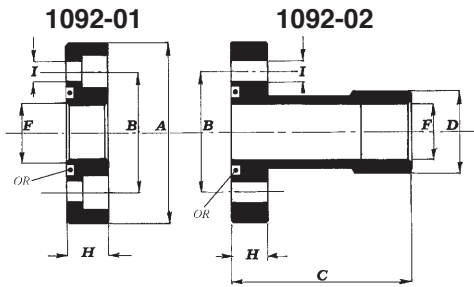
	Y	X
22x1,5 22x2 22x2,5 22x3	8,5 9,5 10,3 11	1 2 3 3,5
25x2 25x2,5 25x3 25x4	13 13,5 14,5 14	1 1,5 2,5 4
28x2 28x2,5 28x3	9 10 10,5	1,5 2,5 3
30x2 30x2,5 30x3 30x4 30x5	13 14 14,5 16,5 18	-0,5 0,5 1 3 4,5
35x2 35x2,5 35x3 35x4	12 12,5 13,5 15	1,5 2 3 4,5
38x2,5 38x3 38x4 38x5	16 16,5 18 20	0 0,5 2 4
42x2 42x3 42x4	12,5 14 15,5	1,5 3 4,5

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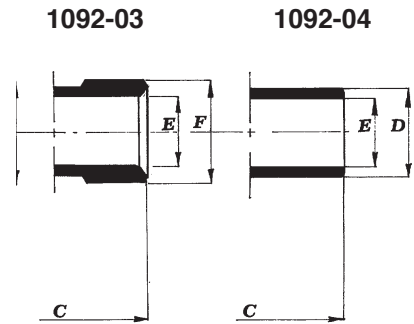
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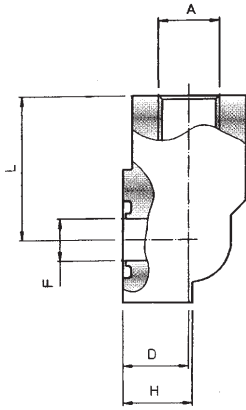
Flens voor hydraulische pomp
Bride pour pompe hydraulique
Flange for hydraulic pump
Flansch für Hydraulikpump



2

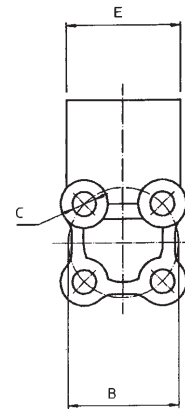
			Ø A	B	C	D	E	F BSPP	H	I			Fe/Zn REF.		
1	600	18,8x1,78	45	30	-	-	-	G3/8	13	6,5	4x	M6x16	1092-01-01		
					21	-	14	G1/2	10				4x	M6x20	1092-02-01
					-	-		-	-						1092-03-01
					19	-		-	-						1092-04-01
2	600	25,1x1,78	58	40	-	-	-	G1/2	15	8,5	4x	M8x20	1092-01-02		
					26,5	-	19	G3/4	12				4x	M8x25	1092-02-02
					-	-		-	-						1092-03-02
					25,4	-		-	-						1092-04-02
3A	600	31,4x2,62	75	51	-	-	-	G3/4	18	10,5	4x	M10x25	1092-01-3A		
					33,5	-	72	G1	16				4x	M10x35	1092-02-3A
					-	-		-	-						1092-03-3A
					32	24,5		-	-						1092-04-3A
3B	600	31,4x2,62	76	56	-	-	-	G3/4	18	10,5	4x	M10x25	1092-01-3B		
					33,5	-	72	G1	16				4x	M10x35	1092-02-3B
					-	-		-	-						1092-03-3B
					32	24,5		-	-						1092-04-3B
3,5A	600	39,7x3,53	88	62	-	-	-	G1	20	10,5	4x	M10x25	1092-01-3,5A		
12,5					-	-	-	1092-01-3,5B							
12,5					-	-	-	1092-01-3,5B							
4	600	47,2x3,53	98	72,5	-	-	-	G1.1/4	22	12,5	4x	M12x30	1092-01-4		

<p>Toepassing: Voor montage op hydraulische pompen</p> <p>Montage: Door middel van 4 binnenzeskantbouten</p> <p>Uitvoering: Verzinkt staal, worden geleverd met 4 bouten, veerringen en een O-ring</p>	<p>Application: Pour montage sur pompes hydrauliques</p> <p>Montage: Avec 4 vis à tête cylindrique à six pans creux</p> <p>Composition: En acier zingué, ils sont fournis avec 4 vis boulons, joints ressort et O-ring</p>
<p>Application: For mounting on hydraulic pumps</p> <p>Mounting: With 4 hexagon socketheadcap screw bolts</p> <p>Construction: Zinc plated steel, they are delivered with 4 bolts and O-ring</p>	<p>Anwendung: Für Montage auf hydraulische Pumpen</p> <p>Montage: Mit 4 Zylinderschrauben mit Innensechskant</p> <p>Aufbau: Verzinkt Stahl, werden geliefert mit 4 Schrauben, Federringen und O-Ring</p>



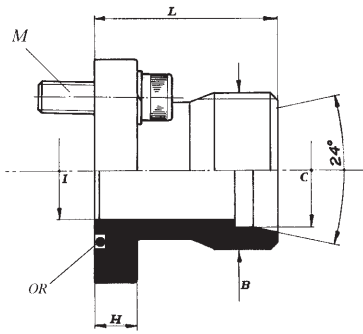
1092-10
1092-11
1092-13

Haakse pompflens
Bride coudée pour pompe
Elbow pump flange
Winkelpumpflansch



A BSPP	BAR		B	C	D	E	F	H	L			OR	Al. REF.
G3/8	180	30	30	6,5	18	33	11,5	20	39	M6x30	M6x40	2056	1092-10-G017
G1/2	180	30	30	6,5	18	33	11,5	20	39	M6x30	M6x40	2056	1092-10-G021
G3/8	180	35	35	6,5	18	34	14	20	42,5	M6x30	M6x40	121	1092-11-G017
G1/2	180	35	35	6,5	18	34	14	20	42,5	M6x30	M6x40	121	1092-11-G021
G3/8	180	40	40	6,5	24	41	18	28	47,5	M6x40	M6x50	130	1092-12-G021
G3/4	180	40	40	6,5	24	41	18	28	47,5	M6x40	M6x50	130	1092-12-G027
G3/4	180	55	55	8,5	29	49	24,5	31	54	M8x45	M8x60	4118	1092-13-G027
G1	180	55	55	8,5	29	49	24,5	31	54	M8x45	M8x60	4118	1092-13-G033

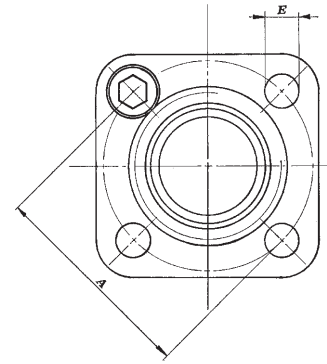
<p>Toepassing: Voor montage op Bosch pompen of identieke pompen</p> <p>Montage: Door middel van 4 binnenzeskantbouten</p> <p>Uitvoering: Thermisch behandelde aluminium legering, worden geleverd met 4 bouten, veerringen en O-ring</p>	<p>Application: Pour montage sur pompes Bosch et similaires</p> <p>Montage: Avec 4 vis à tête cylindrique à six pans creux</p> <p>Composition: Un alliage d'aluminium trempé. Fournis avec 4 vis boulons, joints ressort et O-ring</p>
<p>Application: For mounting on Bosch pumps or equivalent</p> <p>Mounting: With 4 hexagon sockethead cap screw bolts</p> <p>Construction: Thermic treated aluminium alloy. They are supplied with 4 bolts, spring rings and O-ring</p>	<p>Anwendung: Für Montage auf Bosch Pumpen oder gleichwertige Pumpen.</p> <p>Montage: Mit 4 Zylinderschrauben mit Innensechskant</p> <p>Aufbau: Gehärtete aluminium Legierung. Lieferung mit 4 Schrauben, Federringen und O-Ring</p>



1092-16

CEL/CES
DIN 2353 24°

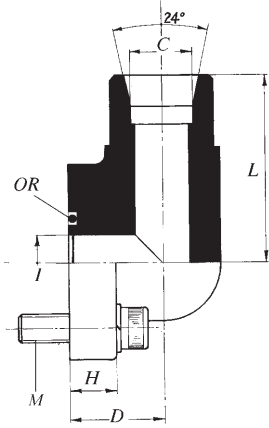
Pomplens
Bride pour pompe
Pump flange
Pumpflansch



2

DIN 2353	B METR.	BAR	A	C	E	H	I	L	M	OR		Fe/Zn/YP REF.
10L	M16x1,5	315	35	10	6,5	8	8	30	M6x20	3075	18,7x2,62	1092-16-35-10L
12L	M18x1,5	315	35	12	6,5	8	10	30	M6x20	3075	18,7x2,62	1092-16-35-12L
15L	M22x1,5	250	35	15	6,5	8	12	30	M6x20	3075	18,7x2,62	1092-16-35-15L
16S	M24x1,5	315	35	16	6,5	8	12	30	M6x20	3075	18,7x2,62	1092-16-35-16S
15L	M22x1,5	100	40	15	6,5	8	12		M6x20	3100	25,0x2,62	1092-16-40-15L
18L	M26x1,5	100	40	18	6,5	8	15		M6x20	3100	25,0x2,62	1092-16-40-18L
22L	M30x2	100	40	22	6,5	8	19	35	M6x20	3100	25,0x2,62	1092-16-40-22L
28L	M36x2	100	40	28	6,5	8	19	40	M6x20	3100	25,0x2,62	1092-16-40-28L
20S	M30x2	250	40	20	6,5	8	16	35	M6x20	3100	25,0x2,62	1092-16-40-20S
20S	M30x2	250	55	20	8,5	12	16	50	M8x25	3125	31,4x2,62	1092-16-55-20S
25S	M36x2	250	55	25	8,5	12	20	50	M8x25	3125	31,4x2,62	1092-16-55-25S
30S	M42x2	250	55	30	8,5	12	26	50	M8x25	3125	31,4x2,62	1092-16-55-30S
35L	M45x2	100	55	35	8,5	12	26	50	M8x25	3125	31,4x2,62	1092-16-55-35L

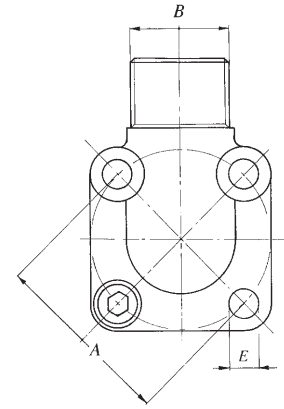
<p>Toepassing: Voor montage op Bosch pompen of identieke pompen</p> <p>Montage: Door middel van 4 binnenzeskantbouten</p> <p>Uitvoering: Staal, worden geleverd met 4 bouten, veerringen en O-ring</p>	<p>Application: Pour montage sur pompes Bosch et similaires</p> <p>Montage: Avec 4 vis à tête cylindrique à six pans creux</p> <p>Composition: Acier, fournis avec 4 vis boulons, joints ressort et O-ring</p>
<p>Application: For mounting on Bosch pumps or equivalent</p> <p>Mounting: With 4 hexagon sockethead cap screw bolts</p> <p>Construction: Steel, they are supplied with 4 bolts, spring rings and O-ring</p>	<p>Anwendung: Für Montage auf Bosch Pumpen oder gleichwertige Pumpen.</p> <p>Montage: Mit 4 Zylinderschrauben mit Innensechskant</p> <p>Aufbau: Stahl, Lieferung mit 4 Schrauben, Federringen und O-Ring</p>



1092-18

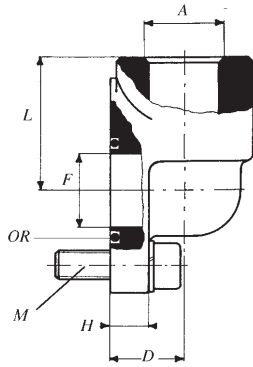
CEL/CES
DIN 2353 24°

Haakse pompflens
Bride coudée pour pompe
Elbow pump flange
Winkelpumpflansch



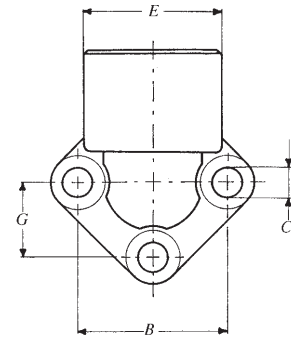
DIN 2353	B METR.	BAR	A	C	D	E	H	I	L	M (2x)	M (2x)	OR	Fe/Zn/YP REF.
10L	M16x1,5	315	35	10	16,5	6,5	8	8	38	M6x20	M6x35	18,7x2,62	1092-18-35-10L
12L	M18x1,5	315	35	12	16,5	6,5	8	10	38	M6x20	M6x35	18,7x2,62	1092-18-35-12L
15L	M22x1,5	250	35	15	16,5	6,5	8	12	38	M6x20	M6x35	18,7x2,62	1092-18-35-15L
16S	M24x1,5	315	35	16	20	6,5	8	12	40	M6x20	M6x40	18,7x2,62	1092-18-35-16S
15L	M22x1,5	100	40	15	22,5	6,5	8	12	38	M6x20	M6x40	25,0x2,62	1092-18-40-15L
18L	M26x1,5	100	40	18	22,5	6,5	8	15	38	M6x20	M6x40	25,0x2,62	1092-18-40-18L
22L	M30x2	100	40	22	22,5	6,5	8	18	38	M6x20	M6x40	25,0x2,62	1092-18-40-22L
28L	M36x2	100	40	28	28	6,5	8	18	40	M6x20	M6x50	25,0x2,62	1092-18-40-28L
20S	M30x2	250	40	20	22,5	6,5	8	16	40	M6x20	M6x40	25,0x2,62	1092-18-40-20S
35L	M45x2	100	55	35	31	8,5	12	26	49	M8x25	M8x60	31,4x2,62	1092-18-55-35L
20S	M30x2	250	55	20	24	8,5	12	16	46	M8x25	M8x45	31,4x2,62	1092-18-55-20S
25S	M36x2	250	55	25	31	8,5	12	20	49	M8x25	M8x60	31,4x2,62	1092-18-55-25S
30S	M42x2	250	55	30	31	8,5	12	26	49	M8x25	M8x60	31,4x2,62	1092-18-55-30S
42L	M52x2	100	55	42	40	8,5	12	26	49	M8x25	M8x70	31,4x2,62	1092-18-55-42L
38S	M52x2	250	55	38	40	8,5	12	26	49	M8x25	M8x70	31,4x2,62	1092-18-55-38S

<p>Toepassing: Voor montage op Bosch pompen of identieke pompen</p> <p>Montage: Door middel van 4 binnenzeskantbouten</p> <p>Uitvoering: Staal, worden geleverd met 4 bouten, veerringen en O-ring</p>	<p>Application: Pour montage sur pompes Bosch et similaires</p> <p>Montage: Avec 4 vis à tête cylindrique à six pans creux</p> <p>Composition: Acier, fournis avec 4 vis boulons, joints ressort et O-ring</p>
<p>Application: For mounting on Bosch pumps or equivalent</p> <p>Mounting: With 4 hexagon sockethead cap screw bolts</p> <p>Construction: Steel, they are supplied with 4 bolts, spring rings and O-ring</p>	<p>Anwendung: Für Montage auf Bosch-Pumpen oder gleichwertige Pumpen.</p> <p>Montage: Mit 4 Zylinderschrauben mit Innensechskant</p> <p>Aufbau: Stahl, Lieferung mit 4 Schrauben, Federringen und O-Ring</p>



1092-21

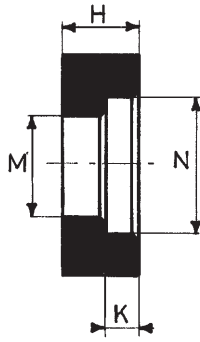
Haakse pompflens
Bride coudée pour pompe
Elbow pump flange
Winkelpumpflansch



2

	A BSPP	BAR	B	C	D	E	F	G	H	L	M	OR	Fe/Zn REF.
0,5	G3/8	600	26	5,5	17	30	11	13	9	28	M5x18	15,6x1,78	1092-21-05-G017
0,5	G1/2	600	26	5,5	17	30	11	13	9	28	M5x18	15,6x1,78	1092-21-05-G021
1	G3/8	600	30	6,5	17	30	12	15	9	28	M6x20	15,9x2,62	1092-21-10-G017
1	G1/2	600	30	6,5	17	30	12	15	9	28	M6x20	15,9x2,62	1092-21-10-G021
2	G1/2	600	40	8,5	23	36	18	20	11,5	36	M8x25	23,8x2,62	1092-21-20-G021
2	G3/4	600	40	8,5	23	36	18	20	11,5	36	M8x25	23,8x2,62	1092-21-20-G027
3	G3/4	600	51	10,5	26	45	24	25,5	13	46	M10x30	29,7x3,53	1092-21-30-G027
3	G3/4	200	56	10,5	26	45	24	28	13	46	M10x30	29,7x3,53	1092-21-31-G027
3	G1	600	51	10,5	26	45	24	25,5	13	46	M10x30	29,7x3,53	1092-21-30-G033
3	G1	200	56	10,5	26	45	24	28	13	46	M10x30	29,7x3,53	1092-21-31-G033
3,5	G1	600	62	11	35	55	25	31	14	55	M10x30	37,7x3,53	1092-21-35-G033
3,5	G1	180	62	13	35	55	25	31	14	55	M12x35	37,7x3,53	1092-21-36-G033
3,5	G1.1/4	600	62	11	35	55	31	31	14	55	M10x30	37,7x3,53	1092-21-35-G042
3,5	G1.1/4	180	62	13	35	55	31	31	14	55	M12x35	37,7x3,53	1092-21-36-G042
4	G1.1/4	600	72,5	13	38	62	31	36,2	15	58	M12x35	47,2x3,53	1092-21-40-G042
4	G1.1/2	600	72,5	13	38	62	38	36,2	15	58	M12x35	47,2x3,53	1092-21-40-G049

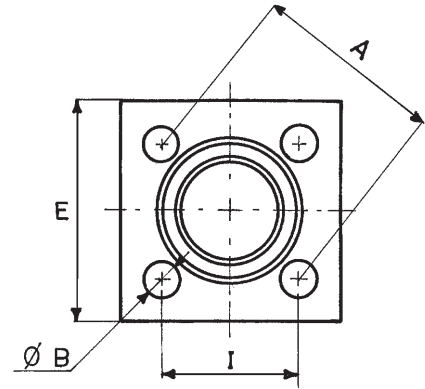
<p>Toepassing: Voor montage op hydraulische pompen of motoren</p> <p>Montage: Door middel van 3 binnenzeskantbouten</p> <p>Uitvoering: Staal, worden geleverd met 3 bouten, veerringen en O-ring</p>	<p>Application: Pour montage sur pompes ou moteurs hydrauliques</p> <p>Montage: Avec 3 vis à tête cylindrique à six pans creux</p> <p>Composition: Acier, fournis avec 3vis boulons, joints ressort et O-ring</p>
<p>Application: For mounting on hydraulic pumps or motors</p> <p>Mounting: With 3 hexagon sockethead cap screw bolts</p> <p>Construction: Steel, they are supplied with 3 bolts, spring rings and O-ring</p>	<p>Anwendung: Für Montage auf hydraulische Pumpen oder Motoren</p> <p>Montage: Mit 3 Zylinderschrauben mit Innensechskant</p> <p>Aufbau: Stahl, Lieferung mit 3 Schrauben, Federringen und O-Ring</p>



1092-25

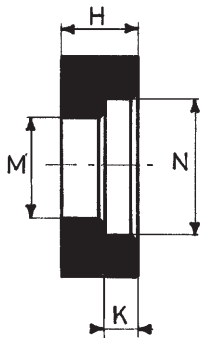
250 BAR

CETOP/SID* flens
Bride CETOP/SID*
CETOP/SID* flange
CETOP/SID* Flansch



CETOP	BAR	A		E	I	I*	K	N	M	B	B*	H	Fe/P REF. CETOP	Fe/P REF.* SID
		CETOP	SID											
3/8"	250	35	-	40	24,7	-	6,3	25,1	18,5	6,5	-	14	1092-25-24-G017	1092-25-24-G017-1
1/2"		42	-	45	29,7	30	6,3	31	24,4	8,5	6,5	15	1092-25-24-G021	1092-25-24-G021-1
3/4"		50	-	50	35,3	35,3	6,3	38,9	32,1	8,5	8,5	16	1092-25-24-G027	1092-25-24-G027-1
1"		62	-	65	43,8	43,8	7,5	45,3	38,5	11	11	18	1092-25-24-G033	1092-25-24-G033-1
1.1/4"		73	-	75	51,6	51,6	7,5	51,6	43,7	13	13	22	1092-25-24-G042	1092-25-24-G042-1
1.1/2"		85	-	85	60	60	7,5	61,1	50,8	15	13	25	1092-25-24-G049	1092-25-24-G049-1
2"		98	96	100	69,4	68	9	72,2	62,7	17	15	30	1092-25-24-G060	1092-25-24-G060-1
2.1/2"		118	120,2	120	83,4	85	9,1	88	76,6	21	19	35	1092-25-24-G076	1092-25-24-G076-1
3"		145	134,4	140	102,5	95	9,1	102,3	90,8	21	23	40	1092-25-24-G090	1092-25-24-G090-1
3.1/2"		145	-	140	102,5	-	17,5	120	102,5	21	-	52	1092-25-24-G101	1092-25-24-G101-1
4"		160	-	160	113,2	-	21	132	114,5	25	-	60	1092-25-24-G114	
4"		-	183,8	180		-	130	21	132	114,5	-	28		1092-25-24-G114-1

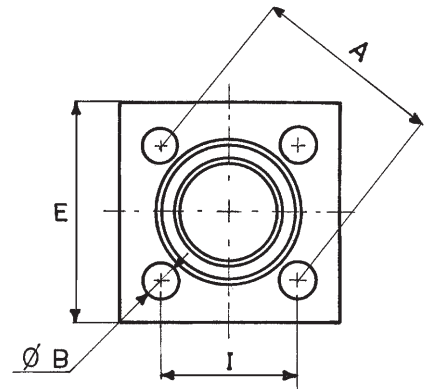
☞ *SID



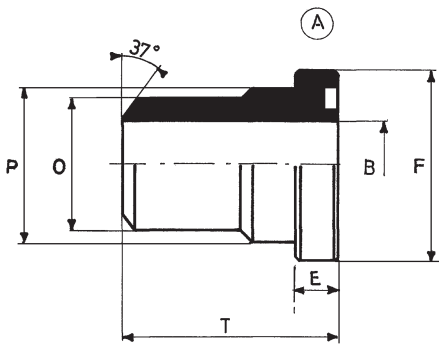
1092-40

400 BAR

CETOP flens
Bride CETOP
CETOP flange
CETOP Flansch



CETOP	BAR	A	E	I	K	N	M	B	H	Fe/P REF.
3/8"	400	35	40	24,7	7	26,8	18,5	6,5	16	1092-40-24-G017
1/2"		42	45	29,7	7	32,7	24,6	8,5	17	1092-40-24-G021
3/4"		50	50	35,3	8	40	32,5	8,5	20	1092-40-24-G027
1"		62	65	43,8	9	48,7	38,5	11	24	1092-40-24-G033
1.1/4"		73	75	51,6	9,8	54,8	44,5	13	28	1092-40-24-G042
1.1/2"		85	85	60,1	12	64,3	51,6	15	32	1092-40-24-G049
2"		98	100	69,4	12	80,2	67,6	17	40	1092-40-24-G060
2.1/2"		118	120	83,4	16,1	95	80,5	21	45	1092-40-24-G076
3"		145	140	102,5	16,1	105	90,5	21	52	1092-40-24-G090
3.1/2"		145	140	102,5	17,5	120	102,5	21	52	1092-40-24-G101
4"		160	160	113,2	21,5	132	114,5	25	60	1092-40-24-G114

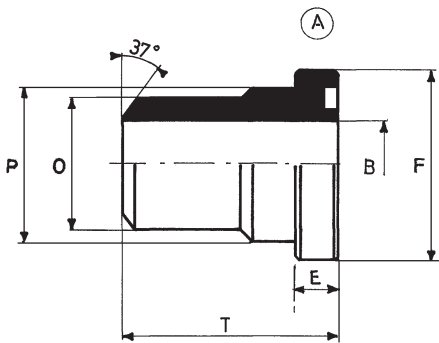


1092-25-26
1092-25-36
CETOP 250 BAR
Adapterlasflens
Collet à souder
Adapter welding flange
Flansch-schulter zum Vorschw.



Contra flens
 Contre bride
 Counter flange
 Gegenflansch

CETOP	BAR	B	E	F	P	O	T	OR	Fe REF. A	Fe REF. B
3/8"	250	12,5	6,7	24,5	18	18	40	17,13x2,62	1092-25-26-G017	1092-25-36-G017
1/2"		14	6,7	30,2	24	22	45	18,64x3,53	1092-25-26-G021	1092-25-36-G021
3/4"		19	6,7	38,1	31,5	28	50	24,99x3,53	1092-25-26-G027	1092-25-36-G027
1"		25	8	44,4	38	35	55	32,93x3,53	1092-25-26-G033	1092-25-36-G033
1.1/4"		31	8	50,8	43	43	60	37,69x3,53	1092-25-26-G042	1092-25-36-G042
1.1/2"		38	8	60,3	50	50	65	47,22x3,53	1092-25-26-G049	1092-25-36-G049
2"		47	9,5	71,4	62	62	70	58,74x3,53	1092-25-26-G060	1092-25-36-G060
2.1/2"		58	12	87,2	76	76	75	69,44x3,53	1092-25-26-G076	1092-25-36-G076
3"		70	15	101,6	90	90	85	85,32x3,53	1092-25-26-G090	1092-25-36-G090
3.1/2"		80	20	119	102	102	90	85,09x5,34	1092-25-26-G101	1092-25-36-G101
4"	90	23,5	131	114	114	105	97,79x5,34	1092-25-26-G114	1092-25-36-G114	



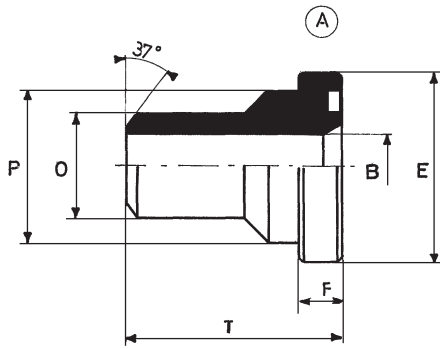
1092-40-26
1092-40-36
CETOP 400 BAR
Adapterlasflens
Collet à souder
Adapter welding flange
Flansch-schulter zum Vorschw.



Contra flens
 Contre bride
 Counter flange
 Gegenflansch

CETOP	BAR	B	E	F	P	O	T	OR	Fe REF. A	Fe REF. B
3/8"	400	11	7,7	26	18	18	40	17,13x2,62	1092-40-26-G017	1092-40-36-G017
1/2"		14	7,7	31,8	24	22	45	18,64x3,53	1092-40-26-G021	1092-40-36-G021
3/4"		18	8,7	39,5	32	28	50	24,99x3,53	1092-40-26-G027	1092-40-36-G027
1"		22	9,5	47,6	38	35	55	32,93x3,53	1092-40-26-G033	1092-40-36-G033
1.1/4"		29	10,3	54	44	44	60	37,69x3,53	1092-40-26-G042	1092-40-36-G042
1.1/2"		35	12,5	63,5	51	51	65	47,22x3,53	1092-40-26-G049	1092-40-36-G049
2"		43	12,5	79,4	67	61	70	58,74x3,53	1092-40-26-G060	1092-40-36-G060
2.1/2"		53	16,5	94,2	80	80	80	69,22x5,34	1092-40-26-G076	1092-40-36-G076
3"		58	18	104	90	90	90	75,57x5,34	1092-40-26-G090	1092-40-36-G090
3.1/2"		63	20	119	102	102	90	85,09x5,34	1092-40-26-G101	1092-40-36-G101
4"	74	23,5	131	114	114	105	88,27x5,34	1092-40-26-G114	1092-40-36-G114	

2

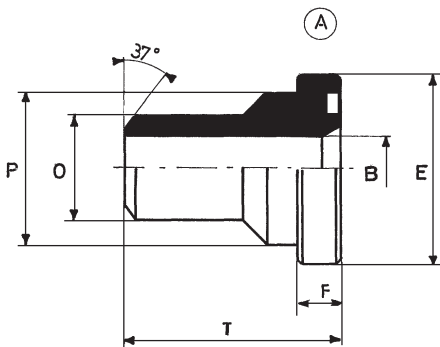


1092-25-27
1092-25-37
CETOP 250 BAR
Adapter-reduceerlasflens
Collet réduit à souder
Adapter welding reducing flange
Reduzierflansch-Schulter zum Vorsch.



Contra flens
 Contre bride
 Counter flange
 Gegenflansch

CETOP	BAR	B	E	F	P	O	T	OR	Fe REF. A	Fe REF. B
1/2"	250	11	30,2	6,7	24	18	45	18,64x3,53	1092-25-27-G021	1092-25-37-G021
3/4"		13	38,1	6,7	31,5	22	50	24,99x3,53	1092-25-27-G027	1092-25-37-G027
1"		19	44,4	8	38	28	55	32,93x3,53	1092-25-27-G033	1092-25-37-G033
1.1/4"		25	50,8	8	43	35	60	37,69x3,53	1092-25-27-G042	1092-25-37-G042
1.1/2"		31	60,3	8	50	43	65	47,22x3,53	1092-25-27-G049	1092-25-37-G049
2"		38	71,4	9,5	62	50	70	58,74x3,53	1092-25-27-G060	1092-25-37-G060
2.1/2"		47	87,2	12	76	62	75	69,44x3,53	1092-25-27-G076	1092-25-37-G076
3"		58	101,6	15	90	76	85	85,32x3,53	1092-25-27-G090	1092-25-37-G090
3.1/2"		70	119	20	102	90	90	85,09x5,34	1092-25-27-G101	1092-25-37-G101
4"		80	131	23,5	114	102	105	97,79x5,34	1092-25-27-G114	1092-25-37-G114

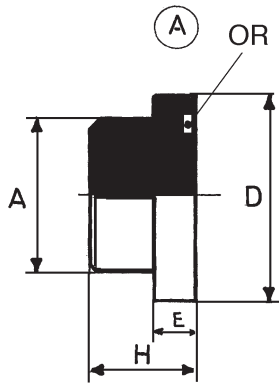


1092-40-27
1092-40-37
CETOP 400 BAR
Adapter-reduceerlasflens
Collet réduit à souder
Adapter welding reducing flange
Reduzierflansch-Schulter zum Vorsch.



Contra flens
 Contre bride
 Counter flange
 Gegenflansch

CETOP	BAR	B	E	F	P	O	T	OR	Fe REF. A	Fe REF. B
1/2"	400	11	31,8	7,7	24	18	45	18,64x3,53	1092-40-27-G021	1092-40-37-G021
3/4"		14	39,5	8,7	32	22	50	24,99x3,53	1092-40-27-G027	1092-40-37-G027
1"		18	47,6	9,5	38	28	55	32,93x3,53	1092-40-27-G033	1092-40-37-G033
1.1/4"		22	54	10,3	44	35	60	37,69x3,53	1092-40-27-G042	1092-40-37-G042
1.1/2"		29	63,5	12,5	51	44	65	47,22x3,53	1092-40-27-G049	1092-40-37-G049
2"		35	79,4	12,5	67	51	70	58,74x3,53	1092-40-27-G060	1092-40-37-G060
2.1/2"		43	94,2	16,5	80	61	80	69,22x5,34	1092-40-27-G076	1092-40-37-G076
3"		53	104	18	90	80	90	75,57x5,34	1092-40-27-G090	1092-40-37-G090
3.1/2"		58	119	20	102	90	90	85,09x5,34	1092-40-27-G101	1092-40-37-G101
4"		63	131	23,5	114	102	105	88,27x5,34	1092-40-27-G114	1092-40-37-G114



1092-25-28
1092-25-38

CETOP 250 bar

Afblindflens
Collet d'obturation
Blind flange
Verschlussflansch

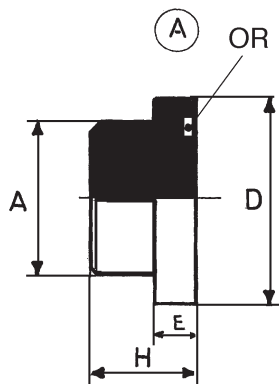
(B)



Contra flens
Contre bride
Counter flange
Gegenflansch

2

CETOP	BAR	Ø A	D	E	H	OR	Fe REF. A	Fe REF. B
3/8"	250	18	24,5	6,7	15	17,1x2,62	1092-25-28-G017	1092-25-38-G017
1/2"		24	30,2	6,7	16	18,6x3,53	1092-25-28-G021	1092-25-38-G021
3/4"		31,5	38,1	6,7	17	25,0x3,53	1092-25-28-G027	1092-25-38-G027
1"		38	44,4	8	19	32,9x3,53	1092-25-28-G033	1092-25-38-G033
1.1/4"		43	50,8	8	23	37,7x3,53	1092-25-28-G042	1092-25-38-G042
1.1/2"		50	60,3	8	26	47,2x3,53	1092-25-28-G049	1092-25-38-G049
2"		62	71,4	9,5	31	56,7x3,53	1092-25-28-G060	1092-25-38-G060
2.1/2"		76	87,2	12	37	69,4x3,53	1092-25-28-G076	1092-25-38-G076
3"		90	101,6	15	42	85,3x3,53	1092-25-28-G090	1092-25-38-G090
3.1/2"		102	119	20	54	85,3x3,53	1092-25-28-G101	1092-25-38-G101
4"	114	131	23,5	62	98,0x3,53	1092-25-28-G114	1092-25-38-G114	



1092-40-28
1092-40-38

CETOP 400 bar

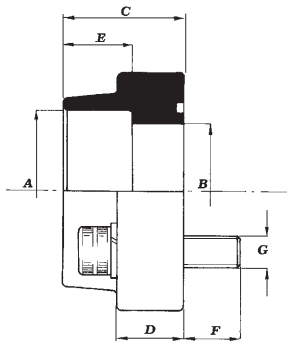
Afblindflens
Collet d'obturation
Blind flange
Verschlussflansch

(B)

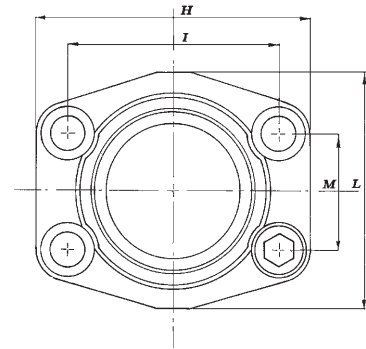


Contra flens
Contre bride
Counter flange
Gegenflansch

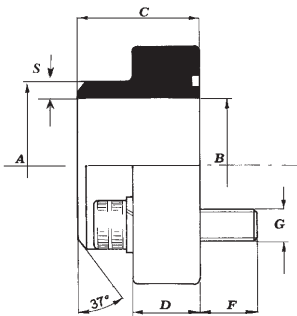
CETOP	BAR	Ø A	D	E	H	OR	Fe REF. A	Fe REF. B
3/8"	400	18	26	7,7	17	17,1x2,62	1092-40-28-G017	1092-40-38-G017
1/2"		24	31,8	7,7	19	18,6x3,53	1092-40-28-G021	1092-40-38-G021
3/4"		32	39,5	8,7	21	25,0x3,53	1092-40-28-G027	1092-40-38-G027
1"		38	47,6	9,5	25	32,9x3,53	1092-40-28-G033	1092-40-38-G033
1.1/4"		44	54	10,3	31	37,7x3,53	1092-40-28-G042	1092-40-38-G042
1.1/2"		51	63,5	12,5	33	47,2x3,53	1092-40-28-G049	1092-40-38-G049
2"		67	79,4	12,5	42	56,7x3,53	1092-40-28-G060	1092-40-38-G060
2.1/2"		80	94,2	16,5	47	69,4x3,53	1092-40-28-G076	1092-40-38-G076
3"		90	104	18	54	69,4x3,53	1092-40-28-G090	1092-40-38-G090
3.1/2"		102	119	20	54	69,4x3,53	1092-40-28-G101	1092-40-38-G101
4"	114	131	23,5	62	85,3x3,53	1092-40-28-G114	1092-40-38-G114	



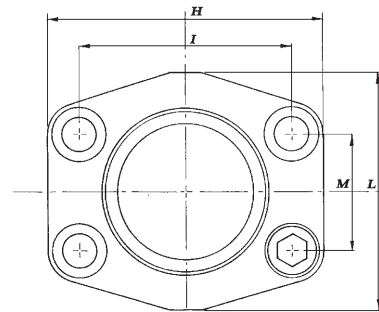
1093-01
SOCKETWELD (INCH)
SAE 3000 PSI
 Inlasflens
 Bride à souder
 Weld-in flange
 Einschweisflansch



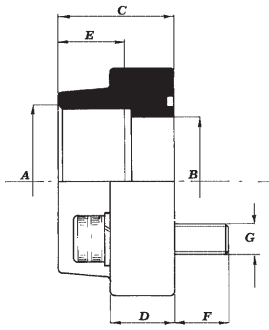
SAE	BAR	A		B	C	D	E	F	G		H	I	L	M	Fe/SM REF.
		INCH	MM						METR.	UNC					
1/2"	350	3/8	17,5	13	36	16	18	14	M8	5/16	57	38	47	17,5	1093-01-G017
1/2"	350	1/2	21,6	13	36	16	18	14	M8	5/16	57	38	47	17,5	1093-01-G021
3/4"	350	3/4	27,2	19	36	18	18	16	M10	3/8	66	47,6	49	22,2	1093-01-G027
1"	350	1	34,1	25	38	18	18	16	M10	3/8	70	52,4	53	26,2	1093-01-G033
1.1/4"	280	1.1/4	42,8	31	41	21	20	18	M10	7/16	80	58,7	69	30,2	1093-01-G042
1.1/2"	210	1.1/2	48,6	38	44	25	22	18	M12	1/2	94	70	77	35,7	1093-01-G049
2"	210	2	61	50	45	25	24	18	M12	1/2	103	77,8	89	42,9	1093-01-G060
2.1/2"	175	2.1/2	76,6	63	50	25	28	18	M12	1/2	115	89	101	50,8	1093-01-G076
3"	140	3	90,5	73	50	27	28	25	M16	5/8	135	106,4	124	62	1093-01-G090
3.1/2"	35	3.1/2	103	89	50	27	28	25	M16	5/8	153	120,7	137	70	1093-01-G101
4"	35	4	115,5	99	50	27	28	25	M16	5/8	163	130	147	77,8	1093-01-G114
5"	35	5	142	120	50	28	28	25	M16	5/8	184	152,4	180	92	1093-01-G140



1093-02
BUTTWELD (INCH)
SAE 3000 PSI
 Voorlasflens
 Bride à souder
 Buttweld flange
 Anschweißflansch



SAE	BAR	A		B	C	D	S	F	G		H	I	L	M	Fe/SM REF.
		INCH	MM						METR.	UNC					
1/2"	350	1/2	21,6	13	36	16	4,3	14	M8	5/16	57	38	47	17,5	1093-02-G021
3/4"	350	3/4	27,2	19	36	18	4,1	16	M10	3/8	66	47,6	49	22,2	1093-02-G027
1"	350	1	34,5	25	38	18	4,7	16	M10	3/8	71	52,4	53	26,2	1093-02-G033
1.1/4"	280	1.1/4	42,8	31	41	21	6	18	M10	7/16	80	58,7	69	30,2	1093-02-G042
1.1/2"	210	1.1/2	48,6	38	44	25	5,3	18	M12	1/2	94	70	77	35,7	1093-02-G049
2"	210	2	61	50	45	25	5,5	18	M12	1/2	103	77,8	89	42,9	1093-02-G060
2.1/2"	175	2.1/2	76,6	63	50	25	6,8	18	M12	1/2	115	89	101	50,8	1093-02-G076
3"	140	3	89	73	50	27	8	25	M16	5/8	135	106,4	124	62	1093-02-G090
3.1/2"	35	3.1/2	103	89	50	27	7	25	M16	5/8	153	120,7	137	70	1093-02-G101
4"	35	4	115	99	50	27	8	25	M16	5/8	163	130	147	77,8	1093-02-G114
5"	35	5	141	120	50	28	10,5	25	M16	5/8	184	152,4	180	92	1093-02-G140

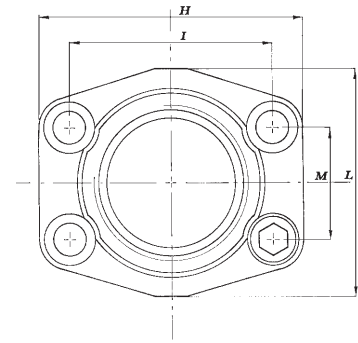


1093-03

BSPP
Flatseal

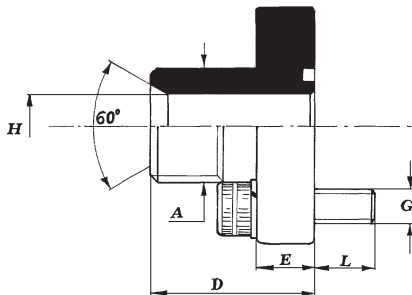
SAE 3000 PSI

**Draadflens
Bride taraudée
Threaded flange
Einschraubflansch**



2

SAE	BAR	A BSPP	B	C	D	E	F	G		H	I	L	M	Fe/SM REF.
								METR.	UNC					
1/2"	350	G3/8	13	36	16	13	14	M8	5/16	57	38	47	17,5	1093-03-G017
1/2"	350	G1/2	13	36	16	15	14	M8	5/16	57	38	47	17,5	1093-03-G021
3/4"	350	G3/4	19	36	18	18	16	M10	3/8	66	47,6	49	22,2	1093-03-G027
1"	350	G1	25	38	18	20	16	M10	3/8	71	52,4	53	26,2	1093-03-G033
1.1/4"	280	G1.1/4	31	41	21	22	18	M10	7/16	80	58,7	69	30,2	1093-03-G042
1.1/2"	210	G1.1/2	38	44	25	24	18	M12	1/2	94	70	77	35,7	1093-03-G049
2"	210	G2	50	45	25	26	18	M12	1/2	103	77,8	89	42,9	1093-03-G060
2.1/2"	175	G2.1/2	63	50	25	30	18	M12	1/2	115	89	101	50,8	1093-03-G076
3"	140	G3	73	50	27	30	25	M16	5/8	135	106,4	124	62	1093-03-G090
3.1/2"	35	G3.1/2	89	50	27	30	25	M16	5/8	152	120,7	136	70	1093-03-G101
4"	35	G4	99	50	27	30	25	M16	5/8	162	130	146	77,8	1093-03-G114
5"	35	G5	120	50	28	30	25	M16	5/8	184	152,4	180	92	1093-03-G140

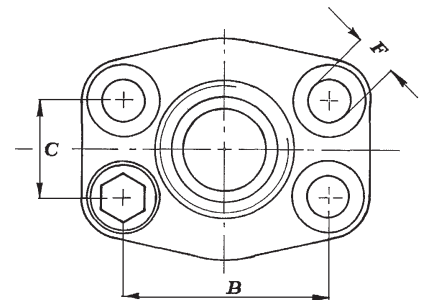


1093-04

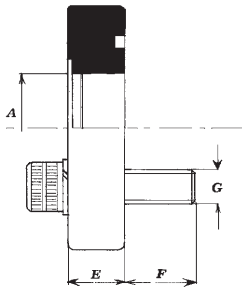
BSPP
60° → ← Globeseal

SAE 3000 PSI

**Draadflens
Bride filetée
Threaded flange
Außengewindeflansch**



SAE	BAR	A BSPP	B	C	D	E	F	G		H	L	Fe/Zn/YP REF.
								METR.	UNC			
1/2"	350	G3/8	38	17,5	37	16	9	M8	5/16	10	14	1093-04-06-G021
1/2"	350	G1/2	38	17,5	39	16	9	M8	5/16	12	14	1093-04-08-G021
1/2"	350	G3/4	38	17,5	42	16	9	M8	5/16	13	14	1093-04-12-G021
3/4"	350	G1/2	47,6	22,2	42	18	11	M10	3/8	12	14	1093-04-08-G027
3/4"	350	G3/4	47,6	22,2	45	18	11	M10	3/8	17	14	1093-04-12-G027
3/4"	350	G1	47,6	22,2	47	18	11	M10	3/8	19	14	1093-04-16-G027
1"	350	G3/4	52,4	26,2	47	18	11	M10	3/8	17	14	1093-04-12-G033
1"	350	G1	52,4	26,2	49	18	11	M10	3/8	22	14	1093-04-16-G033
1"	350	G1.1/4	52,4	26,2	49	18	11	M10	3/8	25	14	1093-04-20-G033
1.1/4"	280	G1	58,7	30,2	53	21	11,5	M10	7/16	22	18	1093-04-16-G042
1.1/4"	280	G1.1/4	58,7	30,2	53	21	11,5	M10	7/16	27	18	1093-04-20-G042
1.1/4"	280	G1.1/2	58,7	30,2	55	21	11,5	M10	7/16	31	18	1093-04-24-G042
1.1/2"	210	G1.1/4	69,9	35,7	59	24	13,5	M12	1/2	27	18	1093-04-20-G049
1.1/2"	210	G1.1/2	69,9	35,7	61	24	13,5	M12	1/2	34	18	1093-04-24-G049
1.1/2"	210	G2	69,9	35,7	63	24	13,5	M12	1/2	38	18	1093-04-32-G049
2"	210	G1.1/2	77,8	42,9	69	25	13,5	M12	1/2	34	19	1093-04-24-G060
2"	210	G2	77,8	42,9	69	25	13,5	M12	1/2	42	19	1093-04-32-G060

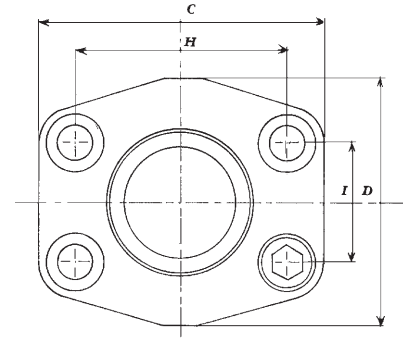


1093-05

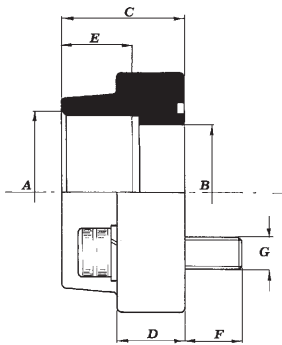
BSPP
Flatseal

SAE 3000 PSI

Platte draadflens
Bride plate taraudée
Threaded flat flange
Flache Gewindeflansch



SAE	A BSPP	C	D	E	F	G		H	I	OR REF.	Fe/SM REF.
						METR.	UNC				
1/2"	G3/8	57	47	16	14	M8	5/16	38	17,5	1099-4-G021	1093-05-G021-06
1/2"	G1/2	57	47	16	14	M8	5/16	38	17,5	1099-4-G021-1	1093-05-G021-08
3/4"	G1/2	66	49	18	16	M10	3/8	47,6	22,2	1099-4-G027	1093-05-G027-08
3/4"	G3/4	66	49	18	16	M10	3/8	47,6	22,2	1099-4-G027-1	1093-05-G027-12
1"	G3/4	71	53	19	16	M10	3/8	52,4	26,2	1099-4-G033	1093-05-G033-12
1"	G1	71	53	19	16	M10	3/8	52,4	26,2	1099-4-G042	1093-05-G033-16
1.1/4"	G1	80	69	21	18	M10	7/16	58,7	30,2	1099-4-G042	1093-05-G042-16
1.1/4"	G1.1/4	80	69	21	18	M10	7/16	58,7	30,2	1099-4-G042-1	1093-05-G042-20
1.1/2"	G1.1/4	95	77	24	19	M12	1/2	70	35,7	1099-4-G049	1093-05-G049-20
1.1/2"	G1.1/2	95	77	24	19	M12	1/2	70	35,7	1099-4-G049-1	1093-05-G049-24
2"	G1.1/2	103	89	24	19	M12	1/2	77,8	42,9	1099-4-G060	1093-05-G060-24
2"	G2	103	89	24	19	M12	1/2	77,8	42,9	1099-4-G060-1	1093-05-G060-32
2.1/2"	G2	116	101	25	19	M12	1/2	89	50,8	1099-4-G076	1093-05-G076-32
2.1/2"	G2.1/2	116	101	25	19	M12	1/2	89	50,8	1099-4-G076-1	1093-05-G076-40
3"	G2.1/2	136	124	25	27	M16	5/8	106,4	62	1099-4-G090	1093-05-G090-40
3"	G3	136	124	25	27	M16	5/8	106,4	62	1099-4-G090-1	1093-05-G090-48
3.1/2"	G3	152	136	25	27	M16	5/8	120,7	70	1099-4-G101	1093-05-G101-48
3.1/2"	G3.1/2	152	136	25	27	M16	5/8	120,7	70	1099-4-G101-1	1093-05-G101-54
4"	G3.1/2	162	146	25	27	M16	5/8	130	77,8	1099-4-G114	1093-05-G114-54
4"	G4	162	146	25	27	M16	5/8	130	77,8	1099-4-G114-1	1093-05-G114-64
5"	G4	184	180	25	27	M16	5/8	152,4	92	1099-4-G140	1093-05-G140-64
5"	G5	184	180	25	27	M16	5/8	152,4	92	1099-4-G140-1	1093-05-G140-80

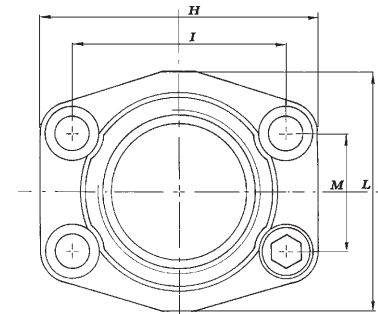


1093-07

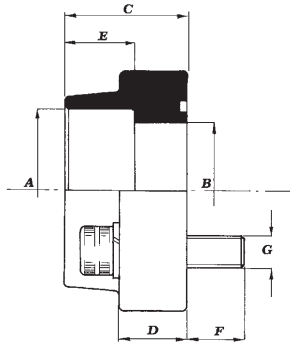
NPTF
Threadseal

SAE 3000 PSI

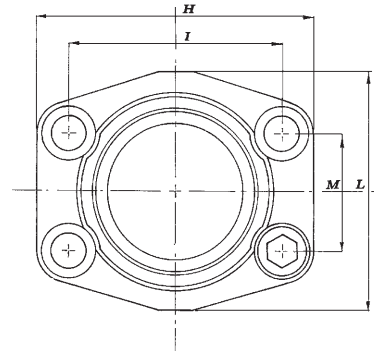
Draadflens
Bride taraudée
Threaded flange
Einschraubflansch



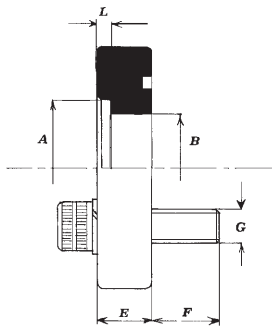
SAE	BAR	A NPTF	B	C	D	E	F	G		H	I	L	M	Fe/SM REF.
								METR.	UNC					
1/2"	350	3/8NPTF	13	36	16	19	14	M8	5/16	57	38	47	17,5	1093-07-G017
1/2"	350	1/2NPTF	13	36	16	19	14	M8	5/16	57	38	47	17,5	1093-07-G021
3/4"	350	3/4NPTF	19	36	18	19	16	M10	3/8	66	47,6	49	22,2	1093-07-G027
1"	350	1NPTF	25	38	18	19	16	M10	3/8	71	52,4	53	26,2	1093-07-G033
1.1/4"	280	1.1/4NPTF	31	41	21	22	18	M10	7/16	80	58,7	69	30,2	1093-07-G042
1.1/2"	210	1.1/2NPTF	38	44	25	24	18	M12	1/2	94	70	77	35,7	1093-07-G049
2"	210	2NPTF	50	45	25	26	18	M12	1/2	103	77,8	89	42,9	1093-07-G060
2.1/2"	175	2.1/2NPTF	63	50	25	30	18	M12	1/2	115	89	101	50,8	1093-07-G076
3"	140	3NPTF	73	50	27	34	25	M16	5/8	135	106,4	124	62	1093-07-G090
3.1/2"	35	3.1/2NPTF	89	50	27	36	25	M16	5/8	152	120,7	136	70	1093-07-G101
4"	35	4NPTF	99	50	27	36	25	M16	5/8	162	130	146	77,8	1093-07-G114
5"	35	5NPTF	120	50	28	36	25	M16	5/8	184	152,4	180	92	1093-07-G140



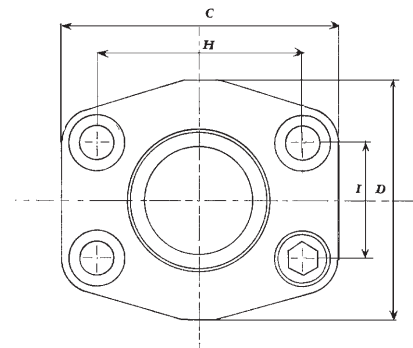
1093-10
SOCKET WELD (METR.)
SAE 3000 PSI
 Inlasflens
 Bride à souder
 Weld-in flange
 Einschweißflansch



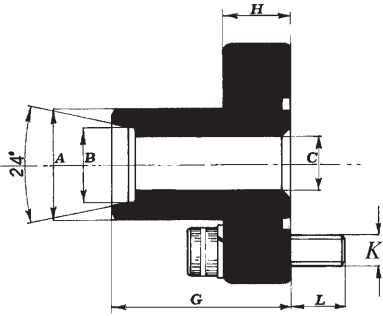
SAE	BAR	A	B	C	D	E	F	G		H	I	L	M	FE/SM REF.
								METR.	UNC					
1/2"	350		13	36	16	18	14	M8	5/16	57	38	47	17,5	☞
1/2"	350	20,3	14	36	16	18	14	M8	5/16	57	38	47	17,5	1093-10-20-G021
3/4"	350	25,3	19	36	18	18	16	M10	3/8	66	47,6	49	22,2	1093-10-25-G027
1"	350	30,3	22	38	18	18	16	M10	3/8	70	52,4	53	26,2	1093-10-30-G033
1.1/4"	280	38,3	30	41	21	20	18	M10	7/16	80	58,7	69	30,2	1093-10-38-G042
1.1/2"	210	50,3	38	44	25	22	18	M12	1/2	94	70	77	35,7	1093-10-50-G049
2"	210	65,3	50	45	25	24	18	M12	1/2	103	77,8	89	42,9	1093-10-65-G060
2.1/2"	175		63	50	25	28	18	M12	1/2	115	89	101	50,8	☞
3"	140		73	50	27	28	25	M16	5/8	135	106,4	124	62	☞
3.1/2"	35		89	50	27	28	25	M16	5/8	153	120,7	137	70	☞
4"	35		99	50	27	28	25	M16	5/8	163	130	147	77,8	☞
5"	35		120	50	28	28	25	M16	5/8	184	152,4	180	92	☞



1093-11
SOCKET WELD (INCH)
SAE 3000 PSI
 Platte inlasflens
 Bride plate à souder
 Flat weld-in flange
 Flache Einschweißflansch



SAE	A	B	C	D	E	F	G		H	I	L	Fe/SM REF.
							METR.	UNC				
1/2"	17,5	13	57	47	16	14	M8	5/16	38	17,5	3	1093-11-017-G021
1/2"	21,6	13	57	47	16	14	M8	5/16	38	17,5	3	1093-11-021-G021
3/4"	21,6	13	66	49	18	16	M10	3/8	47,6	22,2	4	1093-11-021-G027
3/4"	27,2	19	66	49	18	16	M10	3/8	47,6	22,2	4	1093-11-027-G027
1"	27,2	19	71	53	19	16	M10	3/8	52,4	26,2	4	1093-11-027-G033
1"	34,5	25	71	53	19	16	M10	3/8	52,4	26,2	4	1093-11-033-G033
1.1/4"	34,5	25	80	69	21	18	M10	7/16	58,7	30,2	4	1093-11-033-G042
1.1/4"	42,8	31	80	69	21	18	M10	7/16	58,7	30,2	4	1093-11-042-G042
1.1/2"	42,8	31	95	77	24	19	M12	1/2	70	35,7	4	1093-11-042-G049
1.1/2"	48,6	38	95	77	24	19	M12	1/2	70	35,7	4	1093-11-049-G049
2"	48,6	38	103	89	24	19	M12	1/2	77,8	42,9	4	1093-11-049-G060
2"	61	50	103	89	24	19	M12	1/2	77,8	42,9	4	1093-11-060-G060
2.1/2"	61	50	116	101	25	19	M12	1/2	89	50,8	5	1093-11-060-G076
2.1/2"	76,6	63	116	101	25	19	M12	1/2	89	50,8	5	1093-11-076-G076
3"	76,6	63	136	124	25	27	M16	5/8	106,4	62	5	1093-11-076-G090
3"	90,5	73	136	124	25	27	M16	5/8	106,4	62	5	1093-11-090-G090
3.1/2"	90,5	73	152	136	25	27	M16	5/8	120,7	70	5	1093-11-090-G101
3.1/2"	103	89	152	136	25	27	M16	5/8	120,7	70	5	1093-11-101-G101
4"	103	89	162	146	25	27	M16	5/8	130	77,8	6	1093-11-101-G114
4"	115,5	99	162	146	25	27	M16	5/8	130	77,8	6	1093-11-114-G114
5"	115,5	99	184	180	25	27	M16	5/8	152,4	92	6	1093-11-114-G140
5"	142,5	120	184	180	25	27	M16	5/8	152,4	92	6	1093-11-140-G140

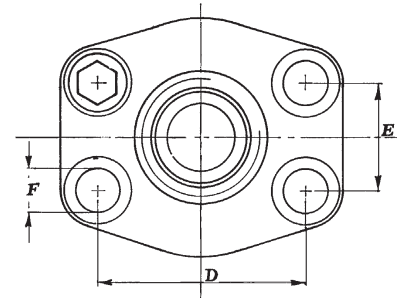


1093-12

CEL/CES
DIN 2353 24°

SAE 3000 PSI

Draadflens
Bride filetée
Threaded flange
Außengewindeflansch



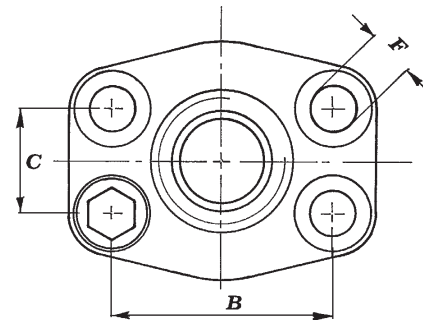
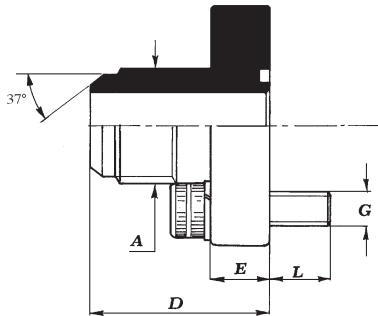
SAE	BAR	BAR DIN 2353	DIN 2353	A METR.	B	C	D	E	F	G	H	K		L	Fe/Zn/YP REF.
												METR.	UNC		
1/2"	350	630	12S	M20x1,5	12	8	38	17,5	9	47	16	M8	5/16	14	1093-12-12-G021
1/2"	350	315	15L	M22x1,5	15	11	38	17,5	9	47	16	M8	5/16	14	1093-12-15-G021
1/2"	350	400	16S	M24x1,5	16	12	38	17,5	9	47	16	M8	5/16	14	1093-12-16-G021
3/4"	350	400	16S	M24x1,5	16	12	47,6	22,2	11	52	18	M10	3/8	14	1093-12-16-G027
3/4"	350	400	20S	M30x2	20	16	47,6	22,2	11	52	18	M10	3/8	14	1093-12-20-G027
3/4"	350	160	22L	M30x2	22	18	47,6	22,2	11	52	18	M10	3/8	14	1093-12-22-G027
1"	350	400	20S	M30x2	20	16	52,4	26,2	11	60	18	M10	3/8	14	1093-12-20-G033
1"	350	400	25S	M36x2	25	20	52,4	26,2	11	60	18	M10	3/8	14	1093-12-25-G033
1"	350	160	28L	M36x2	28	23	52,4	26,2	11	60	18	M10	3/8	14	1093-12-28-G033
1.1/4"	280	400	25S	M36x2	25	20	58,7	30,2	11,5	60	21	M10	7/16	18	1093-12-25-G042
1.1/4"	280	400	30S	M42x2	30	25	58,7	30,2	11,5	60	21	M10	7/16	18	1093-12-30-G042
1.1/4"	280	160	35L	M45x2	35	30	58,7	30,2	11,5	60	21	M10	7/16	18	1093-12-35-G042
1.1/2"	210	160	35L	M45x2	35	30	70	35,7	13,5	70	25	M12	1/2	18	1093-12-35-G049
1.1/2"	210	315	38S	M52x2	38	32	70	35,7	13,5	70	25	M12	1/2	18	1093-12-38-G049
1.1/2"	210	160	42L	M52x2	42	36	70	35,7	13,5	70	25	M12	1/2	18	1093-12-42-G049
2"	210	315	38S	M52x2	38	36	77,8	42,9	13,5	74	25	M12	1/2	18	1093-12-38-G060
2"	210	160	42L	M52x2	42	32	77,8	42,9	13,5	74	25	M12	1/2	18	1093-12-42-G060

1093-17

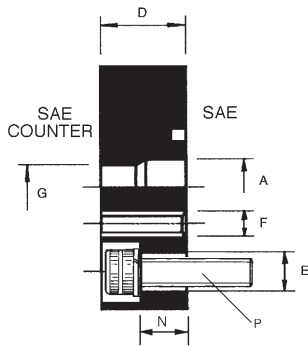
UN(F) - JIC 37°

SAE 3000 PSI

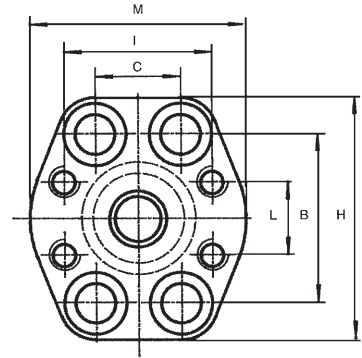
Draadflens
Bride filetée
Threaded flange
Außengewindeflansch



SAE	BAR	A UN(F)	B	C	D	E	F	G		L	Fe/Zn/YP REF.
								METR.	UNC		
1/2"	350	3/4-16UNF	38	17,5	41	16	9	M8	5/16	14	1093-17-08-G021
1/2"	350	7/8-14UNF	38	17,5	41	16	9	M8	5/16	14	1093-17-10-G021
1/2"	350	1.1/16-12UN	38	17,5	46	16	9	M8	5/16	14	1093-17-12-G021
3/4"	350	7/8-14UNF	47,6	22,2	47	18	11	M10	3/8	15	1093-17-10-G027
3/4"	350	1.1/16-12UN	47,6	22,2	49	18	11	M10	3/8	15	1093-17-12-G027
3/4"	350	1.5/16-12UN	47,6	22,2	50	18	11	M10	3/8	15	1093-17-16-G027
1"	350	1.1/16-12UN	52,4	26,2	51	18	11	M10	3/8	15	1093-17-12-G033
1"	350	1.5/16-12UN	52,4	26,2	52	18	11	M10	3/8	15	1093-17-16-G033
1"	350	1.5/8-12UN	52,4	26,2	54	18	11	M10	3/8	15	1093-17-20-G033
1.1/4"	280	1.5/16-12UN	58,7	30,2	56	21	11,5	M10	7/16	18	1093-17-16-G042
1.1/4"	280	1.5/8-12UN	58,7	30,2	58	21	11,5	M10	7/16	18	1093-17-20-G042
1.1/4"	280	1.7/8-12UN	58,7	30,2	61	21	11,5	M10	7/16	18	1093-17-24-G042
1.1/2"	210	1.5/8-12UN	70	35,7	64	24	13,5	M12	1/2	20	1093-17-20-G049
1.1/2"	210	1.7/8-12UN	70	35,7	67	24	13,5	M12	1/2	20	1093-17-24-G049

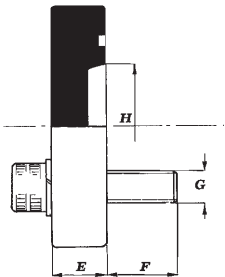


1093-21
SAE 3000 PSI - COUNTER
SAE 3000 PSI
Tussen-/reduceerflens
Bride intermédiaire/reduit
Intermediare/reduction flange
Zwischen-/Reduzierflansch

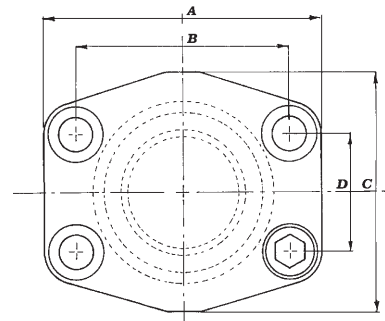


2

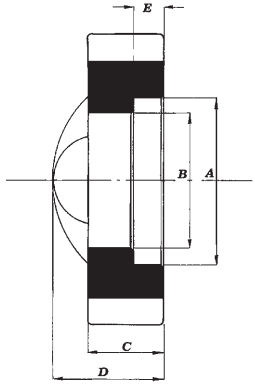
SAE	SAE COUNTER	BAR	A	B	C	D	E	F	G	H	I	L	M	N	P	Fe/SM REF.
1"	1"	350	25	52,4	26,2	28	11	M10	25	71	52,4	26,2	71	17	M10x35	1093-21-G033
1"	3/4"	350	25	52,4	26,2	28	11	M10	19	71	47,6	22,2	71	17	M10x35	1093-21-G033-027
1.1/4"	1.1/4"	280	30	58,7	30,2	28	11	M10	30	80	58,7	30,2	80	17	M10x35	1093-21-G042
1.1/4"	1"	280	30	58,7	30,2	28	11	M10	25	80	52,4	26,2	71	17	M10x35	1093-21-G042-033
1.1/2"	1.1/2"	210	38	70	35,7	32	13	M12	38	94	70	35,7	94	19	M12x40	1093-21-G049
1.1/2"	1.1/4"	210	38	70	35,7	32	13	M12	30	94	58,7	30,2	80	19	M12x40	1093-21-G049-042
2"	2"	210	50	77,8	42,9	32	13	M12	50	103	77,8	42,9	103	19	M12x40	1093-21-G060
2"	1.1/2"	210	50	77,8	42,9	32	13	M12	38	103	70	35,7	94	19	M12x40	1093-21-G060-049
2.1/2"	2.1/2"	175	63	89	50,8	32	13	M12	63	115	89	50,8	115	19	M12x40	1093-21-G076
2.1/2"	2"	175	63	89	50,8	32	13	M12	50	115	77,8	42,9	103	19	M12x40	1093-21-G076-060
3"	3"	140	73	106,4	62	36	17	M16	73	135	106,4	62	135	19	M16x45	1093-21-G090
3"	2.1/2"	140	73	106,4	62	36	17	M16	63	135	89	50,8	115	19	M16x45	1093-21-G090-076



1093-22
BLIND
SAE 3000 PSI
Afblindflens
Bride d'obturation
Blind flange
Verschlussflansch



SAE	BAR	A	B	C	D	E	F	G		H	Fe/SM REF.
								METR.	UNC		
1/2"	350	57	38	47	17,5	16	14	M8	5/16	10	1093-22-G021
3/4"	350	66	47,6	49	22,2	18	16	M10	3/8	15	1093-22-G027
1"	350	71	52,4	53	26,2	19	16	M10	3/8	18	1093-22-G033
1.1/4"	280	80	58,7	69	30,2	21	18	M10	7/16	23	1093-22-G042
1.1/2"	210	95	70	77	35,7	24	19	M12	1/2	28	1093-22-G049
2"	210	103	77,8	89	42,9	24	19	M12	1/2	45	1093-22-G060
2.1/2"	175	116	89	101	50,8	25	19	M12	1/2	58	1093-22-G076
3"	140	136	106,4	124	62	25	27	M16	5/8	70	1093-22-G090
3.1/2"	35	152	120,7	136	70	25	27	M16	5/8	85	1093-22-G101
4"	35	162	130	146	77,8	25	27	M16	5/8	95	1093-22-G114
5"	35	184	152,4	180	92	25	27	M16	5/8	110	1093-22-G140

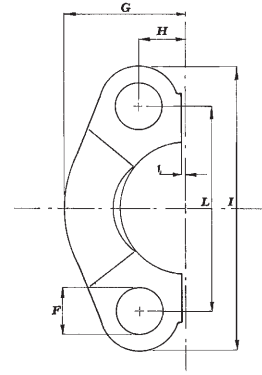


1093-23

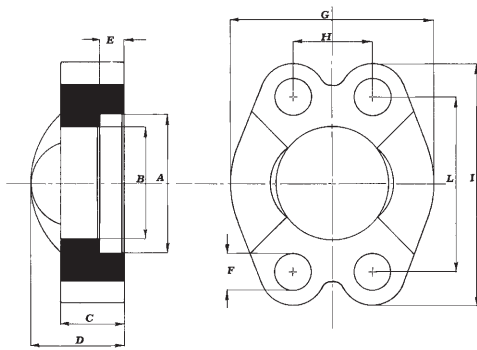
SPLIT

SAE J518-3000 PSI

Halve flens
Demi bride
Split flange
Flanschhälfte



SAE	BAR SAE	A	B	C	D	E	F	G	H	I	L	← →		Fe 52.3/Zn/YP REF.	AISI 316 REF.
												METR.	UNC		
1/2"	350	31	24,3	13	20	6,2	8,7	23	8,7	54	38,1	M8	5/16	1093-23-G021	3093-23-G021
3/4"	350	38,9	32,1	14	22	6,2	10,5	26	11,1	65	47,6	M10	3/8	1093-23-G027	3093-23-G027
1"	350	45,2	38,5	16	22	7,5	10,5	29,2	13,1	70	52,4	M10	3/8	1093-23-G033	3093-23-G033
1.1/4"	280	51,6	43,7	14	22	7,5	10,5	36,3	15,1	80	58,7	M10	-	1093-23-G042A	3093-23-G042A
1.1/4"	280	51,6	43,7	14	22	7,5	12	36,3	15,1	80	58,7	-	7/16	1093-23-G042	3093-23-G042
1.1/4"	280	51,6	43,7	14	22	7,5	12,5	36,3	15,1	80	58,7	M12	-	1093-23-G042B	3093-23-G042B
1.1/2"	210	61,1	50,8	16	24	7,5	13,5	41,1	17,9	94	69,9	M12	1/2	1093-23-G049	3093-23-G049
1.1/2"	210	61,1	50,8	16	24	7,5	14,5	41,1	17,9	94	69,9	M14	-	1093-23-G049B	3093-23-G049B
2"	210	72,2	62,7	16	26	9	13,5	48,2	21,4	102	77,8	M12	1/2	1093-23-G060	3093-23-G060
2"	210	72,2	62,7	16	26	9	14,5	48,2	21,4	102	77,8	M14	-	1093-23-G060B	3093-23-G060B
2.1/2"	175	84,9	74,9	19	38	9	13,5	54	25,4	115	88,9	M12	1/2	1093-23-G076	3093-23-G076
2.1/2"	175	84,9	74,9	19	38	9	14,5	54	25,4	115	88,9	M14	-	1093-23-G076B	3093-23-G076B
3"	140	102,4	90,9	22	40	9	17	65,3	31	135	106,4	M16	5/8	1093-23-G090	3093-23-G090
3.1/2"	35	115	102,4	23	45	10,7	17	70	34,8	152	120,6	M16	5/8	1093-23-G101	3093-23-G101
4"	35	127,8	115,1	25	48	10,7	17	75	38,9	160	130,2	M16	5/8	1093-23-G114	3093-23-G114
5"	35	153,2	140,5	28	50	10,7	17	82	46	183	152,4	M16	5/8	1093-23-G140	3093-23-G140

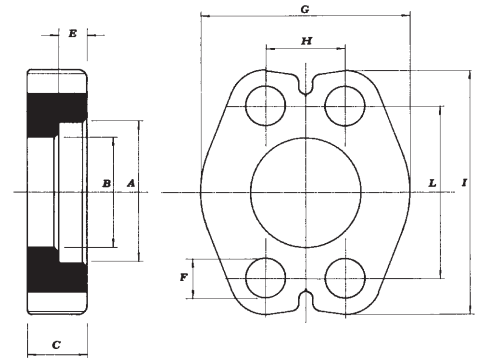


1093-24

1093-24 1093-24-6 COMBI

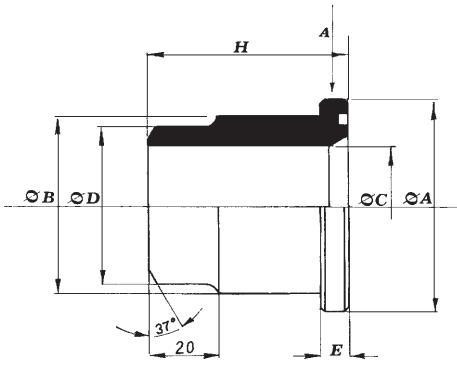
SAE 3000 PSI

Volle flens
Bride entière "Monobloc"
Undivided flange
Vollflansch



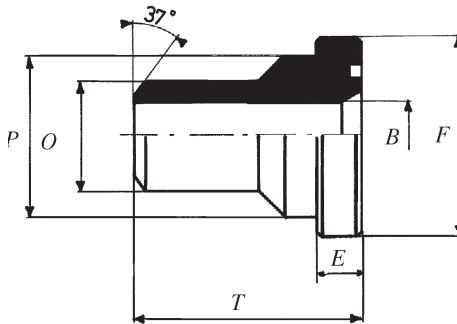
1093-24-6

SAE	BAR SAE	A	B	C	D	E	F	G	H	I	L	← →		Fe 52.3/Zn/YP REF.	C 60 REF.
												METR.	UNC		
1/2"	350	31	24,3	13	20	6,2	8,8	46	17,4	54	38,1	M8	5/16	1093-24-G021	1093-24-6-G021
3/4"	350	38,9	32,1	14	22	6,2	10,5	52	22,2	65	47,6	M10	3/8	1093-24-G027	1093-24-6-G027
1"	350	45,2	38,5	16	22	7,5	10,5	59	26,2	70	52,4	M10	3/8	1093-24-G033	1093-24-6-G033
1.1/4"	280	51,6	43,7	14	22	7,5	10,5	73	30,2	80	58,7	M10	-	1093-24-G042A	1093-24-6-G042A
1.1/4"	280	51,6	43,7	14	22	7,5	12	73	30,2	80	58,7	-	7/16	1093-24-G042	
1.1/4"	280	51,6	43,7	14	22	7,5	12,5	73	30,2	80	58,7	M12	-	1093-24-G042B	1093-24-6-G042B
1.1/2"	210	61,1	50,8	16	24	7,5	13,5	83	35,8	94	69,9	M12	1/2	1093-24-G049	1093-24-6-G049
1.1/2"	210	61,1	50,8	16	24	7,5	14,5	83	35,8	94	69,9	M14	-	1093-24-G049B	1093-24-6-G049B
2"	210	72,2	62,7	16	26	9	13,5	97	42,8	102	77,8	M12	1/2	1093-24-G060	1093-24-6-G060
2"	210	72,2	62,7	16	26	9	14,5	97	42,8	102	77,8	M14	-	1093-24-G060B	1093-24-6-G060B
2.1/2"	175	84,9	74,9	19	38	9	13,5	109	50,8	115	88,9	M12	1/2	1093-24-G076	1093-24-6-G076
2.1/2"	175	84,9	74,9	19	38	9	14,5	109	50,8	115	88,9	M14	-	1093-24-G076B	1093-24-6-G076B
3"	140	102,4	90,9	22	40	9	17	131	62	135	106,4	M16	5/8	1093-24-G090	
3.1/2"	35	115	102,4	23	45	10,7	17	140	69,9	152	120,7	M16	5/8	1093-24-G101	
4"	35	127,8	115,1	25	48	10,7	17	150	77,8	160	130,2	M16	5/8	1093-24-G114	
5"	35	153,2	140,5	28	50	10,7	17	180	92	183	152,4	M16	5/8	1093-24-G140	



1093-26
BUTTWELD
SAE J518-3000 PSI
Adapterlasflens
Collet à souder
Adapter welding flange
Flansch-Schulter zum Vorschw.

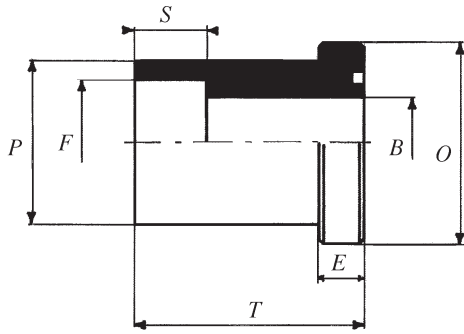
SAE	BAR	A	B	C	D	E	H	Fe REF.
1/2"	350	30,2	23,9	12	16	6,7	41	1093-26-G021
3/4"	350	38,1	31,7	19	25	6,7	50	1093-26-G027
1"	350	44,4	38	22	30	8	50	1093-26-G033
1.1/4"	280	50,8	43	28	38	8	55	1093-26-G042
1.1/2"	210	60,3	50	35	45	8	57	1093-26-G049
2"	210	71,4	62	45	60	9,5	57	1093-26-G060
2.1/2"	175	84,1	74	55	70	9,5	58	1093-26-G076
3"	140	101,6	90	68	80	9,5	60	1093-26-G090
3.1/2"	35	114,3	102	88	100	11,2	60	1093-26-G101
4"	35	127	114	98	110	11,2	60	1093-26-G114
5"	35	152,4	140	120	133	11,2	60	1093-26-G140



1093-28
BUTTWELD
SAE J518-3000 PSI
Reduceer adapterlasflens
Collet réduit à souder
Reducing adapter welding flange
Reduzier Adapter zum Vorschw.

SAE	BAR	B	E	F	P	O	T	Fe REF.
1/2"	350	10	6,7	30,2	24	18	45	1093-28-018-G021
3/4"	350	13	6,7	38,1	31,5	22	50	1093-28-022-G027
1"	350	19	8	44,4	38	28	55	1093-28-028-G033
1.1/4"	280	25	8	50,8	43	35	60	1093-28-035-G042
1.1/2"	210	31	8	60,3	50	43	65	1093-28-043-G049
2"	210	38	9,5	71,4	62	50	70	1093-28-050-G060
2.1/2"	175	47	9,5	84,1	74	62	75	1093-28-062-G076
3"	140	58	9,5	101,6	90	76	85	1093-28-076-G090
3.1/2"	35	70	11,2	114,3	102	90	90	1093-28-090-G101
4"	35	88	11,2	127	114	102	100	1093-28-102-G114

2



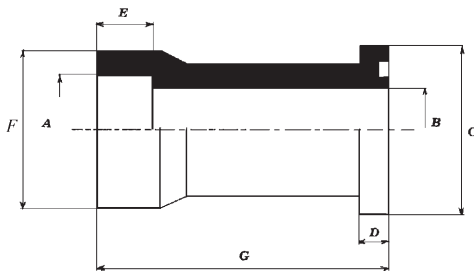
1093-29

SOCKETWELD

SAE J518-3000 PSI

Adapter inlasflens
Collet adapteur à souder
Adapter weld-in flange
Einschweiß-Adapterflansch

SAE	BAR	B	O	E	F	P	S	T	Fe REF.
1/2"	350	12,5	30,2	6,7	16,5	24	12	35	1093-29-16-G021
1/2"	350	12,5	30,2	6,7	17,6	24	12	35	1093-29-18-G021
3/4"	350	15	38,1	6,7	20,5	31,5	13	40	1093-29-20-G027
3/4"	350	15	38,1	6,7	21,7	31,5	13	40	1093-29-22-G027
1"	350	20	44,4	8	25,5	38	14	45	1093-29-25-G033
1"	350	20	44,4	8	27,3	38	14	45	1093-29-27-G033
1.1/4"	280	25	50,8	8	30,5	43	16	50	1093-29-30-G042
1.1/4"	280	25	50,8	8	32,5	43	16	50	1093-29-32-G042
1.1/4"	280	25	50,8	8	34,2	43	16	50	1093-29-34-G042
1.1/2"	210	32	60,3	8	38,5	50	18	55	1093-29-38-G049
1.1/2"	210	32	60,3	8	40,7	50	18	55	1093-29-41-G049
1.1/2"	210	32	60,3	8	43	50	18	55	1093-29-43-G049
2"	210	38	71,4	9,5	49	62	20	65	1093-29-49-G060
2"	210	38	71,4	9,5	50,7	62	20	65	1093-29-51-G060
2.1/2"	175	47	84,1	9,5	61	74	22	75	1093-29-61-G076
2.1/2"	175	47	84,1	9,5	64	74	22	75	1093-29-64-G076
3"	140	58	101,6	9,5	74	90	24	85	1093-29-74-G090
3"	140	58	101,6	9,5	77	90	24	85	1093-29-77-G090
3"	140	58	101,6	9,5	81	90	24	85	1093-29-81-G090



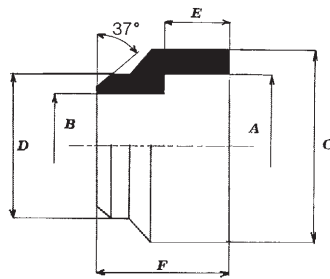
1093-30

SOCKETWELD LONG

SAE J518-3000 PSI

Lange inlasadapterflens
Collet long à souder
Long adapter welding flange
Lange Einschweißflansch

SAE	BAR	A	B	C	D	E	F	G	Fe REF.
1/2"	350	20,5	15	30,2	6,7	13	30	60	1093-30-20-G021
1/2"	350	21,7	15	30,2	6,7	13	30	60	1093-30-22-G021
3/4"	350	25,5	19	38,1	6,7	13	35	68	1093-30-26-G027
3/4"	350	27,3	19	38,1	6,7	13	35	68	1093-30-27-G027
1"	350	30,5	23	44,4	8	16	44	75	1093-30-30-G033
1"	350	32,5	24	44,4	8	16	44	75	1093-30-32-G033
1"	350	34	25	44,4	8	16	44	75	1093-30-34-G033
1"	350	35,5	25	44,4	8	16	44	75	1093-30-35-G033
1.1/4"	280	38,5	32	50,8	8	18	55	95	1093-30-38-G042
1.1/4"	280	40,5	32	50,8	8	18	55	95	1093-30-40-G042
1.1/4"	280	43	32	50,8	8	18	55	95	1093-30-43-G042
1.1/2"	210	49	38	60,3	8	20	63	100	1093-30-49-G049
1.1/2"	210	50,4	38	60,3	8	20	63	100	1093-30-50-G049
2"	210	61	50	71,4	9,5	22	79	107	1093-30-61-G060
2"	210	65,8	50	71,4	9,5	22	79	107	1093-30-66-G060
2.1/2"	175	74	58	84,1	9,5	24	98	130	1093-30-74-G076
2.1/2"	175	77	58	84,1	9,5	24	98	130	1093-30-77-G076
2.1/2"	175	81	58	84,1	9,5	24	98	130	1093-30-81-G076
3"	140	90,5	70	101,6	9,5	28	116	150	1093-30-90-G090




1093-31

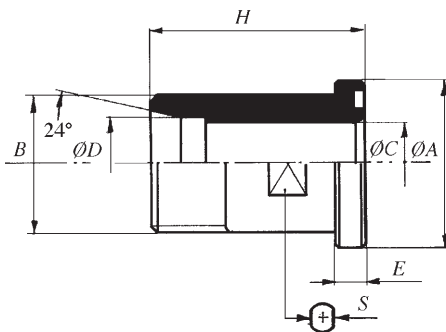
BUTT/SOCKETWELD

SAE 3000 PSI

**Lasverloopadapter
Adaptateur réduit à souder
Welding reducing adapter
Schweißreduzierstück**

2

SAE	 BAR	A	B	C	D	E	F	Fe REF.
1/2"	350	20,5	15	30	22	13	30	1093-31-20-G021
1/2"	350	21,7	15	30	22	13	30	1093-31-22-G021
3/4"	350	25,7	19	35	28	13	30	1093-31-26-G027
3/4"	350	27,3	19	35	28	13	30	1093-31-27-G027
1"	350	30,5	23	44	35	16	35	1093-31-30-G033
1"	350	32,5	24	44	35	16	35	1093-31-32-G033
1"	350	34	25	44	35	16	35	1093-31-34-G033
1"	350	35,5	25	44	35	16	35	1093-31-35-G033
1.1/4"	280	38,5	32	55	43	18	45	1093-31-38-G042
1.1/4"	280	40,5	32	55	43	18	45	1093-31-40-G042
1.1/4"	280	43	32	55	43	18	45	1093-31-43-G042
1.1/2"	210	49	38	63	50	20	50	1093-31-49-G049
1.1/2"	210	50,4	38	63	50	20	50	1093-31-50-G049
2"	210	61	47	79	62	22	55	1093-31-61-G060
2"	210	65,8	47	79	62	22	55	1093-31-66-G060






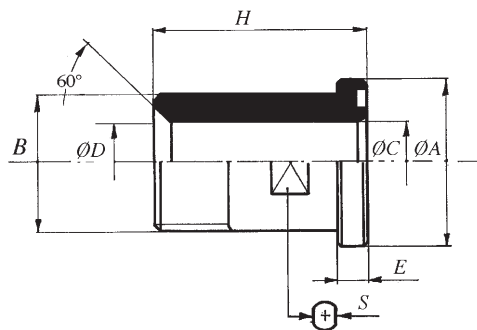
1093-36

CEL/CES
DIN 2353 24°

SAE J518-3000 PSI

**Adapterdraadflens
Collet fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde**

SAE	 BAR	 BAR DIN 2353	 DIN 2353	A	B METR.	C	D	E	H	S	Fe/Zn/YP REF.
1/2"	350	630	12S	30,2	M20x1,5	8	12	6,7	50	19	1093-36-12-G021
1/2"	350	315	15L	30,2	M22x1,5	12	15	6,7	50	19	1093-36-15-G021
1/2"	350	400	16S	30,2	M24x1,5	12	16	6,7	50	19	1093-36-16-G021
1/2"	350	315	18L	30,2	M26x1,5	14	18	6,7	50	19	1093-36-18-G021
3/4"	350	400	16S	38,1	M24x1,5	12	16	6,7	55	27	1093-36-16-G027
3/4"	350	400	20S	38,1	M30x2	16	20	6,7	55	27	1093-36-20-G027
3/4"	350	160	22L	38,1	M30x2	18	22	6,7	55	27	1093-36-22-G027
1"	350	400	20S	44,4	M30x2	16	20	8	60	32	1093-36-20-G033
1"	350	400	25S	44,4	M36x2	20	25	8	60	32	1093-36-25-G033
1"	350	160	28L	44,4	M36x2	23	28	8	60	32	1093-36-28-G033
1.1/4"	280	400	25S	50,8	M36x2	20	25	8	60	38	1093-36-25-G042
1.1/4"	280	400	30S	50,8	M42x2	25	30	8	60	38	1093-36-30-G042
1.1/4"	280	160	35L	50,8	M45x2	30	35	8	60	38	1093-36-35-G042
1.1/2"	210	160	35L	60,3	M45x2	30	35	8	65	46	1093-36-35-G049
1.1/2"	210	160	42L	60,3	M52x2	36	42	8	65	46	1093-36-42-G049
1.1/2"	210	315	38S	60,3	M52x2	32	38	8	65	46	1093-36-38-G049



1093-38

BSPP

60° → ← Globeseal

SAE J518-3000 PSI

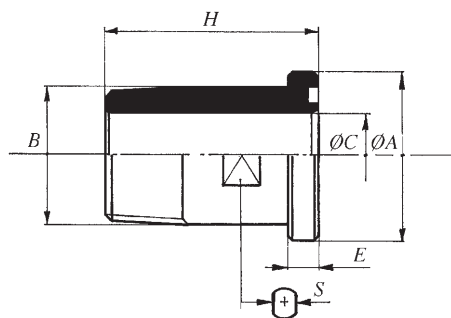
Adapterdraadflens

Collet fileté

Adapter threaded flange

Flansch-Schulter mit Gewinde

SAE	BAR	A	B BSPP	C	E	H	S	Fe/Zn/YP REF.
1/2"	350	30,2	G1/2	12	6,7	50	19	1093-38-08-G021
1/2"	350	30,2	G3/8	10	6,7	50	19	1093-38-06-G021
3/4"	350	38,1	G3/4	17	6,7	55	27	1093-38-12-G027
3/4"	350	38,1	G1/2	12	6,7	55	27	1093-38-08-G027
1"	350	44,4	G1	22	8	60	32	1093-38-16-G033
1"	350	44,4	G3/4	17	8	60	32	1093-38-12-G033
1.1/4"	280	50,8	G1.1/4	27	8	65	41	1093-38-20-G042
1.1/4"	280	50,8	G1	22	8	65	41	1093-38-16-G042
1.1/2"	210	60,3	G1.1/2	32	8	70	46	1093-38-24-G049
1.1/2"	210	60,3	G1.1/4	27	8	70	46	1093-38-20-G049
2"	210	71,4	G2	40	9,5	75	55	1093-38-32-G060
2"	210	71,4	G1.1/2	32	9,5	75	55	1093-38-24-G060



1093-39

BSPT

Threadseal

SAE J518-3000 PSI

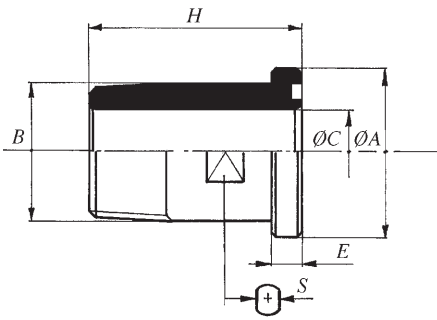
Adapterdraadflens

Collet fileté

Adapter threaded flange

Flansch-Schulter mit Gewinde

SAE	BAR	A	B BSPT	C	E	H	S	Fe/Zn/YP REF.
1/2"	350	30,2	R1/2	12	6,7	50	19	1093-39-08-G021
1/2"	350	30,2	R3/8	10	6,7	50	19	1093-39-06-G021
3/4"	350	38,1	R3/4	17	6,7	55	27	1093-39-12-G027
3/4"	350	38,1	R1/2	12	6,7	55	27	1093-39-08-G027
1"	350	44,4	R1	22	8	60	32	1093-39-16-G033
1"	350	44,4	R3/4	17	8	60	32	1093-39-12-G033
1.1/4"	280	50,8	R1.1/4	27	8	65	41	1093-39-20-G042
1.1/4"	280	50,8	R1	22	8	65	41	1093-39-16-G042
1.1/2"	210	60,3	R1.1/2	32	8	70	46	1093-39-24-G049
1.1/2"	210	60,3	R1.1/4	27	8	70	46	1093-39-20-G049
2"	210	71,4	R2	40	9,5	75	55	1093-39-32-G060
2"	210	71,4	R1.1/2	32	9,5	75	55	1093-39-24-G060



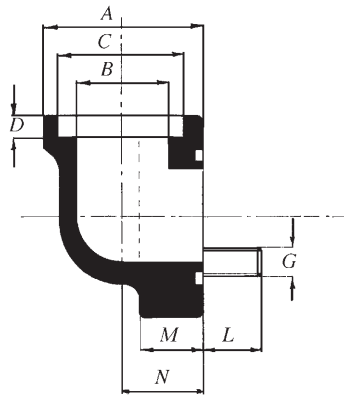
1093-40

NPTF
Threadseal

SAE J518-3000 PSI

Adapterdraadflens
Collet fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde

SAE	BAR	A	B NPTF	C	E	H	S	Fe/Zn/YP REF.
1/2"	350	30,2	1/2NPTF	12	6,7	50	19	1093-40-08-G021
1/2"	350	30,2	3/8NPTF	10	6,7	50	19	1093-40-06-G021
3/4"	350	38,1	3/4NPTF	17	6,7	55	27	1093-40-12-G027
3/4"	350	38,1	1/2NPTF	12	6,7	55	27	1093-40-08-G027
1"	350	44,4	1NPTF	22	8	60	32	1093-40-16-G033
1"	350	44,4	3/4NPTF	17	8	60	32	1093-40-12-G033
1.1/4"	280	50,8	1.1/4NPTF	27	8	65	41	1093-40-16-G042
1.1/4"	280	50,8	1NPTF	22	8	65	41	1093-40-20-G042
1.1/2"	210	60,3	1.1/2NPTF	32	8	70	46	1093-40-24-G049
1.1/2"	210	60,3	1.1/4NPTF	27	8	70	46	1093-40-20-G049
2"	210	71,4	2NPTF	40	9,5	75	55	1093-40-32-G060
2"	210	71,4	1.1/2NPTF	32	9,5	75	55	1093-40-24-G060

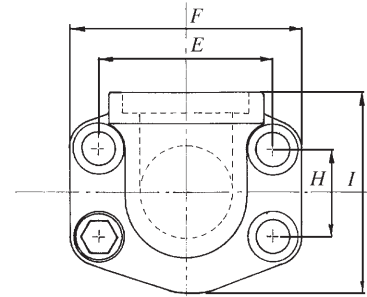


1093-50

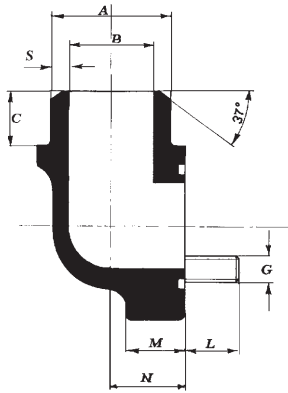
SOCKETWELD (90°) INCH

SAE 3000 PSI

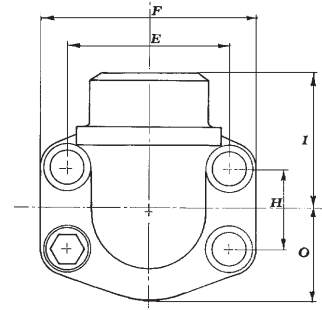
Inlasflens
Bride à souder
Weld-in flange
Einschweißflansch



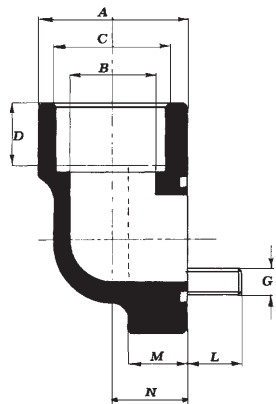
SAE	BAR	A	B	C		D	E	F	G		H	I	O	M	N	L	Fe/SM REF.
				INCH	MM				METR.	UNC							
1/2"	350	34	14	1/2	21,6	5	38	57	M8	5/16	17,5	28	23	17	18	13	1093-50-G021
3/4"	350	38,5	19	3/4	27,2	5	47,6	68	M10	3/8	22,2	25	25	18	22	15	1093-50-G027
1"	350	44,5	25	1	34,1	6	52,4	72	M10	3/8	26,2	28	27	19	28	15	1093-50-G033
1.1/4"	280	53,5	31	1.1/4	42,8	7	58,7	82	M10	7/16	30,2	34	34	22	30	17	1093-50-G042
1.1/2"	210	62,5	38	1.1/2	48,6	8	70	95	M12	1/2	35,7	43	39	25	36	18	1093-50-G049
2"	210	77	50	2	61	10	77,8	105	M12	1/2	42,9	50	44	25	41	18	1093-50-G060
2.1/2"	175	85	60	2.1/2	76,6	28	88,9	115	M12	1/2	50,8	77	50	25	50	18	1093-50-G076



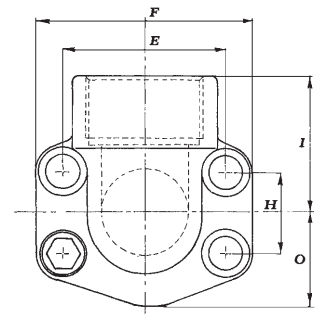
1093-51
BUTTWELD (90°) INCH
SAE 3000 PSI
Voorlasflens
Bride à souder
Buttweld flange
Anschweisflansch



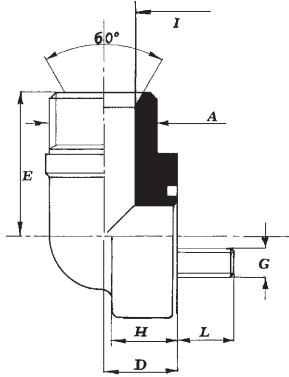
SAE	BAR	A		B	C	S	E	F	G		H	I	M	O	N	L	Fe/SM REF.
		INCH	MM						METR.	UNC							
1/2"	350	1/2	21,6	13	12	4,3	38	57	M8	5/16	17,5	40	17	23	18	13	1093-51-G021
3/4"	350	3/4	27,2	19	12	4,1	47,6	68	M10	3/8	22,2	41	18	25	22	15	1093-51-G027
1"	350	1	34,5	25	13	4,7	52,4	74	M10	3/8	26,2	50	19	27	28	15	1093-51-G033
1.1/4"	280	1.1/4	42,8	31	13	6	58,7	81	M10	7/16	30,2	57	22	34	30	17	1093-51-G042
1.1/2"	210	1.1/2	48,6	38	14	5,3	69,9	95	M12	1/2	35,7	66	25	39	36	18	1093-51-G049
2"	210	2	61	50	15	5,5	77,8	105	M12	1/2	42,9	66	25	44	41	18	1093-51-G060
2.1/2"	175	2.1/2	76,6	60	25	8	88,9	115	M12	1/2	50,8	77	25	50	50	18	1093-51-G076



1093-52
BSPP (90°)
Flatseal
SAE 3000 PSI
Draadflens
Bride taraudée
Threaded flange
Einschraubflansch



SAE	BAR	C BSPP	A	B	D	E	F	G		H	I	M	N	O	L	Fe/SM REF.
								METR.	UNC							
1/2"	350	G1/2	34	14	19	38	57	M8	5/16	17,5	36	17	18	23	13	1093-52-G021
3/4"	350	G3/4	38,5	19	19	47,6	68	M10	3/8	22,2	38	18	22	25	15	1093-52-G027
1"	350	G1	44,5	25	19	52,4	74	M10	3/8	26,2	41	19	28	27	15	1093-52-G033
1.1/4"	280	G1.1/4	53,5	31	22	58,7	81	M10	7/16	30,2	50	22	30	34	17	1093-52-G042
1.1/2"	210	G1.1/2	62,5	38	24	69,9	95	M12	1/2	35,7	58	25	36	39	18	1093-52-G049
2"	210	G2	77	50	26	77,8	105	M12	1/2	42,9	65	25	41	44	18	1093-52-G060
2.1/2"	175	G2.1/2	89	60	30	88,9	115	M12	1/2	50,8	77	25	50	50	18	1093-52-G076

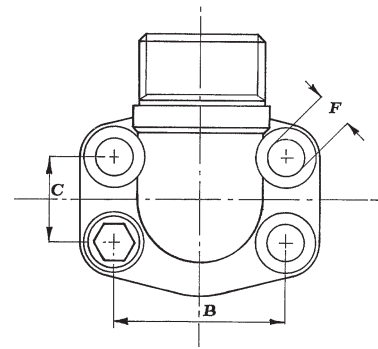


1093-53

BSPP (90°)
60° → ← Globeseal

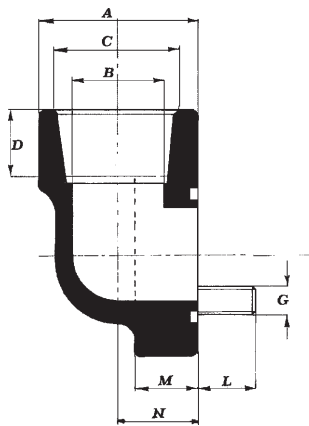
SAE 3000 PSI

**Draadflens
Bride filetée
Threaded flange
Gewindeflansch**



2

SAE	BAR	A BSPP	B	C	D	E	F	G		H	I	L	Fe/Zn/YP REF.
								METR.	UNC				
1/2"	350	G3/8	38	17,5	17	37	9	M8	5/16	16	10	14	1093-53-06-G021
1/2"	350	G1/2	38	17,5	17	39	9	M8	5/16	16	12	14	1093-53-08-G021
1/2"	350	G3/4	38	17,5	20	40	9	M8	5/16	16	13	14	1093-53-12-G021
3/4"	350	G1/2	47,6	22,2	20	41	11	M10	3/8	18	12	14	1093-53-08-G027
3/4"	350	G3/4	47,6	22,2	20	44	11	M10	3/8	18	17	14	1093-53-12-G027
3/4"	350	G1	47,6	22,2	25	45	11	M10	3/8	18	19	14	1093-53-16-G027
1"	350	G3/4	52,4	26,2	20	47	11	M10	3/8	19	17	14	1093-53-12-G033
1"	350	G1	52,4	26,2	25	48	11	M10	3/8	19	22	14	1093-53-16-G033
1"	350	G1.1/4	52,4	26,2	31	49	11	M10	3/8	19	25	14	1093-53-20-G033
1.1/4"	280	G1	58,7	30,2	25	54	11,5	M10	7/16	22	22	18	1093-53-16-G042
1.1/4"	280	G1.1/4	58,7	30,2	31	55	11,5	M10	7/16	22	27	18	1093-53-20-G042
1.1/4"	280	G1.1/2	58,7	30,2	37	56	11,5	M10	7/16	22	31	18	1093-53-24-G042
1.1/2"	210	G1.1/4	69,9	35,7	31	59	13,5	M12	1/2	25	27	18	1093-53-20-G049
1.1/2"	210	G1.1/2	69,9	35,7	37	61	13,5	M12	1/2	25	34	18	1093-53-24-G049

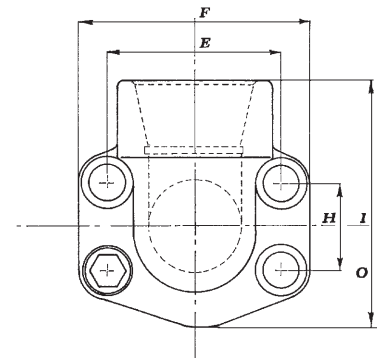


1093-56

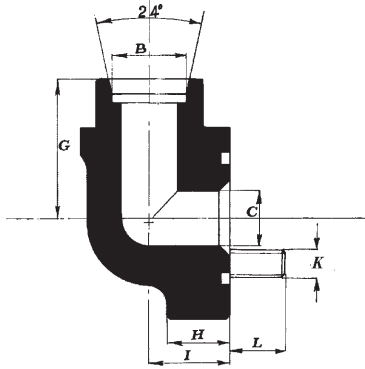
NPTF (90°)
Threadseal

SAE 3000 PSI

**Draadflens
Bride taraudée
Threaded flange
Einschraubflansch**



SAE	BAR	C NPTF	A	B	D	E	F	G		H	I	M	N	O	L	Fe/SM REF.
								METR.	UNC							
1/2"	350	1/2NPTF	34	13	19	38	57	M8	5/16	17,5	36	17	18	23	13	1093-56-G021
3/4"	350	3/4NPTF	38,5	19	19	47,6	68	M10	3/8	22,2	38	18	22	25	15	1093-56-G027
1"	350	1NPTF	44,5	25	19	52,4	74	M10	3/8	26,2	41	19	28	27	15	1093-56-G033
1.1/4"	280	1.1/4NPTF	53,5	31	22	58,7	81	M10	7/16	30,2	50	22	30	34	17	1093-56-G042
1.1/2"	210	1.1/2NPTF	62,5	38	24	69,9	95	M12	1/2	35,7	58	25	36	39	18	1093-56-G049
2"	210	2NPTF	77	50	26	77,8	105	M12	1/2	42,9	65	25	41	44	18	1093-56-G060
2.1/2"	175	2.1/2NPTF	89	60	30	88,9	115	M12	1/2	50,8	77	25	50	50	18	1093-56-G076

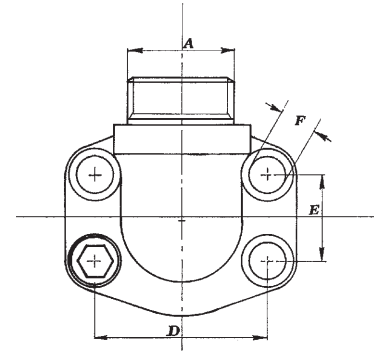


1093-61

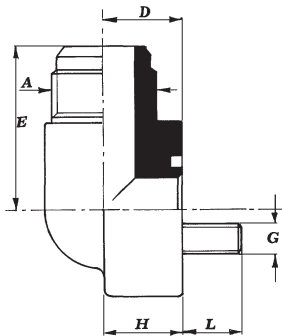
CEL/CES (90°)
DIN 2353 24°

SAE 3000 PSI

Draadflans
Bride filetée
Threaded flange
Gewindflansch



SAE	BAR	BAR DIN 2353	DIN 2353	A METR.	B	C	D	E	F	G	H	I	K		L	Fe/Zn/YP REF.
													METR.	UNC		
1/2"	350	630	12S	M20x1,5	12	8	38	17,5	9	36	16	18	M8	5/16	14	1093-61-12-G021
1/2"	350	315	15L	M22x1,5	15	11	38	17,5	9	36	16	18	M8	5/16	14	1093-61-15-G021
1/2"	350	400	16S	M24x1,5	16	12	38	17,5	9	36	16	18	M8	5/16	14	1093-61-16-G021
3/4"	350	400	16S	M24x1,5	16	12	47,6	22,2	11	38	18	22	M10	3/8	14	1093-61-16-G027
3/4"	350	400	20S	M30x2	20	16	47,6	22,2	11	38	18	22	M10	3/8	14	1093-61-20-G027
3/4"	350	160	22L	M30x2	22	18	47,6	22,2	11	38	18	22	M10	3/8	14	1093-61-22-G027
1"	350	400	20S	M30x2	20	16	52,4	26,2	11	42	19	28	M10	3/8	14	1093-61-20-G033
1"	350	400	25S	M36x2	25	20	52,4	26,2	11	42	19	28	M10	3/8	14	1093-61-22-G033
1"	350	160	28L	M36x2	28	23	52,4	26,2	11	42	19	28	M10	3/8	14	1093-61-28-G033
1.1/4"	280	400	25S	M36x2	25	20	58,7	30,2	11,5	50	22	30	M10	7/16	18	1093-61-25-G042
1.1/4"	280	400	30S	M42x2	30	25	58,7	30,2	11,5	50	22	30	M10	7/16	18	1093-61-30-G042
1.1/4"	280	160	35L	M45x2	35	30	58,7	30,2	11,5	50	22	30	M10	7/16	18	1093-61-35-G042
1.1/2"	210	160	35L	M45x2	35	30	69,7	35,7	13,5	58	25	36	M12	1/2	18	1093-61-35-G049
1.1/2"	210	315	38S	M52x2	38	32	69,7	35,7	13,5	58	25	36	M12	1/2	18	1093-61-38-G049
1.1/2"	210	160	42L	M52x2	42	36	69,7	35,7	13,5	58	25	36	M12	1/2	18	1093-61-42-G049

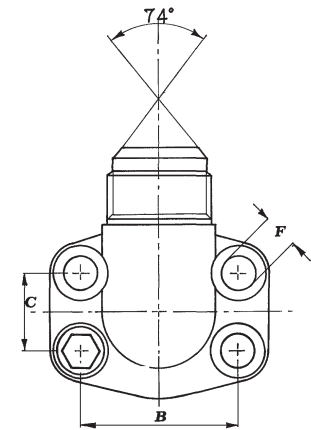


1093-66

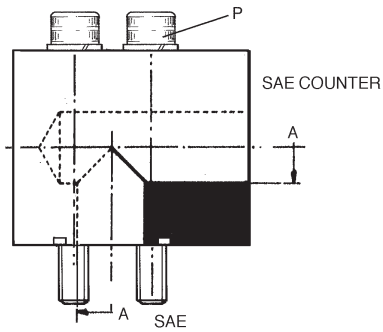
UN(F) - JIC 37° (90°)

SAE 3000 PSI

Draadflans
Bride filetée
Threaded flange
Gewindflansch



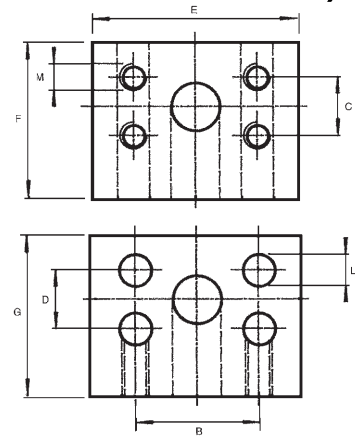
SAE	BAR	A UN(F)	B	C	D	E	F	G		H	L	Fe/Zn/YP REF.
								METR.	UNC			
1/2"	350	3/4-16UNF	38	17,5	17	40	9	M8	5/16	16	14	1093-66-08-G021
1/2"	350	7/8-14UNF	38	17,5	17	42	9	M8	5/16	16	14	1093-66-10-G021
1/2"	350	1.1/16-12UN	38	17,5	20	43	9	M8	5/16	16	14	1093-66-12-G021
3/4"	350	7/8-14UNF	47,6	22,2	20	45	11	M10	3/8	18	14	1093-66-10-G027
3/4"	350	1.1/16-12UN	47,6	22,2	20	47	11	M10	3/8	18	14	1093-66-12-G027
3/4"	350	1.5/16-12UN	47,6	22,2	25	48	11	M10	3/8	18	14	1093-66-16-G027
1"	350	1.1/16-12UN	52,4	26,2	20	50	11	M10	3/8	19	15	1093-66-12-G033
1"	350	1.5/16-12UN	52,4	26,2	25	51	11	M10	3/8	19	15	1093-66-16-G033
1.1/4"	280	1.5/16-12UN	58,7	30,2	25	56	11,5	M10	7/16	22	18	1093-66-16-G042
1.1/4"	280	1.5/8-12UN	58,7	30,2	31	58	11,5	M10	7/16	22	18	1093-66-20-G042
1.1/4"	280	1.7/8-12UN	58,7	30,2	37	61	11,5	M10	7/16	22	18	1093-66-24-G042
1.1/2"	210	1.5/8-12UN	69,9	35,7	31	63	13,5	M12	1/2	25	20	1093-66-20-G049
1.1/2"	210	1.7/8-12UN	69,9	35,7	37	66	13,5	M12	1/2	25	20	1093-66-24-G049



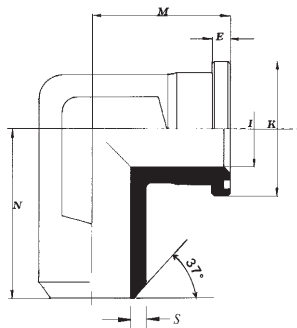
1093-70
SAE 3000 PSI-COUNTER (90°)

SAE 3000 PSI

L-blokflens
Bride bloc L
L-block flange
L-Blockflansch



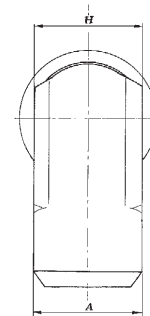
SAE	BAR	A	B	C	D	E	F	G	L	M	P	Fe/SM REF.
1.1/4"	280	31	58,7	30,2	30,2	80	80	80	11	M10	M10x100	1093-70-G042
1.1/2"	210	38	70	35,7	35,7	94	94	94	13,5	M12	M12x110	1093-70-G049
2"	210	50	77,8	42,9	42,9	103	87	87	13,5	M12	M12x105	1093-70-G060



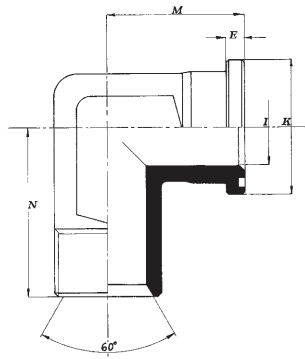
1093-76
BUTTWELD (90°)

SAE J518-3000 PSI

Adapterlasflens
Bride adapteur à souder
Adapter welding flange
Flansch-Schulter zum Vorschw.



SAE	BAR	A	K	I	E	H	M	N	S	Fe REF.
1/2"	350	21,6	30,2	13	6,7	22	44	50	4,3	1093-76-21-G021
3/4"	350	27,2	38,1	19	6,7	27	53	64	4,1	1093-76-27-G027
1"	350	34,5	44,4	25	8	34	60	65	4,7	1093-76-34-G033
1.1/4"	280	42,8	50,8	30	8	42	55	64	6,4	1093-76-42-G042
1.1/2"	210	48,6	60,3	38	8	50	66	78	5,3	1093-76-49-G049

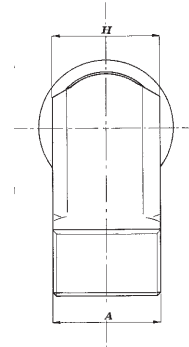



1093-78

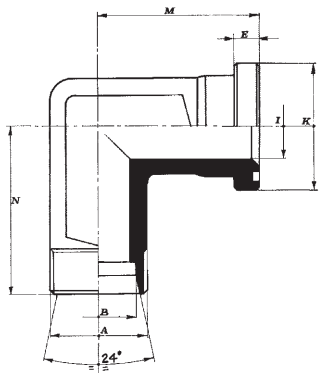
BSPP (90°)
60° → ← Globeseal

SAE J518-3000 PSI

**Adapterdraadflens
Bride adapteur filetée
Adapter threaded flange
Flansch-Schulter mit Gewinde**



SAE	 BAR	A BSPP	K	I	E	H	M	N	Fe/Zn/YP REF.
1/2"	350	G3/8	30,2	10	6,7	22	44	50	1093-78-06-G021
1/2"	350	G1/2	30,2	12	6,7	22	44	50	1093-78-08-G021
3/4"	350	G1/2	38,1	12	6,7	27	53	64	1093-78-08-G027
3/4"	350	G3/4	38,1	17	6,7	27	53	64	1093-78-12-G027
3/4"	350	G1	38,1	19	6,7	27	53	64	1093-78-16-G027
1"	350	G3/4	44,4	17	8	34	60	65	1093-78-12-G033
1"	350	G1	44,4	22	8	34	60	65	1093-78-16-G033
1"	350	G1.1/4	44,4	25	8	34	60	65	1093-78-20-G033
1.1/4"	280	G1	50,8	22	8	42	55	64	1093-78-16-G042
1.1/4"	280	G1.1/4	50,8	28	8	42	55	64	1093-78-20-G042
1.1/2"	210	G1.1/4	60,3	28	8	50	66	78	1093-78-20-G049
1.1/2"	210	G1.1/2	60,3	34	8	50	66	78	1093-78-24-G049

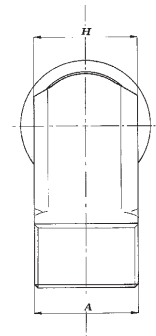





1093-86

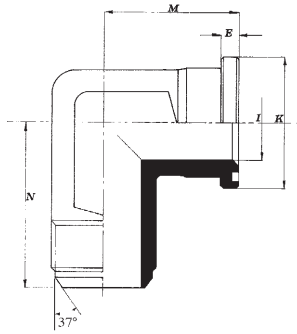
CEL/CES (90°)
DIN 2353 24°

SAE J518-3000 PSI

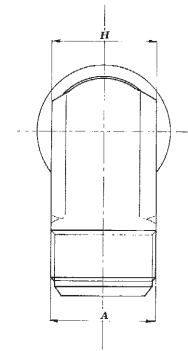
**Adapterdraadflens
Bride adapteur filetée
Adapter threaded flange
Flansch-Schulter mit Gewinde**



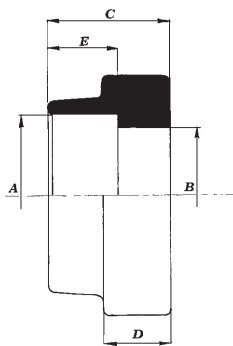
SAE	 BAR	 BAR DIN 2353	 Ø B DIN 2353	A METR.	K	I	E	H	M	N	Fe/Zn/YP REF.
1/2"	350	630	12S	M20x1,5	30,2	8	6,7	22	44	50	1093-86-12-G021
1/2"	350	315	15L	M22x1,5	30,2	11	6,7	22	44	50	1093-86-15-G021
1/2"	350	400	16S	M24x1,5	30,2	12	6,7	22	44	50	1093-86-16-G021
1/2"	350	315	18L	M26x1,5	30,2	14	6,7	22	44	50	1093-86-18-G021
3/4"	350	400	16S	M24x1,5	38,1	12	6,7	27	53	64	1093-86-16-G027
3/4"	350	400	20S	M30x2	38,1	16	6,7	27	53	64	1093-86-20-G027
3/4"	350	160	22L	M30x2	38,1	18	6,7	27	53	64	1093-86-22-G027
1"	350	400	20S	M30x2	44,4	16	8	34	60	65	1093-86-20-G033
1"	350	400	25S	M36x2	44,4	20	8	34	60	65	1093-86-25-G033
1"	350	160	28L	M36x2	44,4	23	8	34	60	65	1093-86-28-G033
1.1/4"	280	400	25S	M36x2	50,8	20	8	42	55	64	1093-86-25-G042
1.1/4"	280	400	30S	M42x2	50,8	25	8	42	55	64	1093-86-30-G042
1.1/4"	280	160	35L	M45x2	50,8	30	8	42	55	64	1093-86-35-G042
1.1/2"	210	160	35L	M45x2	60,3	30	8	50	66	78	1093-86-35-G049
1.1/2"	210	160	42L	M52x2	60,3	36	8	50	66	78	1093-86-42-G049
1.1/2"	210	315	38S	M52x2	60,3	32	8	50	66	78	1093-86-38-G049



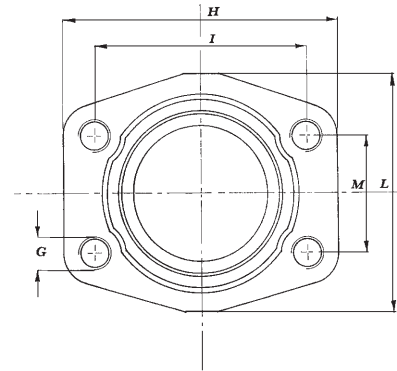
1093-91
 UN(F) - JIC 37° (90°)
 SAE J518-3000 PSI
 Adapterdraadflens
 Bride adapteur fileté
 Adapter threaded flange
 Flansch-Schulter mit Gewinde



SAE	BAR	A UN(F)	K	I	E	H	M	N	Fe/Zn/YP REF.
1/2"	350	3/4-16UNF	30,2	10	6,7	22	44	50	1093-91-08-G021
1/2"	350	7/8-14UNF	30,2	12	6,7	22	44	50	1093-91-10-G021
3/4"	350	7/8-14UNF	38,1	19	6,7	27	53	64	1093-91-10-G027
3/4"	350	1.1/16-12UN	38,1	19	6,7	27	53	64	1093-91-12-G027
3/4"	350	1.5/16-12UN	38,1	19	6,7	27	53	64	1093-91-16-G027
1"	350	1.1/16-12UN	44,4	22	8	34	60	65	1093-91-12-G033
1"	350	1.5/16-12UN	44,4	22	8	34	60	65	1093-91-16-G033
1"	350	1.5/8-12UN	44,4	22	8	34	60	65	1093-91-20-G033
1.1/4"	280	1.5/16-12UN	50,8	28	8	42	55	64	1093-91-16-G042
1.1/4"	280	1.5/8-12UN	50,8	28	8	42	55	64	1093-91-20-G042
1.1/2"	210	1.5/8-12UN	60,3	35	8	50	66	78	1093-91-20-G049
1.1/2"	210	1.7/8-12UN	60,3	35	8	50	66	78	1093-91-24-G049

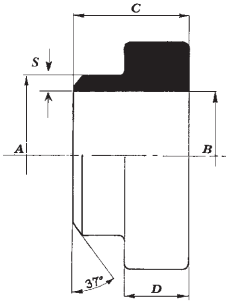


1094-01
 SOCKETWELD (INCH)
 SAE 3000 PSI-COUNTER
 Contra inlasflens
 Contre bride à souder
 Weld-in counter flange
 Einschweiß Gegenflansch



SAE	BAR	A		B	C	D	E	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	350	3/8	17,6	13	36	16	18	M8	5/16	57	38	47	17,5	1094-01-G017
1/2"	350	1/2	21,6	13	36	16	18	M8	5/16	57	38	47	17,5	1094-01-G021
3/4"	350	3/4	27,2	19	36	18	18	M10	3/8	66	47,6	49	22,2	1094-01-G027
1"	350	1	34,1	25	38	18	18	M10	3/8	70	52,4	53	26,2	1094-01-G033
1.1/4"	280	1.1/4	42,8	31	41	21	20	M10	7/16	80	58,7	69	30,2	1094-01-G042
1.1/2"	210	1.1/2	48,6	38	44	25	22	M12	1/2	94	70	77	35,7	1094-01-G049
2"	210	2	61	50	45	25	24	M12	1/2	103	77,8	89	42,9	1094-01-G060
2.1/2"	175	2.1/2	76,6	63	50	25	28	M12	1/2	115	89	101	50,8	1094-01-G076
3"	140	3	90,5	73	50	27	28	M16	5/8	135	106,4	124	62	1094-01-G090
3.1/2"	35	3.1/2	103	89	50	27	28	M16	5/8	153	120,7	137	70	1094-01-G101
4"	35	4	115	99	50	27	28	M16	5/8	163	130	147	77,8	1094-01-G114
5"	35	5	142	120	50	28	28	M16	5/8	184	152,4	180	92	1094-01-G140

* standaard METR./ standard METR./ standard METR. / standard METR.

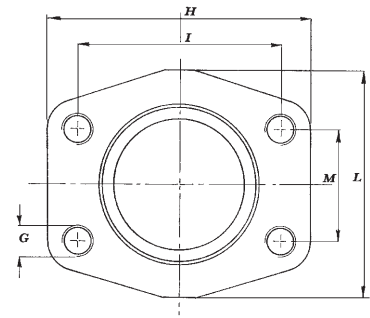


1094-02

BUTTWELD (INCH)

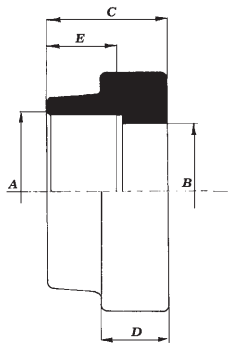
SAE 3000 PSI-COUNTER

Contra voorlasflens
Contre bride de liaison à souder
Buttweld counter flange
Anschweiß Gegenflansch



SAE	BAR	A		B	C	D	S	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	350	1/2	21,6	13	36	16	4,3	M8	5/16	57	38	47	17,5	1094-02-G021
3/4"	350	3/4	27,2	19	36	18	4,1	M10	3/8	66	47,6	49	22,2	1094-02-G027
1"	350	1	34,5	25	38	18	4,7	M10	3/8	71	52,4	53	26,2	1094-02-G033
1.1/4"	280	1.1/4	42,8	31	41	21	6	M10	7/16	80	58,7	69	30,2	1094-02-G042
1.1/2"	210	1.1/2	48,6	38	44	25	5,3	M12	1/2	94	70	77	35,7	1094-02-G049
2"	210	2	61	50	45	25	5,5	M12	1/2	103	77,8	89	42,9	1094-02-G060
2.1/2"	175	2.1/2	76,6	63	50	25	6,8	M12	1/2	115	89	101	50,8	1094-02-G076
3"	140	3	89	73	50	27	8	M16	5/8	135	106,4	124	62	1094-02-G090
3.1/2"	35	3.1/2	103	89	50	27	7	M16	5/8	153	120,7	137	70	1094-02-G101
4"	35	4	115	99	50	27	8	M16	5/8	163	130	147	77,8	1094-02-G114
5"	35	5	141	120	50	28	10,5	M16	5/8	184	152,4	180	92	1094-02-G140

* standaard METR./ standard METR./ standard METR. / standard METR.

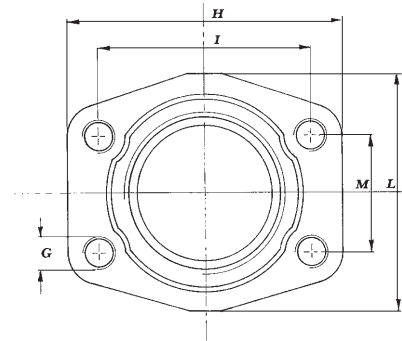


1094-03

BSPP
Flatseal

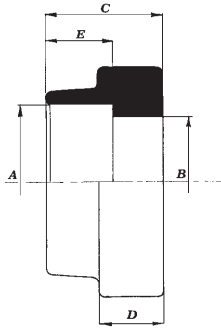
SAE 3000 PSI-COUNTER

Contra draadflens
Contre bride taraudée
Threaded counter flange
Gewinde Gegenflansch

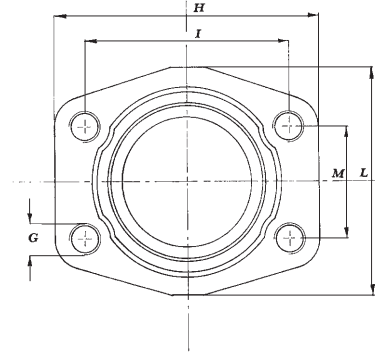


SAE	BAR	A BSPP	B	C	D	E	G*		H	I	L	M	Fe/SM REF.
							METR.	UNC					
1/2"	350	G3/8	13	36	16	19	M8	5/16	57	38	47	17,5	1094-03-G017
1/2"	350	G1/2	13	36	16	19	M8	5/16	57	38	47	17,5	1094-03-G021
3/4"	350	G3/4	19	36	18	19	M10	3/8	66	47,6	49	22,2	1094-03-G027
1"	350	G1	25	38	18	19	M10	3/8	71	52,4	53	26,2	1094-03-G033
1.1/4"	280	G1.1/4	31	41	21	22	M10	7/16	80	58,7	69	30,2	1094-03-G042
1.1/2"	210	G1.1/2	38	44	25	24	M12	1/2	94	70	77	35,7	1094-03-G049
2"	210	G2	50	45	25	26	M12	1/2	103	77,8	89	42,9	1094-03-G060
2.1/2"	175	G2.1/2	63	50	25	30	M12	1/2	115	89	101	50,8	1094-03-G076
3"	140	G3	73	50	27	34	M16	5/8	135	106,4	124	62	1094-03-G090
3.1/2"	35	G3.1/2	89	50	27	27	M16	5/8	152	120,7	136	70	1094-03-G101
4"	35	G4	99	50	27	30	M16	5/8	162	130	146	77,8	1094-03-G114
5"	35	G5	120	50	28	30	M16	5/8	184	152,4	180	92	1094-03-G140

* standaard METR./ standard METR./ standard METR. / standard METR.

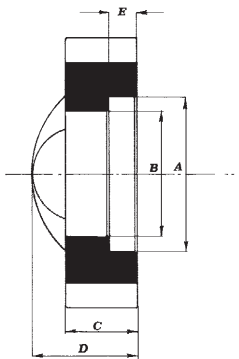


1094-10
SOCKETWELD (METR.)
SAE 3000 PSI-COUNTER
 Contra inlasflens
 Contre bride à souder
 Weld-in counter flange
 Einschweiß Gegenflansch

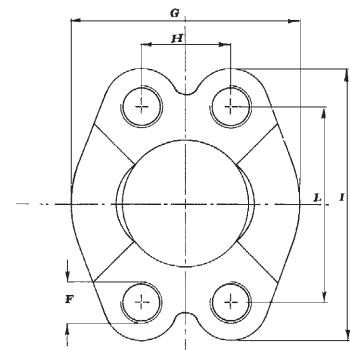


SAE	BAR	A	B	C	D	E	G*		H	I	L	M	Fe/SM REF.
							METR.	UNC					
1/2"	350		13	36	16	18	M8	5/16	57	38	47	17,5	1094-10-20-G021 1094-10-25-G027 1094-10-30-G033 1094-10-38-G042 1094-10-50-G049 1094-10-65-G060
1/2"	350	20,3	14	36	16	18	M8	5/16	57	38	47	17,5	
3/4"	350	25,3	19	36	18	18	M10	3/8	66	47,6	49	22,2	
1"	350	30,3	22	38	18	18	M10	3/8	70	52,4	53	26,2	
1.1/4"	280	38,3	30	41	21	20	M10	7/16	80	58,7	69	30,2	
1.1/2"	210	50,3	38	44	25	22	M12	1/2	94	70	77	35,7	
2"	210	65,3	50	45	25	24	M12	1/2	103	77,8	89	42,9	
2.1/2"	175		63	50	25	28	M12	1/2	115	89	101	50,8	1094-10-20-G021 1094-10-25-G027 1094-10-30-G033 1094-10-38-G042 1094-10-50-G049 1094-10-65-G060
3"	140		73	50	27	28	M16	5/8	135	106,4	124	62	
3.1/2"	35		89	50	27	28	M16	5/8	153	120,7	137	70	
4"	35		99	50	27	28	M16	5/8	163	130	147	77,8	
5"	35		120	50	28	28	M16	5/8	184	152,4	180	92	

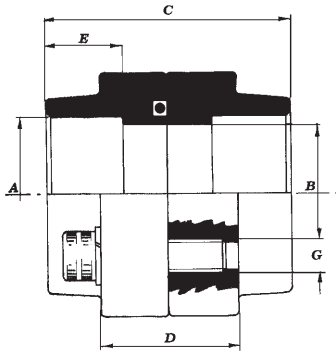
* standaard METR./ standard METR./ standard METR. / standard METR.



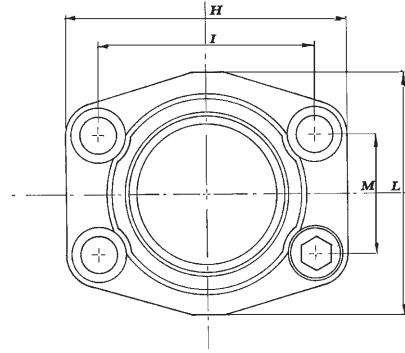
1094-24
COMBI
SAE 3000 PSI-COUNTER
 Volle contra flens
 Contre bride entière
 Undivided split counter flange
 Gegen Vollflansch



SAE	BAR SAE	A	B	C	D	E	F	G	H	I	L	Fe 52.3/Zn/YP REF.
1/2"	350	31	24,3	13	20	6,2	M8	46	17,4	54	38,1	1094-24-G021
3/4"	350	38,9	32,1	14	22	6,2	M10	52	22,2	65	47,6	1094-24-G027
1"	350	45,2	38,5	16	22	7,5	M10	59	26,2	70	52,4	1094-24-G033
1.1/4"	280	51,6	43,7	14	22	7,5	M10	73	30,2	80	58,7	1094-24-G042
1.1/4"	280	51,6	43,7	14	22	7,5	M12	73	30,2	80	58,7	1094-24-G042B
1.1/2"	210	61,1	50,8	16	24	7,5	M12	83	35,8	94	69,9	1094-24-G049
1.1/2"	210	61,1	50,8	16	24	7,5	M14	83	35,8	94	69,9	1094-24-G049B
2"	210	72,2	62,7	16	26	9	M12	97	42,8	102	77,8	1094-24-G060
2"	210	72,2	62,7	16	26	9	M14	97	42,8	102	77,8	1094-24-G060B
2.1/2"	175	84,9	74,9	19	38	9	M12	109	50,8	115	88,9	1094-24-G076
2.1/2"	175	84,9	74,9	19	38	9	M14	109	50,8	115	88,9	1094-24-G076B
3"	140	102,4	90,9	22	40	9	M16	131	62	135	106,4	1094-24-G090
3.1/2"	35	115	102,4	23	45	10,7	M16	140	69,9	152	120,7	1094-24-G101
4"	35	127,8	115,1	25	48	10,7	M16	150	77,8	160	130,2	1094-24-G114
5"	35	153,2	140,5	28	50	10,7	M16	180	92	183	152,4	1094-24-G140



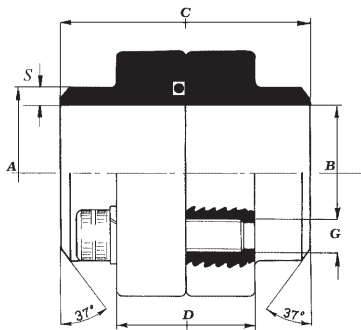
1095-01
SOCKETWELD (INCH)
SAE 3000 PSI
Inlaskoppelflens
Bride de liaison à souder
Double weld-in flange
Doppeleinschweißflansch



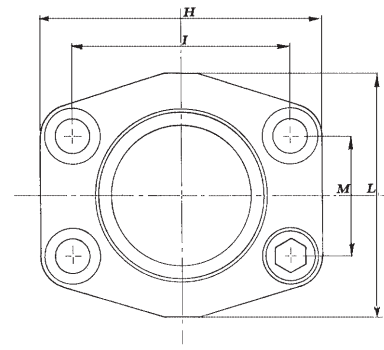
SAE	BAR	A*		B	C	D	E	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	350	3/8	17,5	13	72	36	18	M8	5/16	57	38	47	17,5	1095-01-01-G017
1/2"	350	1/2	21,6	13	72	36	18	M8	5/16	57	38	47	17,5	1095-01-01-G021
3/4"	350	3/4	27,2	19	72	36	18	M10	3/8	66	47,6	49	22,2	1095-01-01-G027
1"	350	1	34,1	25	76	36	18	M10	3/8	71	52,4	53	26,2	1095-01-01-G033
1.1/4"	280	1.1/4	42,8	31	82	42	20	M10	7/16	80	58,7	69	30,2	1095-01-01-G042
1.1/2"	210	1.1/2	48,6	38	88	48	22	M12	1/2	94	70	77	35,7	1095-01-01-G049
2"	210	2	61	50	90	48	24	M12	1/2	103	77,8	89	42,9	1095-01-01-G060
2.1/2"	175	2.1/2	76,6	63	100	48	28	M12	1/2	116	89	101	50,8	1095-01-01-G076
3"	140	3	90,5	73	100	53	28	M16	5/8	135	106,4	124	62	1095-01-01-G090
3.1/2"	35	3.1/2	103	89	100	54	28	M16	5/8	153	120,7	137	70	1095-01-01-G101
4"	35	4	115,5	99	100	54	28	M16	5/8	163	130	147	77,8	1095-01-01-G114
5"	35	5	142	120	100	54	28	M16	5/8	184	152,4	180	92	1095-01-01-G140

* standaard METR. / standard METR. / standard METR. / standard METR.

• METR.  Ref. 1093-10
 Ref. 1094-10

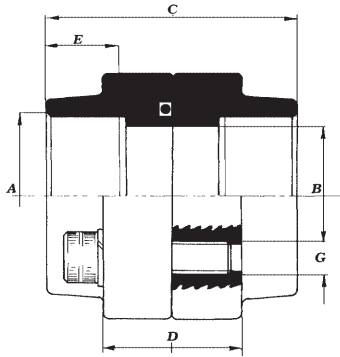


1095-02
BUTTWELD (INCH)
SAE 3000 PSI
Voorlaskoppelflens
Bride de liaison à souder
Double butt weld flange
Doppelanschweißflansch



SAE	BAR	A		B	C	D	S	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	350	1/2	21,6	13	72	32	4,3	M8	5/16	57	38	47	17,5	1095-02-02-G021
3/4"	350	3/4	27,2	19	72	36	4,1	M10	3/8	66	47,6	49	22,2	1095-02-02-G027
1"	350	1	34,5	25	76	36	4,7	M10	3/8	71	52,4	53	26,2	1095-02-02-G033
1.1/4"	280	1.1/4	42,8	31	82	42	6	M10	7/16	80	58,7	69	30,2	1095-02-02-G042
1.1/2"	210	1.1/2	48,6	38	88	48	5,3	M12	1/2	94	70	77	35,7	1095-02-02-G049
2"	210	2	61	50	90	48	5,5	M12	1/2	103	77,8	89	42,9	1095-02-02-G060
2.1/2"	175	2.1/2	76,6	63	100	48	6,8	M12	1/2	115	89	101	50,8	1095-02-02-G076
3"	140	3	89	73	100	53	8	M16	5/8	135	106,4	124	62	1095-02-02-G090
3.1/2"	35	3.1/2	103	89	100	54	7	M16	5/8	153	120,7	137	70	1095-02-02-G101
4"	35	4	115	99	100	54	8	M16	5/8	163	130	147	77,8	1095-02-02-G114
5"	35	5	141	120	100	54	10,5	M16	5/8	184	152,4	180	92	1095-02-02-G140

* standaard METR. / standard METR. / standard METR. / standard METR.

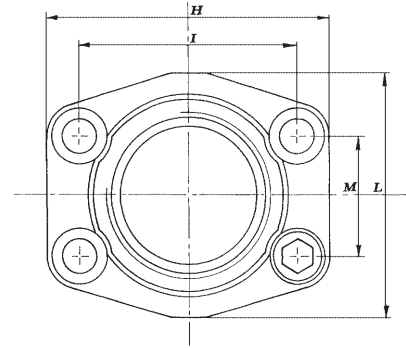


1095-03

BSPP
Flatseal

SAE 3000 PSI

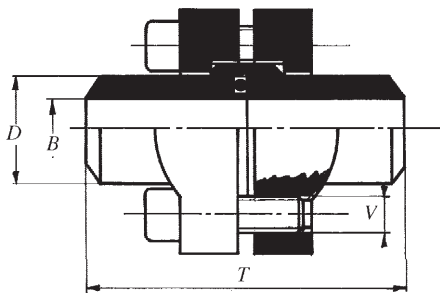
Draadkoppelflens
Bride de liaison taraudée
Double threaded flange
Doppelgewindeflansch



2

SAE	BAR	A BSPP	B	C	D	E	G*		H	I	L	M	Fe/SM REF.
							METR.	UNC					
1/2"	350	G3/8	13	72	32	19	M8	5/16	57	38	47	17,5	1095-03-03-G017
1/2"	350	G1/2	13	72	32	19	M8	5/16	57	38	47	17,5	1095-03-03-G021
3/4"	350	G3/4	19	72	36	19	M10	3/8	66	47,6	49	22,2	1095-03-03-G027
1"	350	G1	25	76	36	19	M10	3/8	71	52,4	53	26,2	1095-03-03-G033
1.1/4"	280	G1.1/4	31	82	42	22	M10	7/16	80	58,7	69	30,2	1095-03-03-G042
1.1/2"	210	G1.1/2	38	88	48	24	M12	1/2	94	70	77	35,7	1095-03-03-G049
2"	210	G2	50	90	48	26	M12	1/2	103	77,8	89	42,9	1095-03-03-G060
2.1/2"	175	G2.1/2	63	100	48	30	M12	1/2	115	89	101	50,8	1095-03-03-G076
3"	140	G3	73	100	53	34	M16	5/8	135	106,4	124	62	1095-03-03-G090
3 1/2"	35	G3.1/2	89	100	54	27	M16	5/8	152	120,7	136	70	1095-03-03-G101
4"	35	G4	99	100	54	30	M16	5/8	162	130	146	77,8	1095-03-03-G114
5"	35	G5	120	100	54	30	M16	5/8	184	152,4	180	92	1095-03-03-G140

* standaard METR. / standard METR. / standard METR. / standard METR.

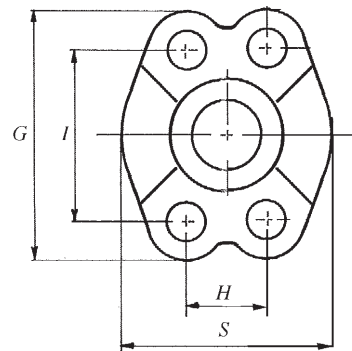


1095-27

BUTTWELD (INCH)

SAE 3000 PSI

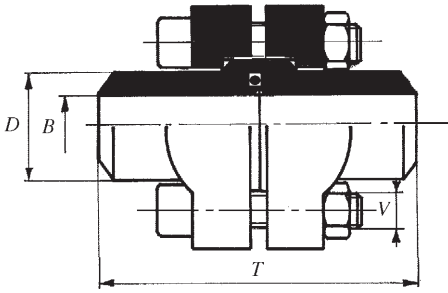
Voorlaskoppelflens
Bride de liaison à souder
Double buttweld flange
Doppelanschweißflansch



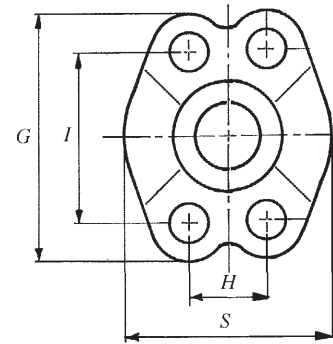
SAE	BAR	B	D	T	S	G	H	I	V*	Fe/SM REF.
1/2"	350	14	22	90	46	54	17,4	38,1	M8x30	1095-27-27-G021
3/4"	350	19	28	100	52	65	22,2	47,6	M10x30	1095-27-27-G027
1"	350	25	35	110	59	70	26,2	52,4	M10x35	1095-27-27-G033
1.1/4"	280	32	43	120	73	80	30,2	58,7	M12x30	1095-27-27-G042
1.1/2"	210	38	50	130	83	94	35,8	69,9	M14x35	1095-27-27-G049
2"	210	47	62	140	97	102	42,8	77,8	M14x35	1095-27-27-G060
2.1/2"	175	63	74	150	109	115	50,8	88,9	M14x40	1095-27-27-G076
3"	140	73	90	170	131	135	62	106,4	M16x45	1095-27-27-G090
3.1/2"	35	89	102	180	140	152	69,86	120,65	M16x50	1095-27-27-G101
4"	35	99	114	200	150	160	77,8	130,18	M16x50	1095-27-27-G114

* standaard METR. / standard METR. / standard METR. / standard METR.

2

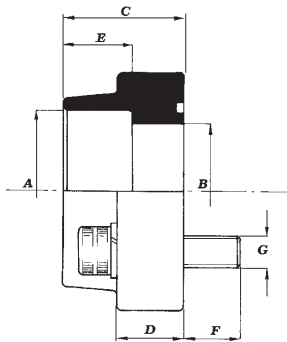


1095-28
BUTTWELD-BOLT/NUT (INCH)
SAE 3000 PSI
Voorlaskoppelflens
Bride de liaison à souder
Double butt weld flange
Doppelanschweißflansch

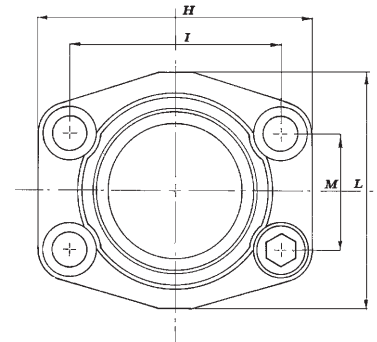


SAE	BAR	B	D	T	S	G	H	I	V*	Fe/SM REF.
1/2"	350	14	22	90	46	54	17,4	38,1	M8x35	1095-28-28-G021
3/4"	350	19	28	100	52	65	22,2	47,6	M10x45	1095-28-28-G027
1"	350	25	35	110	59	70	26,2	52,4	M10x45	1095-28-28-G033
1.1/4"	280	32	43	120	73	80	30,2	58,7	M12x45	1095-28-28-G042
1.1/2"	210	38	50	130	83	94	35,8	69,9	M14x50	1095-28-28-G049
2"	210	47	62	140	97	102	42,8	77,8	M14x50	1095-28-28-G060
2.1/2"	175	63	74	150	109	115	50,8	88,9	M14x55	1095-28-28-G076
3"	140	73	90	170	131	135	62	106,4	M16x60	1095-28-28-G090
3.1/2"	35	89	102	180	140	152	69,86	120,65	M16x70	1095-28-28-G101
4"	35	99	114	200	150	160	77,8	130,18	M16x70	1095-28-28-G114

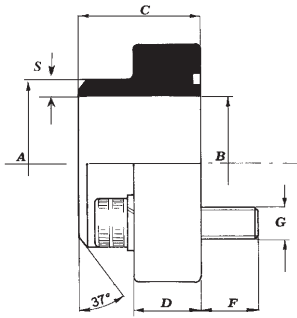
* standaard METR. / standard METR. / standard METR. / standard METR.



1096-01
SOCKETWELD (INCH)
SAE 6000 PSI
Inlasflens
Bride à souder
Weld-in flange
Einschweißflansch



SAE	BAR	A		B	C	D	E	F	G		H	I	L	M	Fe/SM REF.
		INCH	MM						METR.	UNC					
1/2"	420	3/8	17,5	13	36	16	18	14	M8	5/16	57	40,5	47	18,3	1096-01-G017
1/2"	420	1/2	21,6	13	36	16	18	14	M8	5/16	57	40,5	47	18,3	1096-01-G021
3/4"	420	3/4	27,2	19	36	19	20	16	M10	3/8	71	50,8	53	23,8	1096-01-G027
1"	420	1	34,1	25	44	24	22	19	M12	7/16	80	57,1	66	27,8	1096-01-G033
1.1/4"	420	1.1/4	42,8	31	44	27	22	22	M14	1/2	94	66,7	77	31,6	1096-01-G042
1.1/2"	420	1.1/2	48,6	38	51	30	24	24	M16	5/8	106	79,4	89	36,7	1096-01-G049
2"	420	2	61	50	70	37	25	32	M20	3/4	135	96,8	116	44,4	1096-01-G060
2.1/2"	420	2.1/2	76,6	63	75	45	28	40	M24	-	166	123,8	150	58,7	1096-01-G076
3"	420	3	90,5	73	90	55	30	55	M30	-	208	152,4	178	71,4	1096-01-G090

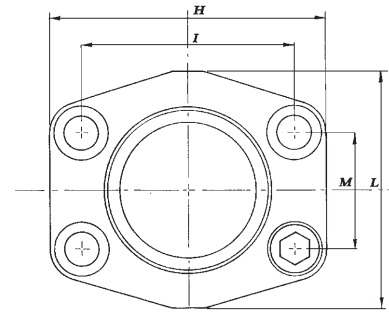


1096-02

BUTTWELD (INCH)

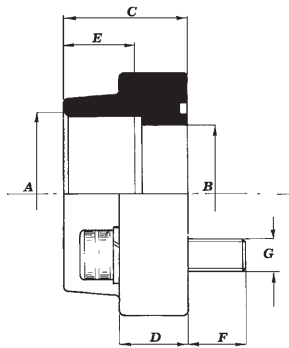
SAE 6000 PSI

**Voorlasflens
Bride à souder
Buttweld flange
Anschweißflansch**



2

SAE	BAR	A		B	C	D	S	F	G		H	I	L	M	Fe/SM REF.
		INCH	MM						METR.	UNC					
1/2"	420	3/8	17,5	10	36	18	3,7	14	M8	5/16	57	40,5	47	18,3	1096-02-G017
1/2"	420	1/2	21,6	13	36	18	4,3	14	M8	5/16	57	40,5	47	18,3	1096-02-G021
3/4"	420	3/4	27,2	18	36	18	4,6	16	M10	3/8	71	50,8	53	23,8	1096-02-G027
1"	420	1	34,5	22	44	24	6,3	19	M12	7/16	80	57,1	66	27,8	1096-02-G033
1.1/4"	420	1.1/4	42,8	28	44	25	7,4	22	M14	1/2	94	66,7	77	31,6	1096-02-G042
1.1/2"	420	1.1/2	48,6	32	51	29	8,3	24	M16	5/8	106	79,4	89	36,7	1096-02-G049
2"	420	2	61	41	70	35	10	32	M20	3/4	135	96,8	116	44,4	1096-02-G060
2.1/2"	420	2.1/2	76,6	50	75	45	13	40	M24	-	166	123,8	150	58,7	1096-02-G076
3"	420	3	90	58	90	55	16	55	M30	-	208	152,4	178	71,4	1096-02-G090

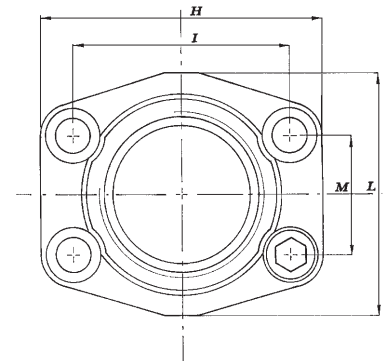


1096-03

**BSPP
Flatseal**

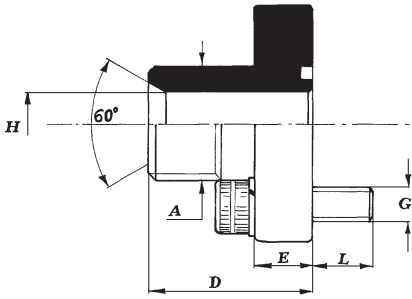
SAE 6000 PSI

**Draadflens
Bride taraudée
Threaded flange
Einschraubflansch**



SAE	BAR	A BSPP	B	C	D	E	F	G		H	I	L	M	Fe/SM REF.
								METR.	UNC					
1/2"	420	G3/8	13	36	16	13	14	M8	5/16	57	40,5	47	18,3	1096-03-G017
1/2"	420	G1/2	13	36	16	15	14	M8	5/16	57	40,5	47	18,3	1096-03-G021
3/4"	420	G3/4	19	36	19	18	16	M10	3/8	71	50,8	53	23,8	1096-03-G027
1"	420	G1	25	44	24	20	19	M12	7/16	80	57,1	69	27,8	1096-03-G033
1.1/4"	420	G1.1/4	31	44	27	22	22	M14	1/2	94	66,7	77	31,6	1096-03-G042
1.1/2"	420	G1.1/2	38	51	30	24	24	M16	5/8	106	79,4	89	36,7	1096-03-G049
2"	420	G2	50	70	37	33	32	M20	3/4	135	96,8	116	44,4	1096-03-G060
2.1/2"	420	G2.1/2	63	75	45	35	40	M24	-	166	123,8	150	58,7	1096-03-G076
3"	420	G3	73	90	55	40	55	M30	-	208	152,4	178	71,4	1096-03-G090

2

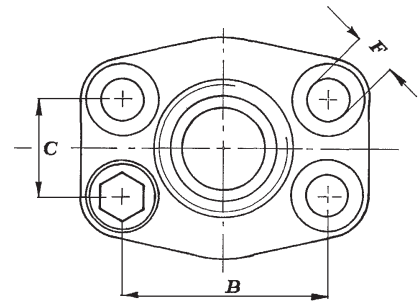


1096-04

BSPP
60° → ← Globeseal

SAE 6000 PSI

Draadflens
Bride fileté
Threaded flange
Außengewindeflansch



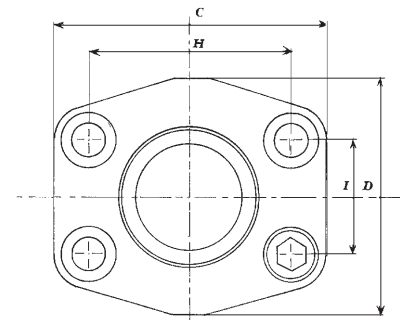
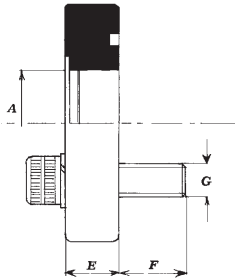
SAE	BAR	A BSPP	B	C	D	E	F	G		H	L	Fe/Zn/YP REF.
								METR.	UNC			
1/2"	420	G3/8	40,5	18,2	38	16	9	M8	5/16	10	14	1096-04-06-G021
1/2"	420	G1/2	40,5	18,2	40	16	9	M8	5/16	12	14	1096-04-08-G021
1/2"	420	G3/4	40,5	18,2	43	16	9	M8	5/16	13	14	1096-04-12-G021
3/4"	420	G1/2	50,8	23,8	44	18	11	M10	3/8	12	14	1096-04-08-G027
3/4"	420	G3/4	50,8	23,8	47	18	11	M10	3/8	17	14	1096-04-12-G027
3/4"	420	G1	50,8	23,8	49	18	11	M10	3/8	19	14	1096-04-16-G027
1"	420	G3/4	57,1	27,8	54	21	13	M12	7/16	17	18	1096-04-12-G033
1"	420	G1	57,1	27,8	56	21	13	M12	7/16	22	18	1096-04-16-G033
1"	420	G1.1/4	57,1	27,8	56	21	13	M12	7/16	25	18	1096-04-20-G033
1.1/4"	420	G1	66,7	31,6	61	24	15	M14	1/2	22	18	1096-04-16-G042
1.1/4"	420	G1.1/4	66,7	31,6	61	24	15	M14	1/2	27	18	1096-04-20-G042
1.1/4"	420	G1.1/2	66,7	31,6	63	24	15	M14	1/2	31	18	1096-04-24-G042
1.1/2"	420	G1.1/4	79,4	36,7	65	27	17	M16	5/8	27	20	1096-04-20-G049
1.1/2"	420	G1.1/2	79,4	36,7	67	27	17	M16	5/8	32	20	1096-04-24-G049

1096-05

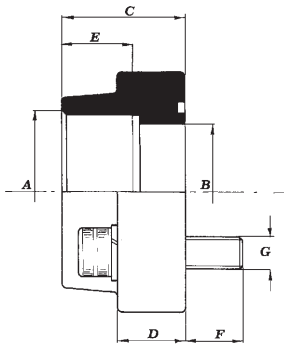
BSPP
Flatseal

SAE 6000 PSI

Platte draadflens
Bride plate taraudée
Threaded flat flange
Flache Gewindeflansch



SAE	A BSPP	C	D	E	F	G		H	I	OR REF.	Fe/SM REF.
						METR.	UNC				
1/2"	G3/8	57	47	16	14	M8	5/16	40,5	18,3	1099-4-G021	1096-05-06-G021
1/2"	G1/2	57	47	16	14	M8	5/16	40,5	18,3	1099-4-G021-1	1096-05-08-G021
3/4"	G1/2	71	53	19	16	M10	3/8	50,8	23,8	1099-4-G027	1096-05-08-G027
3/4"	G3/4	71	53	19	16	M10	3/8	50,8	23,8	1099-4-G027-1	1096-05-12-G027
1"	G3/4	80	66	24	18	M12	7/16	57,1	27,8	1099-4-G033	1096-05-12-G033
1"	G1	80	66	24	18	M12	7/16	57,1	27,8	1099-4-G042	1096-05-16-G033
1.1/4"	G1	94	77	27	24	M14	1/2	66,7	31,6	1099-4-G042	1096-05-16-G042
1.1/4"	G1.1/4	94	77	27	24	M14	1/2	66,7	31,6	1099-4-G042-1	1096-05-20-G042
1.1/2"	G1.1/4	103	89	30	24	M16	5/8	79,4	36,7	1099-4-G049	1096-05-20-G049
1.1/2"	G1.1/2	103	89	30	24	M16	5/8	79,4	36,7	1099-4-G049-1	1096-05-24-G049
2"	G1.1/2	135	123	35	31	M20	3/4	96,8	44,4	1099-4-G060	1096-05-24-G060
2"	G2	135	123	35	31	M20	3/4	96,8	44,4	1099-4-G060-1	1096-05-32-G060

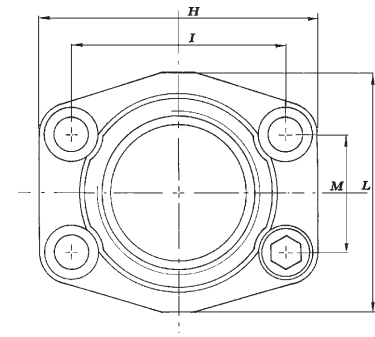


1096-07

NPTF
Threadseal

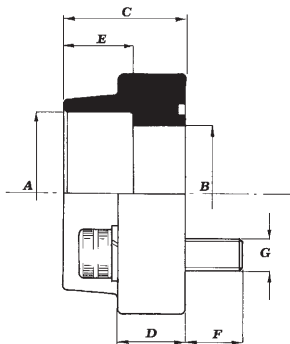
SAE 6000 PSI

Draadflens
Bride taraudée
Threaded flange
Einschraubflansch



2

SAE	BAR	A NPTF	B	C	D	E	F	G		H	I	L	M	Fe/SM REF.
								METR.	UNC					
1/2"	420	3/8NPTF	13	36	16	19	14	M8	5/16	57	40,5	47	18,3	1096-07-G017
1/2"	420	1/2NPTF	13	36	16	19	14	M8	5/16	57	40,5	47	18,3	1096-07-G021
3/4"	420	3/4NPTF	19	36	19	22	16	M10	3/8	71	50,8	53	23,8	1096-07-G027
1"	420	1NPTF	25	44	24	24	19	M12	7/16	80	57,1	69	27,8	1096-07-G033
1.1/4"	420	1.1/4NPTF	31	44	27	25	22	M14	1/2	94	66,7	77	31,6	1096-07-G042
1.1/2"	420	1.1/2NPTF	38	51	30	28	24	M16	5/8	106	79,4	89	36,7	1096-07-G049
2"	420	2NPTF	50	70	37	33	32	M20	3/4	135	96,8	116	44,4	1096-07-G060
2.1/2"	420	2.1/2NPTF	63	75	45	35	40	M24	-	166	123,8	150	58,7	1096-07-G076
3"	420	3NPTF	73	90	55	40	55	M30	-	208	152,4	178	71,4	1096-07-G090

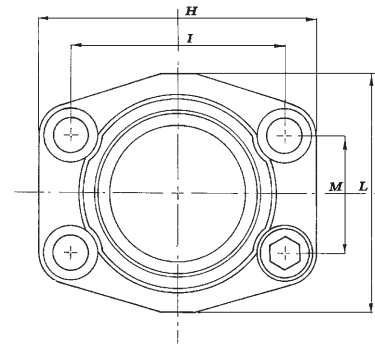


1096-10

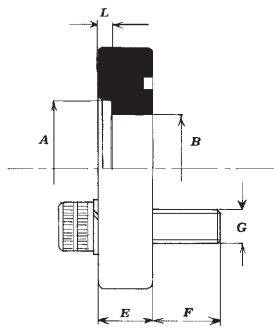
SOCKETWELD (METR.)

SAE 6000 PSI

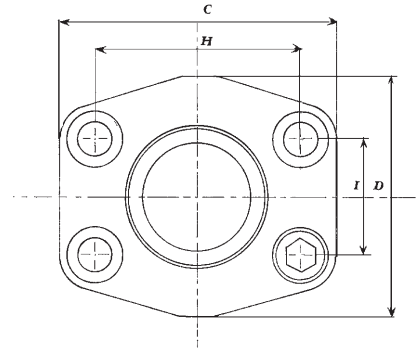
Inlasflens
Bride à souder
Weld-in flange
Einschweißflansch



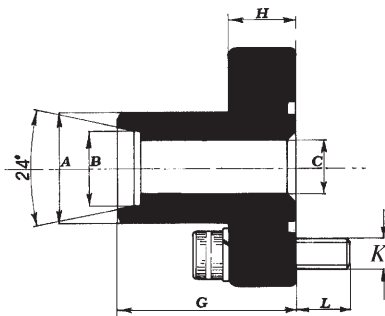
SAE	BAR	A	B	C	D	E	F	G		H	I	L	M	Fe/SM REF.
								METR.	UNC					
1/2"	420		13	36	16	18	14	M8	5/16	57	40,5	47	18,3	☐
1/2"	420	20,3	14	36	16	18	14	M8	5/16	57	40,5	47	18,3	1096-10-20-G021
3/4"	420	25,3	17	36	19	20	16	M10	3/8	71	50,8	53	23,8	1096-10-25-G027
1"	420	30,3	20	44	24	22	19	M12	7/16	80	57,1	66	27,8	1096-10-30-G033
1.1/4"	420	38,3	28	44	27	22	22	M14	1/2	94	66,7	77	31,6	1096-10-38-G042
1.1/2"	420	38,3	28	51	30	24	24	M16	5/8	106	79,4	89	36,7	1096-10-38-G049
1.1/2"	420	50,3	34	51	30	24	24	M16	5/8	106	79,4	89	36,7	1096-10-50-G049
2"	420	65,3	49	70	37	25	32	M20	3/4	135	96,8	116	44,4	1096-10-65-G060
2.1/2"	420		63	75	45	28	40	M24	-	166	123,8	150	58,7	☐
3"	420		73	90	55	30	55	M30	-	208	152,4	178	71,4	☐



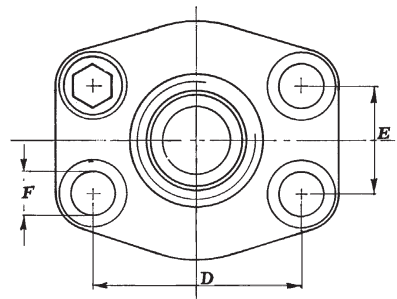
1096-11
SOCKETWELD (INCH)
SAE 6000 PSI
Platte inlasflens
Bride plate à souder
Flat weld-in flange
Flache Einschweißflansch



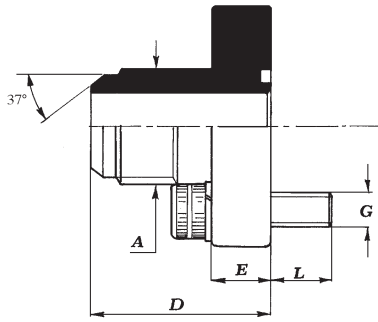
SAE	A	B	C	D	E	F	G		H	I	L	Fe/SM REF.
							METR.	UNC				
1/2"	17,5	13	57	47	16	14	M8	5/16	40,5	18,3	4	1096-11-17-G021
1/2"	21,6	13	57	47	16	14	M8	5/16	40,5	18,3	4	1096-11-21-G021
3/4"	21,6	13	71	53	19	16	M10	3/8	50,8	23,8	4	1096-11-21-G027
3/4"	27,2	19	71	53	19	16	M10	3/8	50,8	23,8	4	1096-11-27-G027
1"	27,2	19	80	66	24	18	M12	7/16	57,1	27,8	4	1096-11-27-G033
1"	34,5	25	80	66	24	18	M12	7/16	57,1	27,8	4	1096-11-34-G033
1.1/4"	34,5	25	94	77	27	24	M14	1/2	66,7	31,6	4	1096-11-34-G042
1.1/4"	42,8	31	94	77	27	24	M14	1/2	66,7	31,6	4	1096-11-42-G042
1.1/2"	42,8	31	103	89	30	24	M16	5/8	79,4	36,7	4	1096-11-42-G049
1.1/2"	48,6	38	103	89	30	24	M16	5/8	79,4	36,7	4	1096-11-49-G049
2"	48,6	38	135	123	35	31	M20	3/4	96,8	44,4	4	1096-11-49-G060
2"	61	50	135	123	35	31	M20	3/4	96,8	44,4	4	1096-11-60-G060



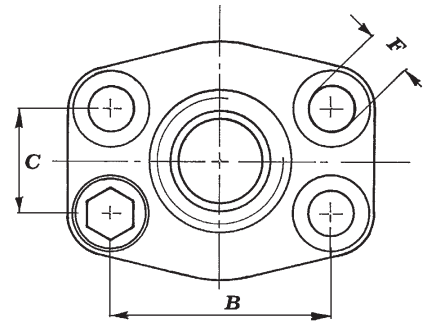
1096-12
CEL/CES
DIN 2353 24°
SAE 6000 PSI
Draadflens
Bride fileté
Threaded flange
Außengewindeflansch



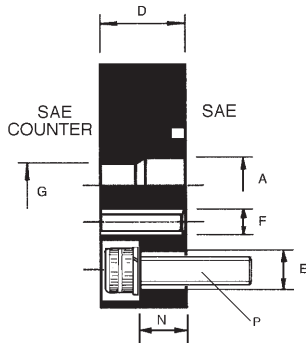
SAE	BAR	BAR DIN 2353	DIN 2353	A METR.	B	C	D	E	F	G	H	K		L	Fe/Zn/YP REF.
												METR.	UNC		
1/2"	420	630	12S	M20x1,5	12	8	40,5	18,3	9	47	16	M8	5/16	14	1096-12-12-G021
1/2"	420	630	14S	M22x1,5	14	10	40,5	18,3	9	47	16	M8	5/16	14	1096-12-14-G021
1/2"	420	400	16S	M24x1,5	16	12	40,5	18,3	9	47	16	M8	5/16	14	1096-12-16-G021
3/4"	420	400	16S	M24x1,5	16	12	50,8	23,8	11	52	18	M10	3/8	14	1096-12-16-G027
3/4"	420	400	20S	M30x2	20	16	50,8	23,8	11	52	18	M10	3/8	14	1096-12-20-G027
3/4"	420	160	22L	M30x2	22	18	50,8	23,8	11	52	18	M10	3/8	14	1096-12-22-G027
1"	420	400	20S	M30x2	20	16	57,1	27,8	13	60	21	M12	7/16	14	1096-12-20-G033
1"	420	400	25S	M36x2	25	20	57,1	27,8	13	60	21	M12	7/16	14	1096-12-25-G033
1"	420	160	28L	M36x2	28	23	57,1	27,8	13	60	21	M12	7/16	14	1096-12-28-G033
1.1/4"	420	400	25S	M36x2	25	20	66,7	31,6	15	68	24	M14	1/2	18	1096-12-25-G042
1.1/4"	420	400	30S	M42x2	30	25	66,7	31,6	15	68	24	M14	1/2	18	1096-12-30-G042
1.1/4"	420	160	35L	M45x2	35	30	66,7	31,6	15	68	24	M14	1/2	18	1096-12-35-G042
1.1/2"	420	400	30S	M42x2	30	25	79,4	36,7	17	72	27	M16	5/8	20	1096-12-30-G049
1.1/2"	420	315	38S	M52x2	38	32	79,4	36,7	17	72	27	M16	5/8	20	1096-12-38-G049
1.1/2"	420	160	42L	M52x2	42	36	79,4	36,7	17	72	27	M16	5/8	20	1096-12-42-G049



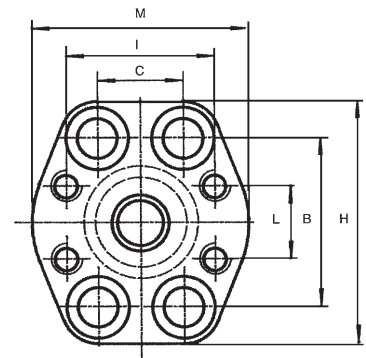
1096-17
UN(F) - JIC 37°
SAE 6000 PSI
Draadflens
Bride filetée
Threaded flange
Außengewindeflansch



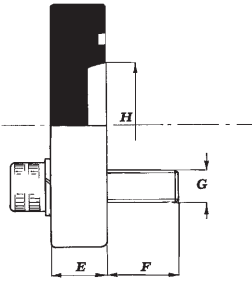
SAE	BAR	A UN(F)	B	C	D	E	F	G		L	Fe/Zn/YP REF.
								METR.	UNC		
1/2"	420	3/4-16UNF	40,5	18,3	42	16	9	M8	5/16	14	1096-17-08-G021
1/2"	420	7/8-14UNF	40,5	18,3	45	16	9	M8	5/16	14	1096-17-10-G021
1/2"	420	1.1/16-12UN	40,5	18,3	47	16	9	M8	5/16	14	1096-17-12-G021
3/4"	420	7/8-14UNF	50,8	23,8	49	18	11	M10	3/8	15	1096-17-10-G027
3/4"	420	1.1/16-12UN	50,8	23,8	51	18	11	M10	3/8	15	1096-17-12-G027
3/4"	420	1.5/16-12UN	50,8	23,8	52	18	11	M10	3/8	15	1096-17-16-G027
1"	420	1.1/16-12UN	57,1	27,8	58	21	13	M12	7/16	18	1096-17-12-G033
1"	420	1.5/16-12UN	57,1	27,8	59	21	13	M12	7/16	18	1096-17-16-G033
1"	420	1.5/8-12UN	57,1	27,8	61	21	13	M12	7/16	18	1096-17-20-G033
1.1/4"	420	1.5/16-12UN	66,7	31,6	64	24	15	M14	1/2	20	1096-17-16-G042
1.1/4"	420	1.5/8-12UN	66,7	31,6	66	24	15	M14	1/2	20	1096-17-20-G042
1.1/4"	420	1.7/8-12UN	66,7	31,6	69	24	15	M14	1/2	20	1096-17-24-G042
1.1/2"	420	1.5/8-12UN	79,4	36,7	70	27	17	M16	5/8	20	1096-17-20-G049
1.1/2"	420	1.7/8-12UN	79,4	36,7	73	27	17	M16	5/8	20	1096-17-24-G049



1096-21
SAE 6000 PSI - COUNTER
SAE 6000 PSI
Tussen-/reduceerflens
Bride intermédiaire/reduit
Intermediaire/reduction flange
Zwischen-/Reduzierflansch



SAE	SAE COUNTER	BAR	A	B	C	D	E	F	G	H	I	L	M	N	P	Fe/SM REF.
3/4"	3/4"	420	19	50,8	23,8	28	11	M10	19	71	50,8	23,8	71	17	M10x35	1096-21-G027
1"	1"	420	25	57,1	27,8	36	13	M12	25	80	57,1	27,8	80	23	M12x45	1096-21-G033
1"	3/4"	420	25	57,1	27,8	30	13	M10	19	80	50,8	23,8	71	19	M12x35	1096-21-G033-027
1.1/4"	1.1/4"	420	30	66,7	31,6	35	15	M14	30	94	66,7	31,6	94	20	M14x40	1096-21-G042
1.1/4"	1"	420	30	66,7	31,6	25	15	M12	25	94	57,1	27,8	80	22	M14x40	1096-21-G042-033
1.1/2"	1.1/2"	420	38	79,4	36,7	50	17	M16	38	106	79,4	36,7	106	33	M16x50	1096-21-G049
1.1/2"	1.1/4"	420	38	79,4	36,7	50	17	M14	30	106	66,7	31,6	94	35	M16x50	1096-21-G049-042
2"	2"	420	50	96,8	44,4	50	21	M20	50	135	96,8	44,4	135	29	M20x50	1096-21-G060
2"	1.1/2"	420	50	96,8	44,4	50	21	M16	38	135	79,4	36,7	106	33	M20x50	1096-21-G060-049
2.1/2"	2"	420	63	123,8	58,7	55	25	M20	50	166	96,8	44,4	150	34	M24x60	1096-21-G076-060
3"	2"	420	73	152,4	71,4	55	31	M20	50	208	96,8	44,4	178	34	M30x90	1096-21-G090-060

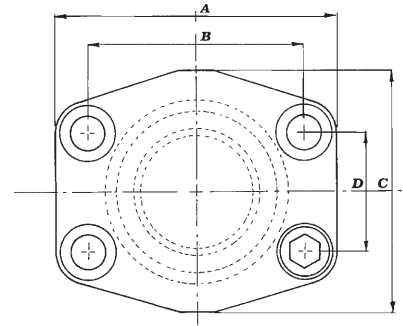


1096-22

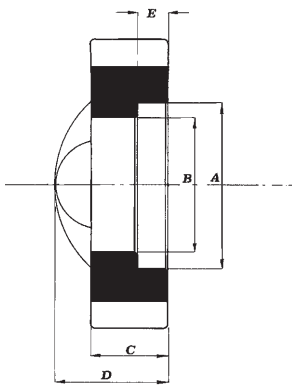
BLIND

SAE 6000 PSI

Afblindflens
Bride d'obturation
Blind flange
Verschlussflansch



SAE	BAR	A	B	C	D	E	F	G		H	Fe/SM REF.
								METR.	UNC		
1/2"	420	57	40,5	47	18,3	16	14	M8	5/16	10	1096-22-G021
3/4"	420	71	50,8	53	23,8	19	16	M10	3/8	15	1096-22-G027
1"	420	80	57,1	66	27,8	24	18	M12	7/16	22	1096-22-G033
1.1/4"	420	94	66,7	77	31,6	27	24	M14	1/2	30	1096-22-G042
1.1/2"	420	103	79,4	89	36,7	30	24	M16	5/8	35	1096-22-G049
2"	420	135	96,8	123	44,4	35	31	M20	3/4	48	1096-22-G060
2.1/2"	420	175	123,8	150	58,7	45	40	M24	-	55	1096-22-G076
3"	420	208	152,4	178	71,4	55	45	M30	-	65	1096-22-G090

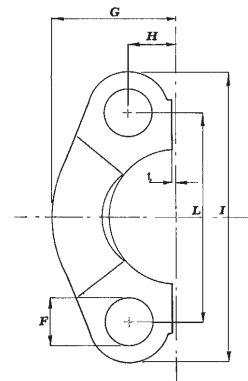


1096-23

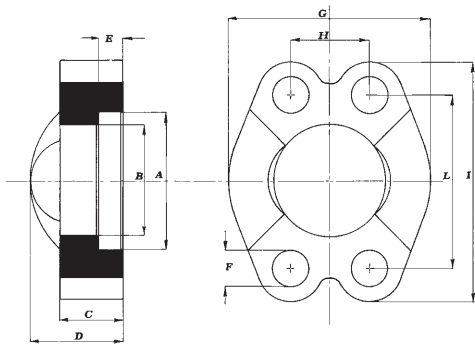
SPLIT

SAE J518-6000 PSI

Halve flens
Demi bride
Split flange
Flanschhälfte



SAE	BAR SAE	A	B	C	D	E	F	G	H	I	L	Fe 52.3/Zn/YP REF.	AISI 316 REF.
1/2"	420	32,5	24,6	16	22	7,2	8,7	24	9,1	57	40,5	1096-23-G021	3096-23-G021
3/4"	420	42	32,5	19	28	8,3	10,5	30	11,9	72	50,8	1096-23-G027	3096-23-G027
1"	420	48,4	38,9	24	32	9	13	35	13,9	81	57,2	1096-23-G033	3096-23-G033
1.1/4"	420	54,8	44,5	27	38	9,8	15	39	15,9	96	66,7	1096-23-G042	3096-23-G042
1.1/2"	420	64,3	51,6	30	42	12,1	17	48	18,3	113	79,4	1096-23-G049	3096-23-G049
2"	420	80,2	67,6	37	52	12,1	21	57	22,2	134	96,8	1096-23-G060	3096-23-G060
2.1/2"	420	108,5	89,5	45	70	20	25	75	29,3	175	123,8	1096-23-G076	3096-23-G076
3"	420	132,5	114,5	55	90	25	32	89	35,7	210	152,4	1096-23-G090	3096-23-G090

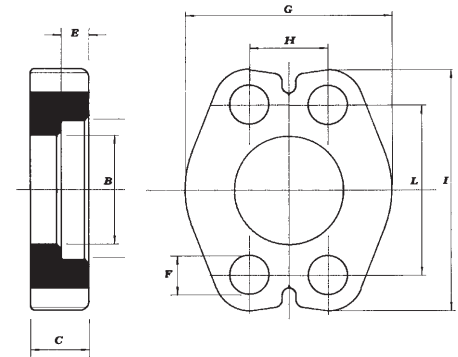


1096-24

1096-24 1096-24-6 COMBI

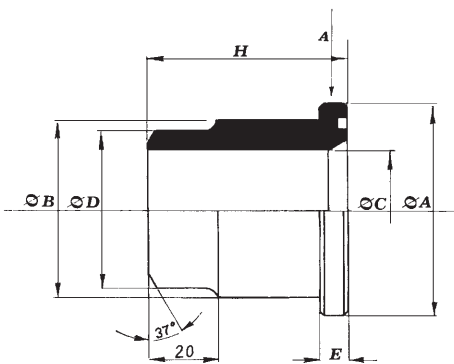
SAE 6000 PSI

Volle flens
Bride entière "Monobloc"
Undivided flange
Vollflansch



1096-24-6

SAE	BAR SAE	A	B	C	D	E	F	G	H	I	L	Fe 52.3/Zn/YP REF.	C 60 REF.
1/2"	420	32,5	24,6	16	22	7,2	8,8	48	18,2	57	40,5	1096-24-G021	1096-24-6-G021
3/4"	420	42	32,5	19	28	8,3	10,5	60	23,8	72	50,8	1096-24-G027	1096-24-6-G027
1"	420	48,4	38,9	24	32	9	13	70	27,8	81	57,2	1096-24-G033	1096-24-6-G033
1.1/4"	420	54,8	44,5	27	38	9,8	15	78	31,8	96	66,7	1096-24-G042	1096-24-6-G042
1.1/2"	420	64,3	51,6	30	42	12,1	17	96	36,6	113	79,4	1096-24-G049	1096-24-6-G049
2"	420	80,2	67,6	37	52	12,1	21	114	44,4	134	96,8	1096-24-G060	1096-24-6-G060
2.1/2"	420	108,5	89,5	45	70	20	25	150	58,7	175	123,8	1096-24-G076	
3"	420	132,5	114,5	55	90	25	32	178	71,4	210	152,4	1096-24-G090	



1096-26

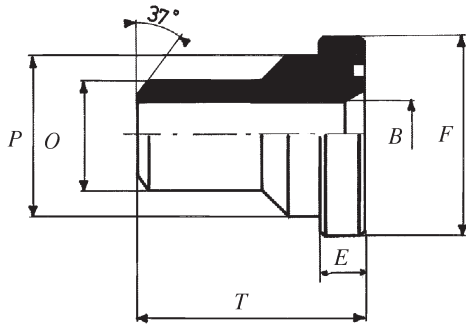
BUTTWELD

SAE J518-6000 PSI

Adapterlasflens
Collet à souder
Adapter welding flange
Flansch-Schulter zum Vorschw

SAE	BAR	A	B	C	D	E	H	Fe REF.
1/2"	420	31,8	24	12	16	7,7	34	1096-26-G021
3/4"	420	41,3	32	18	25	8,7	38	1096-26-G027
1"	420	47,6	38,5	22	30	9,5	40	1096-26-G033
1.1/4"	420	54	44	27	38	10,3	45	1096-26-G042
1.1/2"	420	63,5	51	32	45	12,5	50	1096-26-G049
2"	420	79,4	67	45	60	12,5	58	1096-26-G060
2.1/2"	420	107,8	88,9	45	74	20,6	90	1096-26-G076
3"	420	131,7	113,8	58	90	25,6	110	1096-26-G090

2



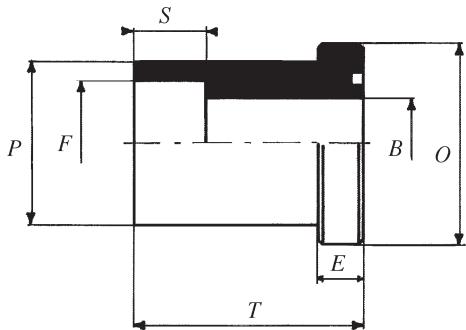
1096-28

BUTTWELD

SAE J518-6000 PSI

Reduceer adapterlasflens
Collet réduit à souder
Reducing adapter welding flange
Reduzieradapter zum Vorschw.

SAE	BAR	B	E	F	P	O	T	Fe REF.
1/2"	420	10	7,7	31,8	24	18	45	1096-28-G021
3/4"	420	13	8,7	41,3	32	22	50	1096-28-G027
1"	420	18	9,5	47,6	38	28	55	1096-28-G033
1.1/4"	420	22	10,3	54	44	35	60	1096-28-G042
1.1/2"	420	29	12,5	63,5	51	44	65	1096-28-G049
2"	420	35	12,5	79,4	67	51	70	1096-28-G060



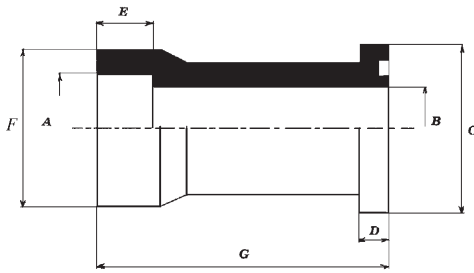
1096-29

SOCKETWELD

SAE J518-6000 PSI

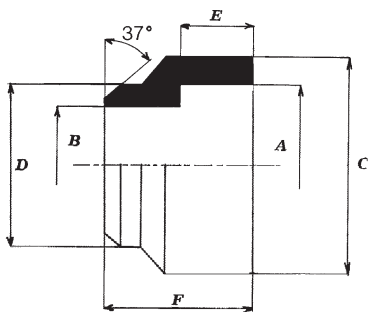
Adapter inlasflens
Collet adapteur à souder
Adapter weld-in flange
Einschweiß Adapterflansch

SAE	BAR	B	O	E	F	P	S	T	Fe REF.
1/2"	420	11	31,8	7,7	16,5	24	13	35	1096-29-16-G021
1/2"	420	11	31,8	7,7	17,6	24	13	35	1096-29-18-G021
3/4"	420	15	41,3	8,7	20,5	31,8	13	40	1096-29-20-G027
3/4"	420	15	41,3	8,7	21,7	31,8	13	40	1096-29-22-G027
1"	420	20	47,6	9,5	25,5	38	13	45	1096-29-25-G033
1"	420	20	47,6	9,5	27,3	38	13	45	1096-29-28-G033
1.1/4"	420	24	54	10,3	30,5	44	16	50	1096-29-30-G042
1.1/4"	420	24	54	10,3	32,5	44	16	50	1096-29-32-G042
1.1/4"	420	24	54	10,3	34,2	44	16	50	1096-29-34-G042
1.1/2"	420	31	63,5	12,5	38,5	51	18	55	1096-29-38-G049
1.1/2"	420	31	63,5	12,5	40,7	51	18	55	1096-29-41-G049
1.1/2"	420	31	63,5	12,5	42,8	51	18	55	1096-29-43-G049
2"	420	38	79,4	12,5	49	67	20	65	1096-29-49-G060
2"	420	38	79,4	12,5	50,7	67	20	65	1096-29-51-G060



1096-30
SOCKETWELD LONG
SAE J518-6000 PSI
 Lange inlasadapterflens
 Collet long à souder
 Long adapter welding flange
 Lange Einschweißflansch

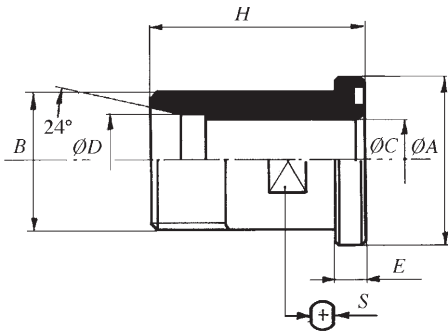
SAE	BAR	A	B	C	D	E	F	G	Fe REF.
1/2"	420	20,5	15	31,8	7,7	13	32	60	1096-30-20-G021
1/2"	420	21,7	15	31,8	7,7	13	32	60	1096-30-21-G021
1/2"	420	22,5	15	31,8	7,7	13	32	60	1096-30-22-G021
3/4"	420	25,7	19	41,3	8,7	13	40	68	1096-30-26-G027
3/4"	420	27,3	19	41,3	8,7	13	40	68	1096-30-28-G027
3/4"	420	28,7	19	41,3	8,7	13	40	68	1096-30-29-G027
1"	420	34	25	47,6	9,5	16	48	75	1096-30-34-G033
1"	420	35,5	25	47,6	9,5	16	48	75	1096-30-35-G033



1096-31
SOCKET/BUTT WELD
SAE 6000 PSI
 Lasverloopadapter
 Adapteur reduit à souder
 Welding reducing adapter
 Schweißreduzierstück

SAE	BAR	A	B	C	D	E	F	Fe REF.
1/2"	420	20,5	15	32	23	13	35	1096-31-20-G021
1/2"	420	21,7	15	32	23	13	35	1096-31-21-G021
1/2"	420	22,5	15	32	23	13	35	1096-31-22-G021
3/4"	420	25,7	19	40	32	13	40	1096-31-26-G027
3/4"	420	27,3	19	40	32	13	40	1096-31-27-G027
3/4"	420	28,7	19	40	32	13	40	1096-31-29-G027
1"	420	34	25	48	38	16	45	1096-31-34-G033
1"	420	35,5	25	48	38	16	45	1096-31-35-G033
2"	420	61	43	79	62	22	55	1096-31-61-G060
2"	420	65,8	43	79	62	22	55	1096-31-66-G060

2



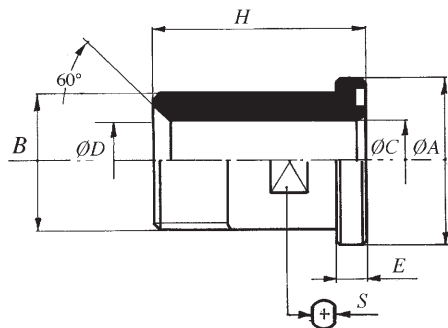
1096-36

CEL/CES
DIN 2353 24°

SAE J518-6000 PSI

Adapterdraadflens
Collet fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde

SAE	BAR	BAR DIN 2353	DIN 2353	A	B METR.	C	D	E	H	S	Fe/Zn/YP REF.
1/2"	420	630	12S	31,8	M20x1,5	8	12	7,7	50	19	1096-36-12-G021
1/2"	420	630	14S	31,8	M22x1,5	10	14	7,7	50	19	1096-36-14-G021
1/2"	420	400	16S	31,8	M24x1,5	12	16	7,7	50	19	1096-36-16-G021
3/4"	420	400	16S	41,3	M24x1,5	12	16	8,7	65	30	1096-36-16-G027
3/4"	420	400	20S	41,3	M30x2	16	20	8,7	65	30	1096-36-20-G027
3/4"	420	160	22L	41,3	M30x2	18	22	8,7	65	30	1096-36-22-G027
1"	420	400	20S	47,6	M30x2	16	20	9,5	75	36	1096-36-20-G033
1"	420	400	25S	47,6	M36x2	20	25	9,5	75	36	1096-36-25-G033
1"	420	160	28L	47,6	M36x2	23	28	9,5	75	36	1096-36-28-G033
1.1/4"	420	400	25S	54	M36x2	20	25	10,3	80	41	1096-36-25-G042
1.1/4"	420	400	30S	54	M42x2	25	30	10,3	80	41	1096-36-30-G042
1.1/4"	420	160	35L	54	M45x2	30	35	10,3	80	41	1096-36-35-G042
1.1/2"	420	400	30S	63,5	M42x2	25	30	12,5	90	46	1096-36-30-G049
1.1/2"	420	315	38S	63,5	M52x2	32	38	12,5	90	46	1096-36-38-G049
1.1/2"	420	160	42L	63,5	M52x2	36	42	12,5	90	46	1096-36-42-G049



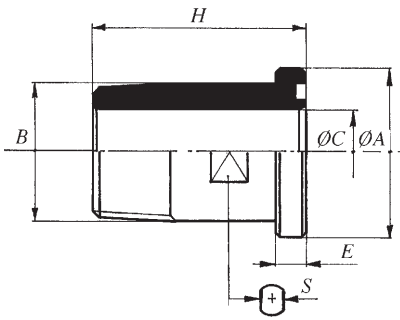
1096-38

BSPB
60° → ← Globeseal

SAE J518-6000 PSI

Adapterdraadflens
Collet fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde

SAE	BAR	A	B BSPB	C	E	H	S	Fe/Zn/YP REF.
1/2"	420	31,8	G1/2	12	7,7	50	19	1096-38-08-G021
1/2"	420	31,8	G3/8	10	7,7	50	19	1096-38-06-G021
3/4"	420	41,3	G3/4	17	8,7	60	26	1096-38-12-G027
3/4"	420	41,3	G1/2	12	8,7	60	26	1096-38-08-G027
1"	420	47,6	G1	22	9,5	70	32	1096-38-16-G033
1"	420	47,6	G3/4	17	9,5	70	32	1096-38-12-G033
1.1/4"	420	54	G1.1/4	27	10,3	75	36	1096-38-20-G042
1.1/4"	420	54	G1	22	10,3	75	36	1096-38-16-G042
1.1/2"	420	63,5	G1.1/2	32	12,5	80	46	1096-38-24-G049
1.1/2"	420	63,5	G1.1/4	27	12,5	80	46	1096-38-20-G049
2"	420	79,4	G2	40	12,5	90	55	1096-38-32-G060
2"	420	79,4	G1.1/2	32	12,5	90	55	1096-38-24-G060



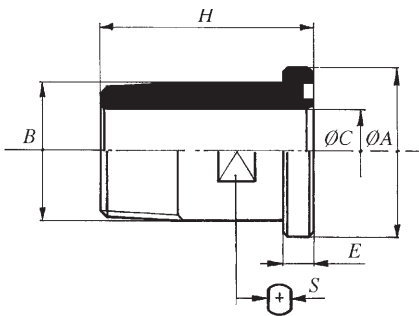
1096-39

BSPT
Threadseal

SAE J518-6000 PSI

Adapterdraadflens
Collet fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde

SAE	BAR	A	B BSPP	C	E	H	S	Fe/Zn/YP REF.
1/2"	420	31,8	G1/2	12	7,7	50	19	1096-39-08-G021
1/2"	420	31,8	G3/8	10	7,7	50	19	1096-39-06-G021
3/4"	420	41,3	G3/4	17	8,7	60	26	1096-39-12-G027
3/4"	420	41,3	G1/2	12	8,7	60	26	1096-39-08-G027
1"	420	47,6	G1	22	9,5	70	32	1096-39-16-G033
1"	420	47,6	G3/4	17	9,5	70	32	1096-39-12-G033
1.1/4"	420	54	G1.1/4	27	10,3	75	36	1096-39-20-G042
1.1/4"	420	54	G1	22	10,3	75	36	1096-39-16-G042
1.1/2"	420	63,5	G1.1/2	32	12,5	80	46	1096-39-24-G049
1.1/2"	420	63,5	G1.1/4	27	12,5	80	46	1096-39-20-G049
2"	420	79,4	G2	40	12,5	90	55	1096-39-32-G060
2"	420	79,4	G1.1/2	32	12,5	90	55	1096-39-24-G060



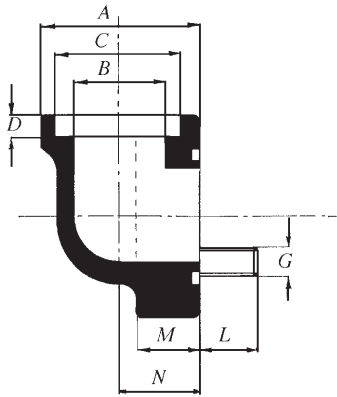
1096-40

NPTF
Threadseal

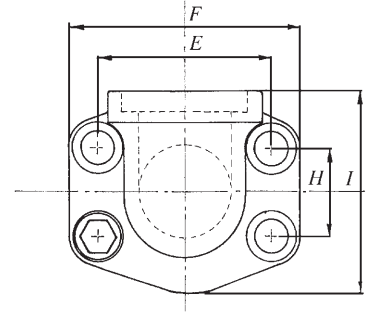
SAE J518-6000 PSI

Adapterdraadflens
Collet fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde

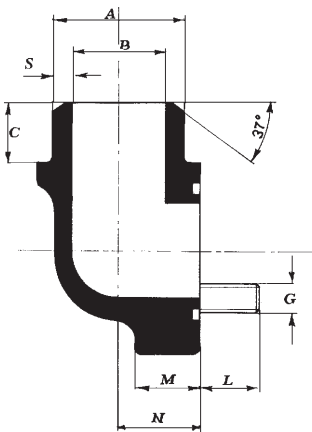
SAE	BAR	A	B BSPP	C	E	H	S	Fe/Zn/YP REF.
1/2"	420	31,8	G1/2	12	7,7	50	19	1096-40-08-G021
1/2"	420	31,8	G3/8	10	7,7	50	19	1096-40-06-G021
3/4"	420	41,3	G3/4	17	8,7	60	26	1096-40-12-G027
3/4"	420	41,3	G1/2	12	8,7	60	26	1096-40-08-G027
1"	420	47,6	G1	22	9,5	70	32	1096-40-16-G033
1"	420	47,6	G3/4	17	9,5	70	32	1096-40-12-G033
1.1/4"	420	54	G1.1/4	27	10,3	75	36	1096-40-20-G042
1.1/4"	420	54	G1	22	10,3	75	36	1096-40-16-G042
1.1/2"	420	63,5	G1.1/2	32	12,5	80	46	1096-40-24-G049
1.1/2"	420	63,5	G1.1/4	27	12,5	80	46	1096-40-20-G049
2"	420	79,4	G2	40	12,5	90	55	1096-40-32-G060
2"	420	79,4	G1.1/2	32	12,5	90	55	1096-40-24-G060



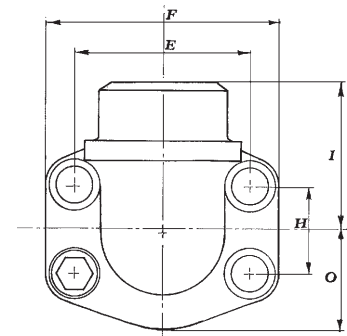
1096-50
SOCKETWELD (90°) (INCH)
SAE 6000 PSI
 Inlasflens
 Bride à souder
 Weld-in flange
 Einschweißflansch



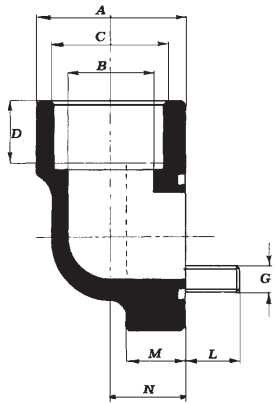
SAE	BAR	C		A	B	D	E	F	G		H	I	O	M	N	L	Fe/SM REF.
		INCH	MM						METR.	UNC							
1/2"	420	1/2	21,6	34	13	5	40,5	57	M8	5/16	18,3	28	23	17	18	13	1096-50-G021
3/4"	420	3/4	27,2	44,5	19	6	50,8	72	M10	3/8	23,8	28	27	19	28	15	1096-50-G027
1"	420	1	34,1	53,5	25	7	57,1	82	M12	7/16	27,8	34	34	24	30	19	1096-50-G033
1.1/4"	420	1.1/4	42,8	62,5	31	8	66,7	95	M14	1/2	31,6	43	39	25	36	21	1096-50-G042
1.1/2"	420	1.1/2	48,6	77	38	10	79,4	110	M16	5/8	36,7	50	44	26	41	25	1096-50-G049
2"	420	2	61	89	50	12	96,8	134	M20	3/4	44,4	65	58	35	45	32	1096-50-G060



1096-51
BUTTWELD (90°) (INCH)
SAE 6000 PSI
 Voorlasflens
 Bride à souder
 Buttweld flange
 Anschweißflansch



SAE	BAR	A		B	C	S	E	F	G		H	I	M	O	N	L	Fe/SM REF.
		INCH	MM						METR.	UNC							
1/2"	420	1/2	21,6	13	12	4,3	40,5	57	M8	5/16	18,3	40	17	23	18	13	1096-51-G021
3/4"	420	3/4	27,2	18	12	4,6	50,8	72	M10	3/8	23,8	50	20	27	28	15	1096-51-G027
1"	420	1	34,5	22	13	6,3	57,1	82	M12	7/16	27,8	57	24	34	26	19	1096-51-G033
1.1/4"	420	1.1/4	42,8	28	13	7,4	66,7	95	M14	1/2	31,6	66	25	39	36	21	1096-51-G042
1.1/2"	420	1.1/2	48,6	32	15	8,3	79,4	110	M16	5/8	36,7	65	26	44	41	25	1096-51-G049
2"	420	2	61	41	15	10	96,8	134	M20	3/4	44,4	75	35	58	45	32	1096-51-G060

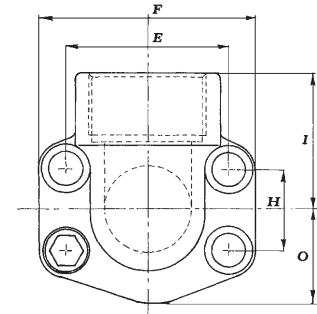


1096-52

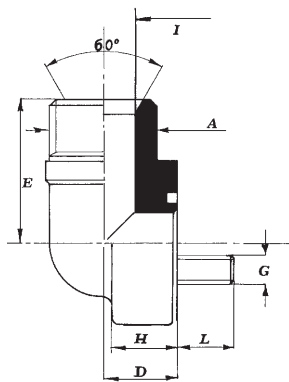
BSPP (90°)
Flatseal

SAE 6000 PSI

**Draadflens
Bride taraudée
Threaded flange
Einschraubflansch**



SAE	BAR	C BSPP	A	B	D	E	F	G		H	I	M	O	N	L	Fe/SM REF.
								METR.	UNC							
1/2"	420	G1/2	34	13	19	40,5	57	M8	5/16	18,3	36	17	23	18	13	1096-52-G021
3/4"	420	G3/4	44,5	19	22	50,8	72	M10	3/8	23,8	41	20	27	28	15	1096-52-G027
1"	420	G1	53,5	25	24	57,1	82	M12	7/16	27,8	50	24	34	30	19	1096-52-G033
1.1/4"	420	G1.1/4	62,5	31	25	66,7	95	M14	1/2	31,6	58	25	39	36	21	1096-52-G042
1.1/2"	420	G1.1/2	77	38	28	79,4	110	M16	5/8	36,7	65	26	44	41	25	1096-52-G049
2"	420	G2	87	50	34	96,8	134	M20	3/4	44,4	75	35	58	35	32	1096-52-G060

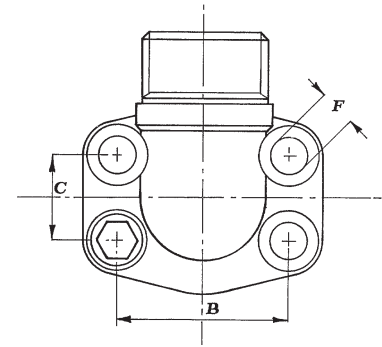


1096-53

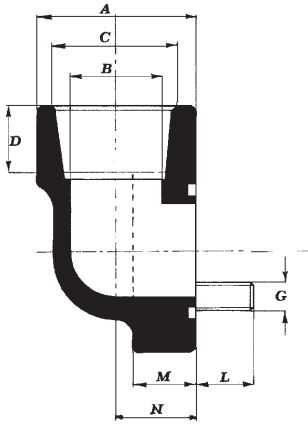
BSPP (90°)
60° → ← Globeseal

SAE 6000 PSI

**Draadflens
Bride filetée
Threaded flange
Gewindflansch**



SAE	BAR	A BSPP	B	C	D	E	F	G		H	I	L	Fe/Zn/YP REF.
								METR.	UNC				
1/2"	420	G3/8	40,5	18,2	17	37	9	M8	5/16	16	10	14	1096-53-06-G021
1/2"	420	G1/2	40,5	18,2	17	39	9	M8	5/16	16	12	14	1096-53-08-G021
1/2"	420	G3/4	40,5	18,2	20	40	9	M8	5/16	16	13	14	1096-53-12-G021
3/4"	420	G1/2	50,8	23,8	20	45	11	M10	3/8	19	12	14	1096-53-08-G027
3/4"	420	G3/4	50,8	23,8	20	48	11	M10	3/8	19	17	14	1096-53-12-G027
3/4"	420	G1	50,8	23,8	25	50	11	M10	3/8	19	19	14	1096-53-16-G027
1"	420	G3/4	57,1	27,8	25	52	13	M12	7/16	24	17	18	1096-53-12-G033
1"	420	G1	57,1	27,8	25	54	13	M12	7/16	24	22	18	1096-53-16-G033
1"	420	G1.1/4	57,1	27,8	31	55	13	M12	7/16	24	25	18	1096-53-20-G033
1.1/4"	420	G1	66,7	31,6	31	59	15	M14	1/2	25	22	18	1096-53-16-G042
1.1/4"	420	G1.1/4	66,7	31,6	31	59	15	M14	1/2	25	27	18	1096-53-20-G042
1.1/4"	420	G1.1/2	66,7	31,6	37	61	15	M14	1/2	25	31	18	1096-53-24-G042
1.1/2"	420	G1.1/4	79,4	36,7	37	64	17	M16	5/8	26	27	20	1096-53-20-G049
1.1/2"	420	G1.1/2	79,4	36,7	37	66	17	M16	5/8	26	32	20	1096-53-24-G049

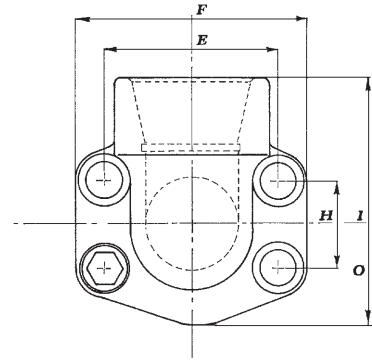


1096-56

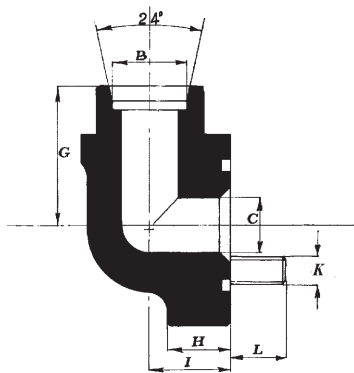
NPTF (90°)
Threadseal

SAE 6000 PSI

Draadflens
Bride taraudée
Threaded flange
Einschraubflansch



SAE	BAR	C NPTF	A	B	D	E	F	G		H	I	M	N	O	L	Fe/SM REF.
								METR.	UNC							
1/2"	420	1/2NPTF	34	13	19	40,5	57	M8	5/16	18,3	36	17	18	23	13	1096-56-G021
3/4"	420	3/4NPTF	44,5	19	22	50,8	72	M10	3/8	23,8	41	20	28	27	15	1096-56-G027
1"	420	1NPTF	53,5	25	24	57,1	82	M12	7/16	27,8	50	24	30	34	19	1096-56-G033
1.1/4"	420	1.1/4NPTF	62,5	31	25	66,7	95	M14	1/2	31,6	58	25	36	39	21	1096-56-G042
1.1/2"	420	1.1/2NPTF	77	38	28	79,4	110	M16	5/8	36,7	65	26	41	44	25	1096-56-G049
2"	420	2NPTF	87	50	34	96,8	134	M20	3/4	44,4	75	35	45	58	32	1096-56-G060

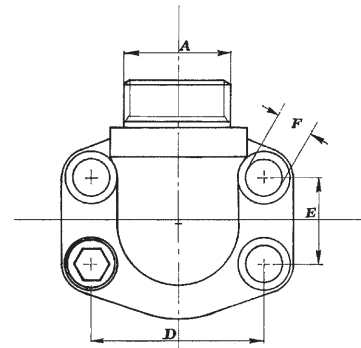


1096-61

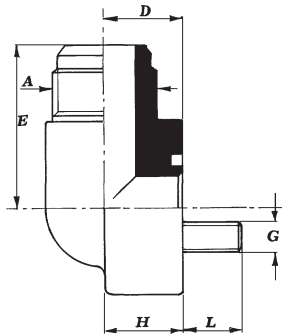
CEL/CES (90°)
DIN 2353 24°

SAE 6000 PSI

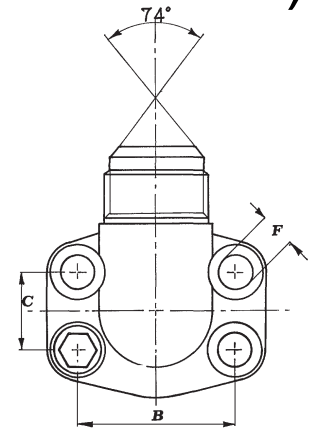
Draadflens
Bride filetée
Threaded flange
Gewindeflansch



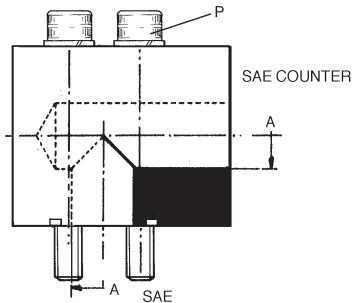
SAE	BAR	BAR DIN 2353	DIN 2353	A METR.	B	C	D	E	F	G	H	I	G		L	Fe/Zn/YP REF.
													METR.	UNC		
1/2"	420	630	12S	M20x1,5	12	8	40,5	18,3	9	36	16	20	M8	5/16	14	1096-61-12-G021
1/2"	420	630	14S	M22x1,5	14	10	40,5	18,3	9	36	16	20	M8	5/16	14	1096-61-14-G021
1/2"	420	400	16S	M24x1,5	16	12	40,5	18,3	9	36	16	20	M8	5/16	14	1096-61-16-G021
3/4"	420	400	16S	M24x1,5	16	12	50,8	23,8	11	41	19	26	M10	3/8	14	1096-61-16-G027
3/4"	420	400	20S	M30x2	20	20	50,8	23,8	11	41	19	26	M10	3/8	14	1096-61-20-G027
3/4"	420	160	22L	M30x2	22	23	50,8	23,8	11	41	19	26	M10	3/8	14	1096-61-22-G027
1"	420	400	20S	M30x2	20	16	57,1	27,8	13	50	24	30	M12	7/16	14	1096-61-20-G033
1"	420	400	25S	M36x2	25	20	57,1	27,8	13	50	24	30	M12	7/16	14	1096-61-25-G033
1"	420	160	28L	M36x2	28	23	57,1	27,8	13	50	24	30	M12	7/16	14	1096-61-28-G033
1.1/4"	420	400	25S	M36x2	25	20	66,7	31,6	15	58	25	36	M14	1/2	18	1096-61-25-G042
1.1/4"	420	400	30S	M42x2	30	25	66,7	31,6	15	58	25	36	M14	1/2	18	1096-61-30-G042
1.1/4"	420	160	35L	M45x2	35	30	66,7	31,6	15	58	25	36	M14	1/2	18	1096-61-35-G042
1.1/2"	420	400	30S	M42x2	30	25	79,4	36,7	17	65	26	41	M16	5/8	18	1096-61-30-G049
1.1/2"	420	315	38S	M52x2	38	32	79,4	36,7	17	65	26	41	M16	5/8	18	1096-61-38-G049
1.1/2"	420	160	42L	M52x2	42	36	79,4	36,7	17	65	26	41	M16	5/8	18	1096-61-42-G049



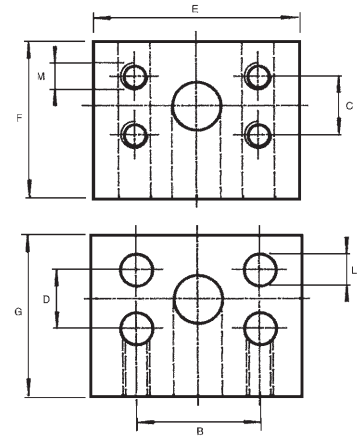
1096-66
 UN(F) - JIC 37° (90°)
 SAE 6000 PSI
 Draadflens
 Bride filetée
 Threaded flange
 Gewindeflansch



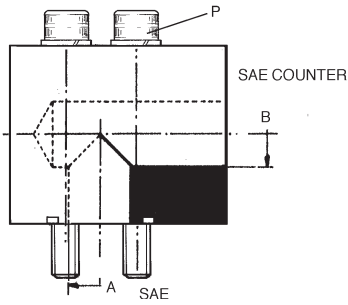
SAE	BAR	A UN(F)	B	C	D	E	F	G		H	L	Fe/Zn/YP REF.
								METR.	UNC			
1/2"	420	3/4-16UNF	40,5	18,3	17	40	9	M8	5/16	16	14	1096-66-08-G021
1/2"	420	7/8-14UNF	40,5	18,3	17	42	9	M8	5/16	16	14	1096-66-10-G021
1/2"	420	1.1/16-12UN	40,5	18,3	20	43	9	M8	5/16	16	14	1096-66-12-G021
3/4"	420	7/8-14UNF	50,8	23,8	20	49	11	M10	3/8	19	14	1096-66-10-G027
3/4"	420	1.1/16-12UN	50,8	23,8	20	51	11	M10	3/8	19	14	1096-66-12-G027
3/4"	420	1.5/16-12UN	50,8	23,8	25	52	11	M10	3/8	19	14	1096-66-16-G027
1"	420	1.1/16-12UN	57,1	27,8	25	55	13	M12	7/16	24	18	1096-66-12-G033
1"	420	1.5/16-12UN	57,1	27,8	25	56	13	M12	7/16	24	18	1096-66-16-G033
1"	420	1.5/8-12UN	57,1	27,8	31	58	13	M12	7/16	24	18	1096-66-20-G033
1.1/4"	420	1.5/16-12UN	66,7	31,6	31	56	15	M14	1/2	25	18	1096-66-16-G042
1.1/4"	420	1.5/8-12UN	66,7	31,6	31	63	15	M14	1/2	25	18	1096-66-20-G042
1.1/4"	420	1.7/8-12UN	66,7	31,6	37	63	15	M14	1/2	25	18	1096-66-24-G042
1.1/2"	420	1.5/8-12UN	79,4	36,7	37	67	17	M16	5/8	26	20	1096-66-20-G049
1.1/2"	420	1.7/8-12UN	79,4	36,7	37	70	17	M16	5/8	26	20	1096-66-24-G049



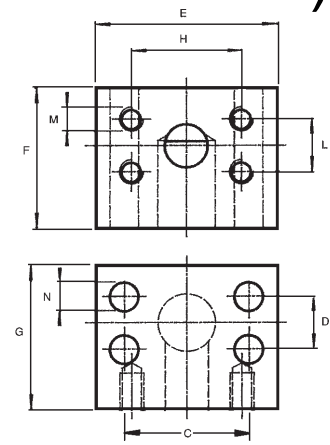
1096-70
 SAE 6000 PSI-COUNTER (90°)
 SAE 6000 PSI
 L-blokflens
 Bride bloc L
 L-block flange
 L-Blockflansch



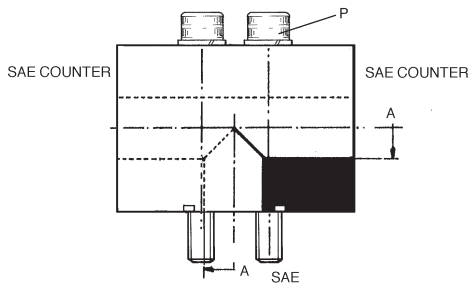
SAE	BAR	A	B	C	D	E	F	G	L	M	P	Fe/SM REF.
3/4"	420	19	50,8	23,8	23,8	70	55	60	11	M10	M10x70	1096-70-G027
1"	420	25	57,1	27,8	27,8	80	69	69	13	M12	M12x85	1096-70-G033
1.1/4"	420	30	66,7	31,6	31,6	94	75	75	15	M14	M14x95	1096-70-G042
1.1/2"	420	38	79,4	36,7	36,7	106	89	89	17	M16	M16x110	1096-70-G049
2"	420	50	96,8	44,4	44,4	135	116	116	21	M20	M20x140	1096-70-G060



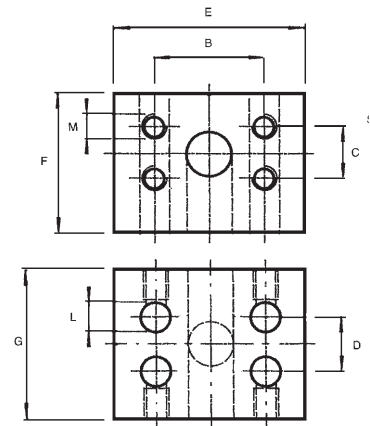
1096-71
SAE 6000 PSI-COUNTER (L)
SAE 6000 PSI
 Reducer L-blokflens
 Bride bloc L-reduit
 Reduction L-block flange
 L-Reduzierblockflansch



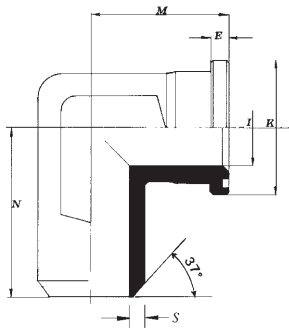
SAE	SAE COUNTER	BAR	A	B	C	D	E	F	G	H	L	M	N	P	Fe/SM REF.
1"	3/4"	420	25	19	57,1	27,8	80	69	69	50,8	23,8	M10	13	M12x85	1096-71-G033-027
1.1/4"	3/4"	420	30	19	66,7	31,6	94	75	75	50,8	23,8	M10	15	M14x95	1096-71-G042-027
1.1/4"	1"	420	30	25	66,7	31,6	94	75	75	57,1	27,8	M12	15	M14x95	1096-71-G042-033
1.1/2"	1.1/4"	420	38	30	79,4	36,7	106	89	89	66,7	31,6	M14	17	M16x110	1096-71-G049-042
2"	1.1/2"	420	50	38	96,8	44,4	135	116	116	79,4	36,7	M16	21	M20x140	1096-71-G060-049



1096-72
SAE 6000 PSI- 2x COUNTER (T)
SAE 6000 PSI
 T-blokflens
 Bride bloc T
 T-block flange
 T-Blockflansch



SAE COUNTER	BAR	A	B	C	D	E	F	G	L	M	P	Fe/SM REF.
3/4"	420	19	50,8	23,8	23,8	70	55	70	11	M10	M10x70	1096-72-G027
1"	420	25	57,1	27,8	27,8	80	69	80	13	M12	M12x85	1096-72-G033
1.1/4"	420	30	66,7	31,6	31,6	94	75	94	15	M14	M14x95	1096-72-G042
1.1/2"	420	38	79,4	36,7	36,7	106	89	106	17	M16	M16x110	1096-72-G049
2"	420	50	96,8	44,4	44,4	135	116	135	21	M20	M20x140	1096-72-G060

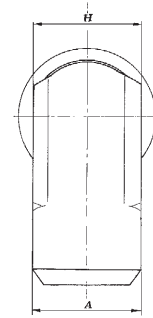


1096-76

BUTTWELD (90°)

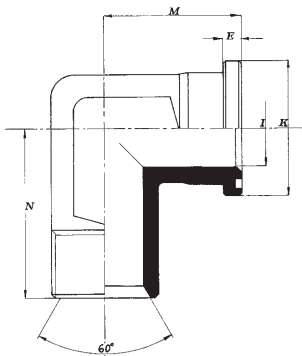
SAE J518-6000 PSI

**Adapterlasflens
Bride adapteur à souder
Adapter welding flange
Flansch-Schulter zum Vorschw.**



2

SAE	BAR	A	K	I	E	H	M	N	S	Fe REF.
1/2"	420	21,6	31,8	13	7,7	22	44	50	4,3	1096-76-G021
3/4"	420	27,2	41,3	18	8,7	27	53	64	4,6	1096-76-G027
1"	420	34,5	47,6	22	9,5	34	60	62	6,3	1096-76-G033
1.1/4"	420	42,8	54	28	10,3	42	70	72	7,4	1096-76-G042
1.1/2"	420	48,6	63,5	32	12,5	50	80	84	8,3	1096-76-G049



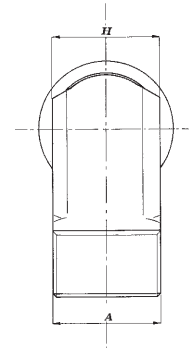
1096-78

BSPB (90°)

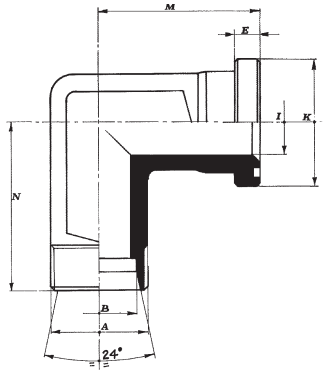
60° → ← Globeseal

SAE J518-6000 PSI

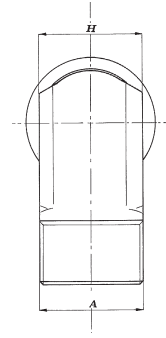
**Adapterdraadflens
Bride adapteur fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde**



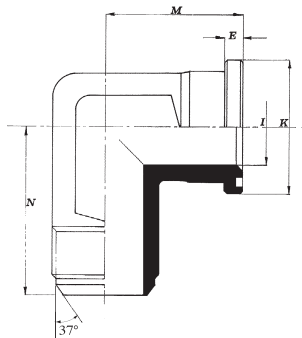
SAE	BAR	A BSPB	K	I	E	H	M	N	Fe/Zn/YP REF.
1/2"	420	G3/8	31,8	10	7,7	22	44	50	1096-78-06-G021
1/2"	420	G1/2	31,8	12	7,7	22	44	50	1096-78-08-G021
3/4"	420	G1/2	41,3	14	8,7	27	53	64	1096-78-08-G027
3/4"	420	G3/4	41,3	17	8,7	27	53	64	1096-78-12-G027
3/4"	420	G1	41,3	19	8,7	27	53	64	1096-78-16-G027
1"	420	G3/4	47,6	17	9,5	34	60	62	1096-78-12-G033
1"	420	G1	47,6	22	9,5	34	60	62	1096-78-16-G033
1"	420	G1.1/4	47,6	25	9,5	34	60	62	1096-78-20-G033
1.1/4"	420	G1	54	22	10,3	42	70	72	1096-78-16-G042
1.1/4"	420	G1.1/4	54	27	10,3	42	70	72	1096-78-20-G042
1.1/2"	420	G1.1/4	63,5	27	12,5	50	80	84	1096-78-20-G049
1.1/2"	420	G1.1/2	63,5	32	12,5	50	80	84	1096-78-24-G049



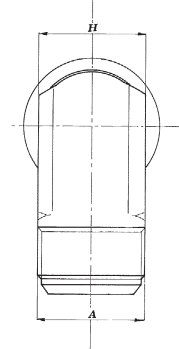
1096-86
CEL/CES (90°)
 DIN 2353 24°
SAE J518-6000 PSI
Adapterdraadflens
Bride adapteur fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde



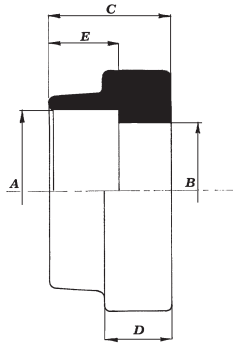
SAE	BAR	BAR DIN 2353	DIN 2353	A METR.	K	I	E	H	M	N	Fe/Zn/YP REF.
1/2"	420	630	12S	M20x1,5	31,8	8	7,7	22	44	50	1096-86-12-G021
1/2"	420	630	14S	M22x1,5	31,8	10	7,7	22	44	50	1096-86-14-G021
1/2"	420	400	16S	M24x1,5	31,8	12	7,7	22	44	50	1096-86-16-G021
3/4"	420	400	16S	M24x1,5	41,3	12	8,7	27	53	64	1096-86-16-G027
3/4"	420	400	20S	M30x2	41,3	16	8,7	27	53	64	1096-86-20-G027
3/4"	420	160	22L	M30x2	41,3	18	8,7	27	53	64	1096-86-22-G027
1"	420	400	20S	M30x2	47,6	16	9,5	34	60	62	1096-86-20-G033
1"	420	400	25S	M36x2	47,6	20	9,5	34	60	62	1096-86-25-G033
1"	420	160	28L	M36x2	47,6	23	9,5	34	60	62	1096-86-28-G033
1.1/4"	420	400	25S	M36x2	54	20	10,3	42	70	72	1096-86-25-G042
1.1/4"	420	400	30S	M42x2	54	25	10,3	42	70	72	1096-86-30-G042
1.1/4"	420	160	35L	M45x2	54	30	10,3	42	70	72	1096-86-35-G042
1.1/2"	420	400	30S	M42x2	63,5	25	12,5	50	80	84	1096-86-30-G049
1.1/2"	420	315	38S	M52x2	63,5	32	12,5	50	80	84	1096-86-38-G049
1.1/2"	420	160	42L	M52x2	63,5	36	12,5	50	80	84	1096-86-42-G049



1096-91
UN(F) - JIC 37° (90°)
SAE J518-6000 PSI
Adapterdraadflens
Bride adapteur fileté
Adapter threaded flange
Flansch-Schulter mit Gewinde



SAE	BAR	A UN(F)	K	I	E	H	M	N	Fe/Zn/YP REF.
1/2"	420	3/4-16UNF	31,8	12	7,7	22	44	50	1096-91-08-G021
1/2"	420	7/8-14UNF	31,8	12	7,7	22	44	50	1096-91-10-G021
3/4"	420	7/8-14UNF	41,3	18	8,7	27	53	64	1096-91-10-G027
3/4"	420	1.1/16-12UN	41,3	18	8,7	27	53	64	1096-91-12-G027
3/4"	420	1.5/16-12UN	41,3	18	8,7	27	53	64	1096-91-16-G027
1"	420	1.1/16-12UN	47,6	22	9,5	34	60	62	1096-91-12-G033
1"	420	1.5/16-12UN	47,6	22	9,5	34	60	62	1096-91-16-G033
1"	420	1.5/8-12UN	47,6	22	9,5	34	60	62	1096-91-20-G033
1.1/4"	420	1.5/16-12UN	54	27	10,3	42	70	72	1096-91-16-G042
1.1/4"	420	1.5/8-12UN	54	27	10,3	42	70	72	1096-91-20-G042
1.1/2"	420	1.5/8-12UN	63,5	32	12,5	50	80	87	1096-91-20-G049
1.1/2"	420	1.7/8-12UN	63,5	32	12,5	50	80	87	1096-91-24-G049

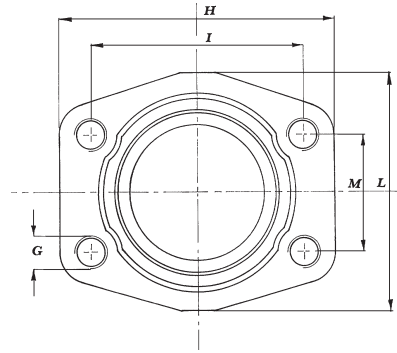


1097-01

SOCKETWELD (INCH)

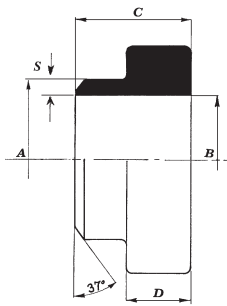
SAE 6000 PSI-COUNTER

Contra inlasflens
Contre bride à souder
Weld-in counter flange
Einschweiß Gegenflansch



SAE	BAR	A		B	C	D	E	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	420	3/8	17,5	13	36	16	18	M8	5/16	57	40,5	47	18,3	1097-01-G017
1/2"	420	1/2	21,6	13	36	16	18	M8	5/16	57	40,5	47	18,3	1097-01-G021
3/4"	420	3/4	27,2	19	36	19	20	M10	3/8	71	50,8	53	23,8	1097-01-G027
1"	420	1	34,1	25	44	24	22	M12	7/16	80	57,1	66	27,8	1097-01-G033
1.1/4"	420	1.1/4	42,8	31	44	27	22	M14	1/2	94	66,7	77	31,6	1097-01-G042
1.1/2"	420	1.1/2	48,6	38	51	30	24	M16	5/8	106	79,4	89	36,7	1097-01-G049
2"	420	2	61	50	70	37	25	M20	3/4	135	96,8	116	44,4	1097-01-G060
2.1/2"	420	2.1/2	76,6	63	75	45	28	M24	-	166	123,8	150	58,7	1097-01-G076
3"	420	3	90,5	73	90	55	30	M30	-	208	152,4	178	71,4	1097-01-G090

* standaard METR. / standard METR. / standard METR. / standard METR.

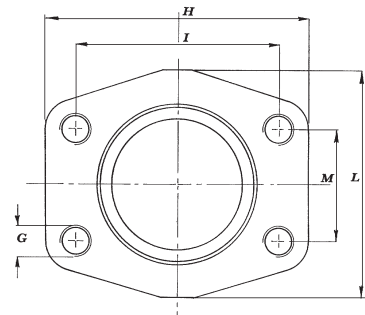


1097-02

BUTTWELD (INCH)

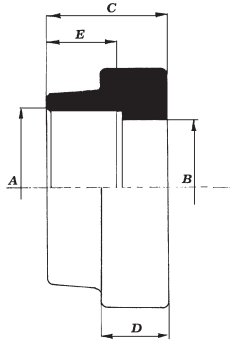
SAE 6000 PSI-COUNTER

Contra voorlasflens
Contre bride à souder
Weld-on counter flange
Anschweiß Gegenflansch



SAE	BAR	A		B	C	D	S	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	420	3/8	17,5	10	36	16	3,7	M8	5/16	57	40,5	47	18,3	1097-02-G017
1/2"	420	1/2	21,6	13	36	16	4,3	M8	5/16	57	40,5	47	18,3	1097-02-G021
3/4"	420	3/4	27,2	18	36	19	4,6	M10	3/8	71	50,8	53	23,8	1097-02-G027
1"	420	1	34,5	22	44	24	6,3	M12	7/16	80	57,1	66	27,8	1097-02-G033
1.1/4"	420	1.1/4	42,8	28	44	27	7,4	M14	1/2	94	66,7	77	31,6	1097-02-G042
1.1/2"	420	1.1/2	48,6	32	51	30	8,3	M16	5/8	106	79,4	89	36,7	1097-02-G049
2"	420	2	61	41	70	37	10	M20	3/4	135	96,8	116	44,4	1097-02-G060
2.1/2"	420	2.1/2	76,6	50	75	45	13	M24	-	166	123,8	150	58,7	1097-02-G076
3"	420	3	90	58	90	55	16	M30	-	208	152,4	178	71,4	1097-02-G090

* standaard METR. / standard METR. / standard METR. / standard METR.

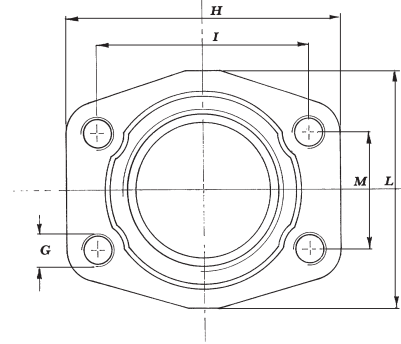


1097-03

BSPP
Flatseal

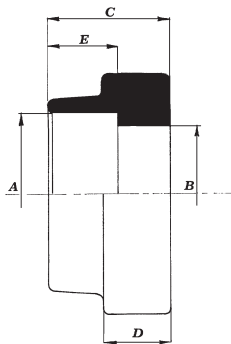
SAE 6000 PSI-COUNTER

Contra draadflens
Contre bride taraudée
Threaded counter flange
Gewinde Gegenflansch



SAE	BAR	A BSPP	B	C	D	E	G*		H	I	L	M	Fe/SM REF.
							METR.	UNC					
1/2"	420	G3/8	13	36	16	19	M8	5/16	57	40,5	47	18,3	1097-03-G017
1/2"	420	G1/2	13	36	16	19	M8	5/16	57	40,5	47	18,3	1097-03-G021
3/4"	420	G3/4	19	36	19	22	M10	3/8	71	50,8	53	23,8	1097-03-G027
1"	420	G1	25	44	24	24	M12	7/16	80	57,1	69	27,8	1097-03-G033
1.1/4"	420	G1.1/4	31	44	27	25	M14	1/2	94	66,7	77	31,6	1097-03-G042
1.1/2"	420	G1.1/2	38	51	30	28	M16	5/8	106	79,4	89	36,7	1097-03-G049
2"	420	G2	50	70	37	33	M20	3/4	135	96,8	116	44,4	1097-03-G060
2.1/2"	420	G2.1/2	63	75	45	35	M24	-	166	123,8	150	58,7	1097-03-G076
3"	420	G3	73	90	55	40	M30	-	208	152,4	178	71,4	1097-03-G090

* standaard METR. / standard METR. / standard METR. / standard METR.

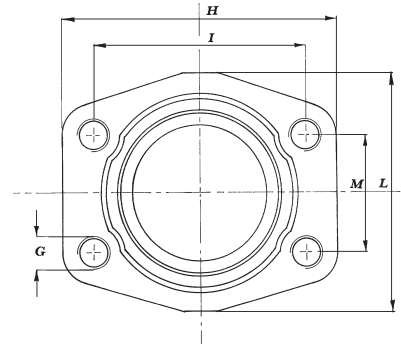


1097-10

SOCKETWELD (METR.)

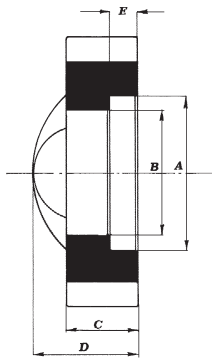
SAE 6000 PSI-COUNTER

Contra inlasflens
Contre bride à souder
Weld-in counter flange
Einschweiß Gegenflansch



SAE	BAR	A		B	C	D	E	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	420			13	36	16	18	M8	5/16	57	40,5	47	18,3	☐
1/2"	420		20,3	14	36	16	18	M8	5/16	57	40,5	47	18,3	1097-10-20-G021
3/4"	420		25,3	17	36	19	20	M10	3/8	71	50,8	53	23,8	1097-10-25-G027
1"	420		30,3	20	44	24	22	M12	7/16	80	57,1	66	27,8	1097-10-30-G033
1.1/4"	420		38,3	28	44	27	22	M14	1/2	94	66,7	77	31,6	1097-10-38-G042
1.1/2"	420		50,3	34	51	30	24	M16	5/8	106	79,4	89	36,7	1097-10-50-G049
2"	420		65,3	49	70	37	25	M20	3/4	135	96,8	116	44,4	1097-10-65-G060
2.1/2"	420			63	75	45	28	M24	-	166	123,8	150	58,7	☐
3"	420			73	90	55	30	M30	-	208	152,4	178	71,4	☐

* standaard METR. / standard METR. / standard METR. / standard METR.

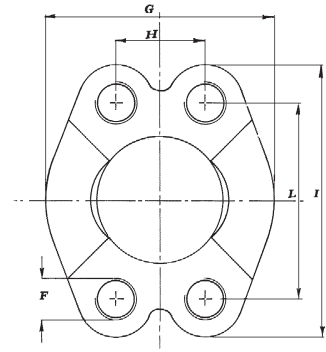


1097-24

COMBI

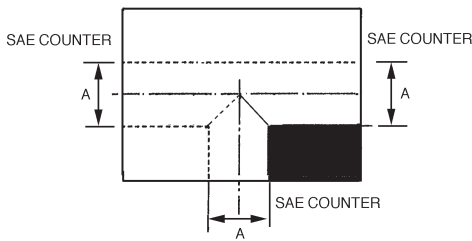
SAE 6000 PSI-COUNTER

Volle contra flens
Contre bride entière
Undivided split counter flange
Gegen Vollflansch



SAE	BAR SAE	A	B	C	D	E	F*	G	H	I	L	Fe 52.3/Zn/YP REF.
1/2"	420	32,5	24,6	16	22	7,2	M8	48	18,2	57	40,5	1097-24-G021
3/4"	420	42	32,5	19	28	8,3	M10	60	23,8	72	50,8	1097-24-G027
1"	420	48,4	38,9	24	32	9	M12	70	27,8	81	57,2	1097-24-G033
1.1/4"	420	54,8	44,5	27	38	9,8	M14	78	31,8	96	66,7	1097-24-G042
1.1/2"	420	64,3	51,6	30	42	12,1	M16	96	36,6	113	79,4	1097-24-G049
2"	420	80,2	67,6	37	52	12,1	M20	114	44,4	134	96,8	1097-24-G060
2.1/2"	420	108,5	89,5	45	70	20	M24	150	58,7	175	123,8	1097-24-G076
3"	420	132,5	114,5	55	90	25	M30	178	71,4	210	152,4	1097-24-G090

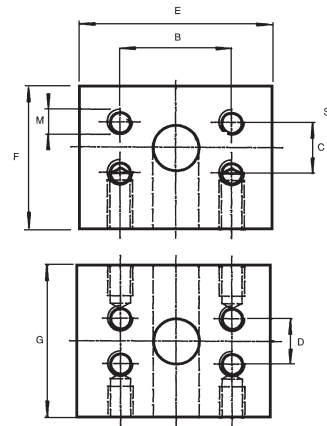
* standaard METR. / standard METR. / standard METR. / standard METR.



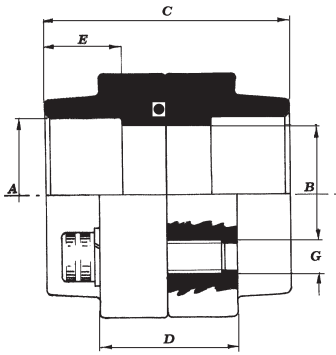
1097-72

SAE 6000 PSI-COUNTER

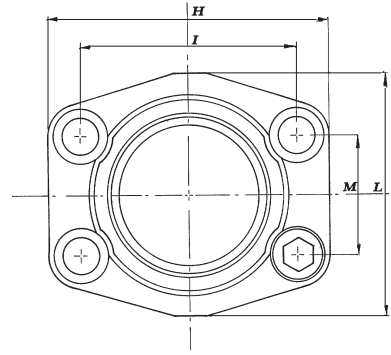
T-Contra blokflens
Contre bride bloc T
T-block counter flange
T-Gegen Blockflansch



SAE COUNTER	BAR	A	B	C	D	E	F	G	M	Fe/SM REF.
3/4"	420	19	50,8	23,8	23,8	70	55	70	M10	1097-72-G027
1"	420	25	57,1	27,8	27,8	80	69	80	M12	1097-72-G033
1.1/4"	420	30	66,7	31,6	31,6	94	75	94	M14	1097-72-G042
1.1/2"	420	38	79,4	36,7	36,7	106	89	106	M16	1097-72-G049
2"	420	50	96,8	44,4	44,4	135	116	135	M20	1097-72-G060



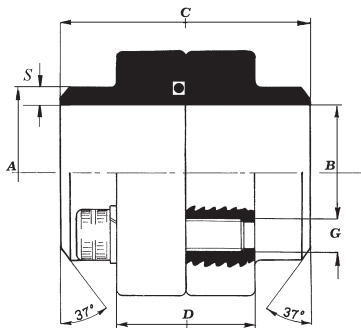
1098-01
SOCKETWELD (INCH)
SAE 6000 PSI
Inlaskoppelflens
Bride de liaison à souder
Double weld-in flange
Doppeleinschweißflansch



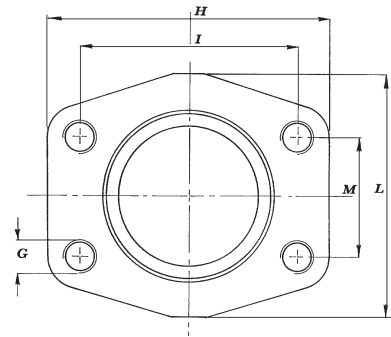
SAE	BAR	A*		B	C	D	E	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	420	3/8	17,5	13	72	32	18	M8	5/16	57	40,5	47	18,3	1098-01-01-G017
1/2"	420	1/2	21,6	13	72	32	18	M8	5/16	57	40,5	47	18,3	1098-01-01-G021
3/4"	420	3/4	27,2	19	72	38	20	M10	3/8	71	50,8	53	23,8	1098-01-01-G027
1"	420	1	34,1	25	88	48	22	M12	7/16	80	57,1	66	27,8	1098-01-01-G033
1.1/4"	420	1.1/4	42,8	31	88	54	22	M14	1/2	94	66,7	77	31,6	1098-01-01-G042
1.1/2"	420	1.1/2	48,6	38	102	60	24	M16	5/8	106	79,4	89	36,7	1098-01-01-G049
2"	420	2	61	50	140	74	25	M20	3/4	135	96,8	116	44,4	1098-01-01-G060
2.1/2"	420	2.1/2	76,6	63	150	90	28	M24	-	166	123,8	150	58,7	1098-01-01-G076
3"	420	3	90,5	73	180	110	30	M30	-	208	152,4	178	71,4	1098-01-01-G090

* standaard METR. / standard METR. / standard METR. / standard METR.

- METR.  Ref. 1096-10
 Ref. 1097-10

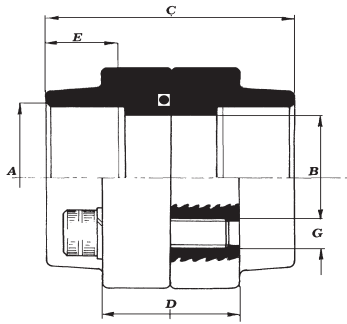


1098-02
BUTT WELD (INCH)
SAE 6000 PSI
Voorlaskoppelflens
Bride de liaison à souder
Double butt weld flange
Doppelanschweißflansch



SAE	BAR	A		B	C	D	S	G*		H	I	L	M	Fe/SM REF.
		INCH	MM					METR.	UNC					
1/2"	420	3/8	17,5	10	72	32	3,7	M8	5/16	57	40,5	47	18,3	1098-02-02-G017
1/2"	420	1/2	21,6	13	72	32	4,3	M8	5/16	57	40,5	47	18,3	1098-02-02-G021
3/4"	420	3/4	27,2	18	72	38	4,6	M10	3/8	71	50,8	53	23,8	1098-02-02-G027
1"	420	1	34,5	22	88	48	6,3	M12	7/16	80	57,1	66	27,8	1098-02-02-G033
1.1/4"	420	1.1/4	42,8	28	88	54	7,4	M14	1/2	94	66,7	77	31,6	1098-02-02-G042
1.1/2"	420	1.1/2	48,6	32	102	60	8,3	M16	5/8	106	79,4	89	36,7	1098-02-02-G049
2"	420	2	61	41	140	74	10	M20	3/4	135	96,8	116	44,4	1098-02-02-G060
2.1/2"	420	2.1/2	76,6	50	150	90	13	M24	-	166	123,8	150	58,7	1098-02-02-G076
3"	420	3	90	58	180	110	16	M30	-	208	152,4	178	71,4	1098-02-02-G090

* standaard METR. / standard METR. / standard METR. / standard METR.

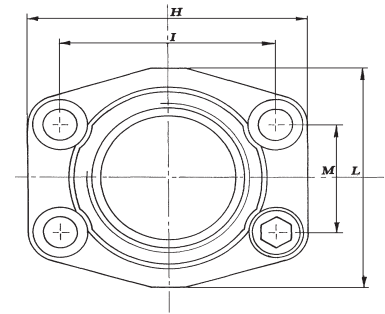


1098-03

BSPP
Threadseal

SAE 6000 PSI

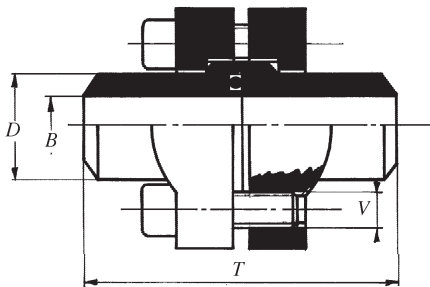
Draadkoppelflens
Bride de liaison taraudée
Double threaded flange
Doppelgewindeflansch



2

SAE	BAR	A BSPP	B	C	D	E	G*		H	I	L	M	Fe/SM REF.
							METR.	UNC					
1/2"	420	G3/8	13	72	32	19	M8	5/16	57	40,5	47	18,3	1098-03-03-G017
1/2"	420	G1/2	13	72	32	19	M8	5/16	57	40,5	47	18,3	1098-03-03-G021
3/4"	420	G3/4	19	72	38	22	M10	3/8	71	50,8	53	23,8	1098-03-03-G027
1"	420	G1	25	88	48	24	M12	7/16	80	57,1	69	27,8	1098-03-03-G033
1.1/4"	420	G1.1/4	31	88	54	25	M14	1/2	94	66,7	77	31,6	1098-03-03-G042
1.1/2"	420	G1.1/2	38	102	60	28	M16	5/8	106	79,4	89	36,7	1098-03-03-G049
2"	420	G2	50	140	74	33	M20	3/4	135	96,8	116	44,4	1098-03-03-G060
2.1/2"	420	G2.1/2	63	150	90	35	M24	-	166	123,8	150	58,7	1098-03-03-G076
3"	420	G3	73	180	110	40	M30	-	208	152,4	178	71,4	1098-03-03-G090

* standaard METR. / standard METR. / standard METR. / standard METR.

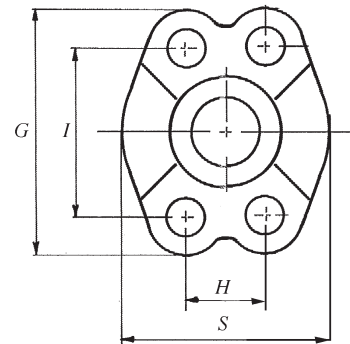


1098-27

BUTTWELD (INCH)

SAE 6000 PSI

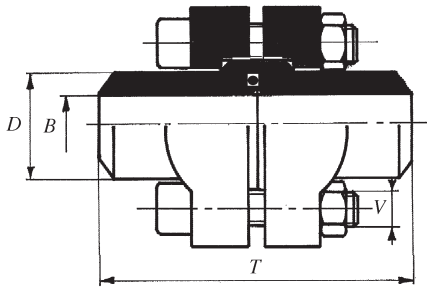
Voorlaskoppelflens
Bride de liaison à souder
Double buttweld flange
Doppelanschweißflansch



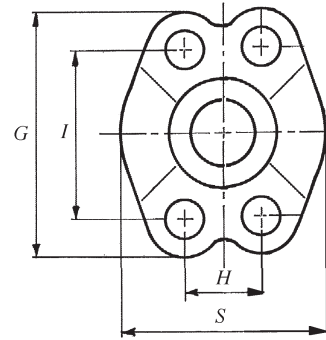
SAE	BAR	B	D	T	S	G	H	I	V*	Fe/SM REF.
1/2"	420	14	22	90	48	57	18,2	40,5	M8x35	1098-27-27-G021
3/4"	420	18	28	100	60	72	23,8	50,8	M10x40	1098-27-27-G027
1"	420	22	35	110	70	81	27,8	57,2	M12x50	1098-27-27-G033
1.1/4"	420	29	44	120	78	96	31,8	66,7	M14x55	1098-27-27-G042
1.1/2"	420	35	51	130	96	113	36,6	79,4	M16x60	1098-27-27-G049
2"	420	43	62	140	114	134	44,4	96,8	M20x75	1098-27-27-G060

* standaard METR. / standard METR. / standard METR. / standard METR.

2




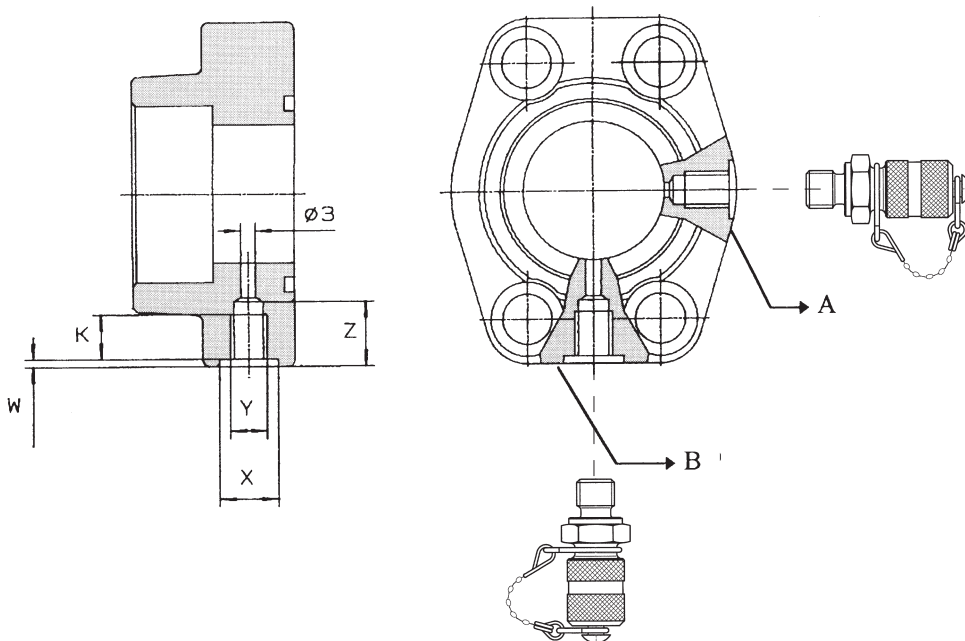
1098-28
BUTTWELD BOLT/NUT (INCH)
SAE 6000 PSI
Voorlaskoppelflens
Bride de liaison à souder
Double buttweld flange
Doppelanschweißflansch

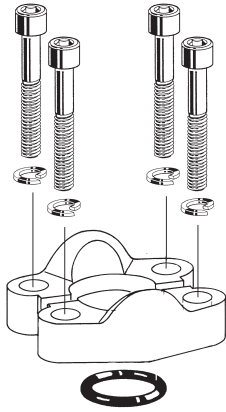


SAE	BAR	B	D	T	S	G	H	I	V*	Fe/SM REF.
1/2"	420	14	22	90	48	57	18,2	40,5	M8x45	1098-28-28-G021
3/4"	420	18	28	100	60	72	23,8	50,8	M10x50	1098-28-28-G027
1"	420	22	35	110	70	81	27,8	57,2	M12x65	1098-28-28-G033
1.1/4"	420	29	44	120	78	96	31,8	66,7	M14x75	1098-28-28-G042
1.1/2"	420	35	51	130	96	113	36,6	79,4	M16x80	1098-28-28-G049
2"	420	43	62	140	114	134	44,4	96,8	M20x100	1098-28-28-G060

* standaard METR. / standard METR. / standard METR. / standard METR.

 Flens met schroefdraad voor meetaansluiting

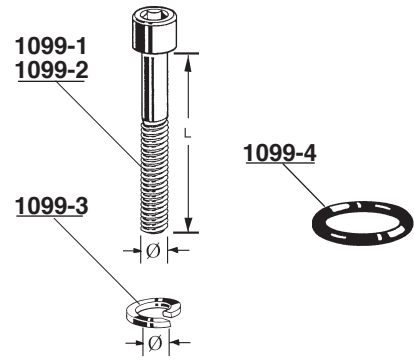




1099

STAAL
ACIER
STEEL
STAHL Fe 12.9/P

Bouten	Veerringen	O-ring
Boulons	Joins ressort	O-ring
Bolts	Spring rings	O-ring
Schrauben	Federringe	O-ring



SAE 3000 PSI (ISO CODE 6162 Tab. 1)

METR.					UNC			
SAE	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.
1/2"	M8x30	1099-1-0830	M8	1099-3-M08	5/16"x1.1/4"	1099-2-0520	M8	1099-3-M08
3/4"	M10x35	1099-1-1035	M10	1099-3-M10	3/8"x1.1/2"	1099-2-0624	3/8"	1099-3-U06
1"	M10x35	1099-1-1035	M10	1099-3-M10	3/8"x1.1/2"	1099-2-0624	3/8"	1099-3-U06
1.1/4"	M10x40	1099-1-1040	M10	1099-3-M10	7/16"x1.1/2"	1099-2-0724	7/16"	1099-3-U07
1.1/2"	M12x45	1099-1-1245	M12	1099-3-M12	1/2"x1.3/4"	1099-2-0828	1/2"	1099-3-U08
2"	M12x45	1099-1-1245	M12	1099-3-M12	1/2"x1.3/4"	1099-2-0828	1/2"	1099-3-U08
2.1/2"	M12x45	1099-1-1245	M12	1099-3-M12	1/2"x1.3/4"	1099-2-0828	1/2"	1099-3-U08
3"	M16x55	1099-1-1655	M16	1099-3-M16	5/8"x2.1/4"	1099-2-1036	M16	1099-3-M16
3.1/2"	M16x55	1099-1-1655	M16	1099-3-M16	5/8"x2.1/4"	1099-2-1036	M16	1099-3-M16
4"	M16x55	1099-1-1655	M16	1099-3-M16	5/8"x2.1/4"	1099-2-1036	M16	1099-3-M16
5"	M16x55	1099-1-1655	M16	1099-3-M16	5/8"x2.1/4"	1099-2-1036	M16	1099-3-M16

SAE 6000 PSI (ISO CODE 6162 Tab. 2)

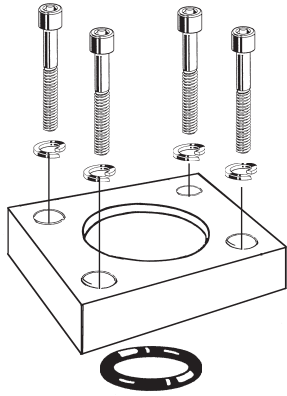
METR.					UNC			
SAE	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.
1/2"	M8x30	1099-1-0830	M8	1099-3-M08	5/16"x1.1/4"	1099-2-0520	M8	1099-3-M08
3/4"	M10x35	1099-1-1035	M10	1099-3-M10	3/8"x1.1/2"	1099-2-0624	3/8"	1099-3-U06
1"	M12x45	1099-1-1245	M12	1099-3-M12	7.16"x1.3/4"	1099-2-0728	7/16"	1099-3-U07
1.1/4"	M14x50	1099-1-1450	M14	1099-3-M14	1/2"x2"	1099-2-0832	1/2"	1099-3-U08
1.1/2"	M16x55	1099-1-1655	M16	1099-3-M16	5/8"x2.1/4"	1099-2-1036	M16	1099-3-M16
2"	M20x70	1099-1-2070	M20	1099-3-M20	3/4"x2.3/4"	1099-2-1244	M20	1099-3-M20
2.1/2"	M24x90	1099-1-2490	M24	1099-3-M24				
3"	M30x110	1099-1-30110	M30	1099-3-M30				

TYPE CAT Ref. 8787, 8790, 8793, 9787, 9790 & 9793 → ← Ref. 1096-23/24

METR.					UNC			
CAT (SAE)	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.
1/2"	M8x35	1099-1-0835	M8	1099-3-M08	5/16"x1.1/2"	1099-2-0524	M8	1099-3-M08
3/4"	M10x40	1099-1-1040	M10	1099-3-M10	3/8"x1.3/4"	1099-2-0628	3/8"	1099-3-U06
1"	M12x50	1099-1-1250	M12	1099-3-M12	7.16"x2"	1099-2-0732	7/16"	1099-3-U07
1.1/4"	M14x55	1099-1-1455	M14	1099-3-M14	1/2"x2.1/4"	1099-2-0836	1/2"	1099-3-U08
1.1/2"	M16x55	1099-1-1655	M16	1099-3-M16	5/8"x2.1/4"	1099-2-1036	M16	1099-3-M16
2"	M20x70	1099-1-2070	M20	1099-3-M20	3/4"x2.3/4"	1099-2-1244	M20	1099-3-M20

 NBR -35/+100° Shore A90 FPM (Viton®) 2.61	SAE	d1	d2	N	REF.	 NBR -35/+100° Shore A90 FPM (Viton®) 2.61	SAE	d1	d2	N	REF.
	1/2"	18,6	25,7	3,53	1099-4-G021		2"	65,1	72,2	3,53	1099-4-G060-1**
1/2"	25,7	30,3	2,62	1099-4-G021-1**	2.1/2"	69,4	76,5	3,53	1099-4-G076		
3/4"	25,0	32,0	3,53	1099-4-G027	2.1/2"	79,0	86,0	3,53	1099-4-G076-1**		
3/4"	31,3	38,4	3,53	1099-4-G027-1**	3"	85,3	92,4	3,53	1099-4-G090		
1"	32,9	40,0	3,53	1099-4-G033	3"	94,8	101,9	3,53	1099-4-G090-1**		
1.1/4"	37,7	44,8	3,53	1099-4-G042	3.1/2"	98,0	105,1	3,53	1099-4-G101		
1.1/4"	44,4	51,5	3,53	1099-4-G042-1**	3.1/2"	107,6	114,7	3,53	1099-4-G101-1**		
1.1/2"	47,2	54,3	3,53	1099-4-G049	4"	110,7	117,8	3,53	1099-4-G114		
1.1/2"	52,4	59,4	3,53	1099-4-G049-1**	4"	117,1	124,2	3,53	1099-4-G114-1**		
2"	56,7	63,8	3,53	1099-4-G060	5"	136,1	143,2	3,53	1099-4-G140		
					5"	145,6	152,7	3,53	1099-4-G140-1**		

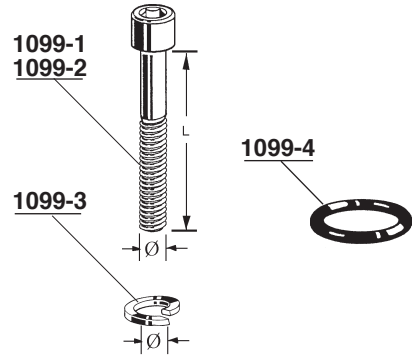
** SAE 3000/6000



1099

STAAL
ACIER
STEEL
STAHL **FE 12.9/P**

Bout	Veerring	O-ring
Boulon	Joint ressort	O-ring
Bolt	Spring ring	O-ring
Schraub	Federring	O-Ring



CETOP / SID 250 BAR

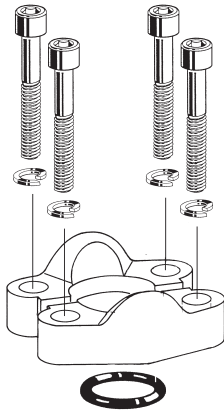
CETOP					SID			
CETOP	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.
3/8"	M6x25	1099-1-0625	M6	1099-3-M06	-	-	-	-
1/2"	M8x30	1099-1-0830	M8	1099-3-M08	M6x25	1099-1-0625	M6	1099-3-M06
3/4"	M8x30	1099-1-0830	M8	1099-3-M08	M8x30	1099-1-0830	M8	1099-3-M08
1"	M10x35	1099-1-1035	M10	1099-3-M10	M10x35	1099-1-1035	M10	1099-3-M10
1.1/4"	M12x40	1099-1-1240	M12	1099-3-M12	M12x40	1099-1-1240	M12	1099-3-M12
1.1/2"	M14x45	1099-1-1445	M14	1099-3-M14	M12x45	1099-1-1245	M12	1099-3-M12
2"	M16x55	1099-1-1655	M16	1099-3-M16	M14x50	1099-1-1450	M14	1099-3-M14
2.1/2"	M20x65	1099-1-2065	M20	1099-3-M20	M18x65	1099-1-1865	M18	1099-3-M18
3"	M20x75	1099-1-2075	M20	1099-3-M20	M22x75	1099-1-2275	M22	1099-3-M22
3.1/2"	M20x90	1099-1-2090	M20	1099-3-M20	-	-	-	-
4"	M24x100	1099-1-24100	M24	1099-3-M24	M27x100	1099-1-27100	M27	1099-3-M27

CETOP 400 BAR

CETOP								
CETOP	Ø x L	Fe 12.9/P REF.	Ø	Fe/P REF.				
3/8"	M6x25	1099-1-0625	M6	1099-3-M06				
1/2"	M8x30	1099-1-0830	M8	1099-3-M08				
3/4"	M8x35	1099-1-0835	M8	1099-3-M08				
1"	M10x40	1099-1-1040	M10	1099-3-M10				
1.1/4"	M12x45	1099-1-1245	M12	1099-3-M12				
1.1/2"	M14x55	1099-1-1455	M14	1099-3-M14				
2"	M16x65	1099-1-1665	M16	1099-3-M16				
2.1/2"	M20x75	1099-1-2075	M20	1099-3-M20				
3"	M20x90	1099-1-2090	M20	1099-3-M20				
3.1/2"	M20x90	1099-1-2090	M20	1099-3-M20				
4"	M24x100	1099-1-24100	M24	1099-3-M24				

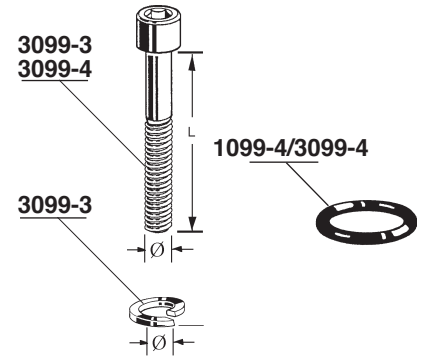
O-Ring CETOP / SID

	250 BAR					400 BAR			
	CETOP/SID	d1	d2	N	NBR REF.	d1	d2	N	NBR REF.
NBR -35/+100° Shore A90 FPM (Viton®) 2.61	3/8"	17,1	22,3	2,62	1099-4-G013	17,1	22,3	2,62	1099-4-G013
	1/2"	18,6	25,7	3,53	1099-4-G021	18,6	25,7	3,53	1099-4-G021
	3/4"	25,0	32,0	3,53	1099-4-G027	25,0	32,0	3,53	1099-4-G027
	1"	32,9	40,0	3,53	1099-4-G033	32,9	40,0	3,53	1099-4-G033
	1.1/4"	37,7	44,8	3,53	1099-4-G042	37,7	44,8	3,53	1099-4-G042
	1.1/2"	47,2	54,3	3,53	1099-4-G049	47,2	54,3	3,53	1099-4-G049
	2"	56,7	63,8	3,53	1099-4-G060	56,7	63,8	3,53	1099-4-G060
	2.1/2"	69,4	76,5	3,53	1099-4-G076	69,4	76,5	3,53	1099-4-G076
	3"	85,3	92,4	3,53	1099-4-G090	69,4	76,5	3,53	1099-4-G076
	3.1/2"	85,3	92,4	3,53	1099-4-G090	69,4	76,5	3,53	1099-4-G076
4"	98,0	105,1	3,53	1099-4-G101	85,3	92,4	3,53	1099-4-G090	



3099
ROESTVASTSTAAL
INOXYDABLE **AISI 316**
STAINLESS STEEL
ROSTFREISTAHL A4

Bout	Veerring	O-ring
Boulon	Joint ressort	O-ring
Bolt	Spring ring	O-ring
Schraub	Federring	O-ring



SAE 3000 PSI

METR.					UNC			
SAE	Ø x L	AISI 316 / A4 REF.	Ø	AISI 316 / A4 REF.	Ø x L	AISI 316 / A4 REF.	Ø	AISI 316 / A4 REF.
1/2"	M8x30	3099-3-0830	M8	3099-3-M08	5/16"x1.1/4"	3099-4-0520	M8	3099-3-M08
3/4"	M10x35	3099-3-1035	M10	3099-3-M10	3/8"x1.1/2"	3099-4-0624	3/8"	3099-3-U06
1"	M10x35	3099-3-1035	M10	3099-3-M10	3/8"x1.1/2"	3099-4-0624	3/8"	3099-3-U06
1.1/4"	M10x40	3099-3-1040	M10	3099-3-M10	7/16"x1.1/2"	3099-4-0724	7/16"	3099-3-U07
1.1/2"	M12x45	3099-3-1245	M12	3099-3-M12	1/2"x1.3/4"	3099-4-0828	1/2"	3099-3-U08
2"	M12x45	3099-3-1245	M12	3099-3-M12	1/2"x1.3/4"	3099-4-0828	1/2"	3099-3-U08
2.1/2"	M12x45	3099-3-1245	M12	3099-3-M12	1/2"x1.3/4"	3099-4-0828	1/2"	3099-3-U08
3"	M16x55	3099-3-1655	M16	3099-3-M16	5/8"x2.1/4"	3099-4-1036	M16	3099-3-M16
3.1/2"	M16x55	3099-3-1655	M16	3099-3-M16	5/8"x2.1/4"	3099-4-1036	M16	3099-3-M16
4"	M16x55	3099-3-1655	M16	3099-3-M16	5/8"x2.1/4"	3099-4-1036	M16	3099-3-M16
5"	M16x55	3099-3-1655	M16	3099-3-M16	5/8"x2.1/4"	3099-4-1036	M16	3099-3-M16

SAE 6000 PSI

METR.					UNC			
SAE	Ø x L	AISI 316 / A4 REF.	Ø	AISI 316 / A4 REF.	Ø x L	AISI 316 / A4 REF.	Ø	AISI 316 / A4 REF.
1/2"	M8x30	3099-3-0830	M8	3099-3-M08	5/16"x1.1/4"	3099-4-0520	M8	3099-3-M08
3/4"	M10x35	3099-3-1035	M10	3099-3-M10	3/8"x1.1/2"	3099-4-0624	3/8"	3099-3-U06
1"	M12x45	3099-3-1245	M12	3099-3-M12	7/16"x1.3/4"	3099-4-0728	7/16"	3099-3-U07
1.1/4"	M14x50	3099-3-1450	M14	3099-3-M14	1/2"x2"	3099-4-0832	1/2"	3099-3-U08
1.1/2"	M16x55	3099-3-1655	M16	3099-3-M16	5/8"x2.1/4"	3099-4-1036	M16	3099-3-M16
2"	M20x70	3099-3-2070	M20	3099-3-M20	3/4"x2.3/4"	3099-4-1244	M20	3099-3-M20
2.1/2"	M24x90	3099-3-2490	M24	3099-3-M24				
3"	M30x110	3099-3-30110	M30	3099-3-M30				

O-Ring SAE 3000/6000 PSI

	SAE	d1	d2	N	NBR REF.	FPM (Viton®) REF.
<p>NBR -35/+100°</p> <p>FPM -25/+200°C</p> <p>Shore A90</p>	1/2"	18,6	25,7	3,53	1099-4-G021	3099-4-G021
	1/2"	18,6	25,7	3,53	1099-4-G021	
	1/2"	25,7	30,3	2,62	1099-4-G021-1**	3099-4-G027
	3/4"	25	32	3,53	1099-4-G027	
	3/4"	31,3	38,4	3,53	1099-4-G027-1**	3099-4-G033
	1"	32,9	40	3,53	1099-4-G033	
	1.1/4"	37,7	44,8	3,53	1099-4-G042	3099-4-G042
	1.1/4"	44,4	51,5	3,53	1099-4-G042-1**	
	1.1/2"	47,2	54,3	3,53	1099-4-G049	3099-4-G049
	1.1/2"	52,4	59,4	3,53	1099-4-G049-1**	
	2"	56,7	63,8	3,53	1099-4-G060	3099-4-G060
	2"	65,1	72,2	3,53	1099-4-G060-1**	
	2.1/2"	69,4	76,5	3,53	1099-4-G076	3099-4-G076
	2.1/2"	79	86	3,53	1099-4-G076-1**	
	3"	85,3	92,4	3,53	1099-4-G090	3099-4-G090
	3"	94,8	101,9	3,53	1099-4-G090-1**	
	3.1/2"	98	105,1	3,53	1099-4-G101	3099-4-G101
	3.1/2"	107,6	114,7	3,53	1099-4-G101-1**	
	4"	110,7	117,8	3,53	1099-4-G114	3099-4-G114
	4"	117,1	124,2	3,53	1099-4-G114-1**	
5"	136,1	143,2	3,53	1099-4-G140	3099-4-G140	
5"	145,6	152,7	3,53	1099-4-G140-1**		

** SAE 3000/6000

Algemene informatie flenzen
Informations générales brides
General information flanges
Allgemeine Information Flansche

BAR	: 0 - 420
SAE 3000 PSI	: 1/2" - 5"
SAE 6000 PSI	: 1/2" - 3"
Temp. °C	: -40 / +110



De flenzen op de volgende pagina's zijn van staal 9SMnPb36, staal 52.3, C60 of smeedstaal met minder dan 0,22% koolstof (ASTM 105 / AFNOR xc 18).
 Oppervlak: zwart gefosfateerd of verzinkt.
 Ze worden met of zonder bevestigingsbouten (METR. of UNC), veerringen en O-ring geleverd (a.u.b. bij bestelling aangeven, zie bestelvoorbeeld).

Ze zijn leverbaar met verschillende soorten aansluitingen en worden gebruikt in hydraulische systemen in het algemeen waar zware belastingen voorkomen.

Op aanvraag kunnen de flenzen ook van roestvaststaal, AISI 316 (V4A), geleverd worden.
 We produceren ook flenzen volgens tekening van de klant.

Op aanvraag kunnen de flenzen met keuringsdocument volgens Lloyds Register of Shipping, ABS of D.N.V. geleverd worden.

The flanges on the followings pages are made of steel 9SMnPb36, steel 52.3, C60 or hot forged welding steel with less than 0,22% carbonium (ASTM 105 / AFNOR xc 18).
 Surface: black phosphated or zinc plated.
 They are supplied single, or complete with METR. or UNC screws (to specify on all the orders), washers and O-ring (see way of ordering).

They are available with several types of connections and are used on hydraulic systems in general when there are heavy loads.

On request the flanges can be supplied also in stainless steel AISI 316 (V4A).
 We also produce flanges according to customers drawing.

Flanges can be supplied with inspection documents according to Lloyds Register of Shipping, ABS or D.N.V. approval.

Les brides aux pages suivantes sont en acier 9SMnPb36, acier 52.3, C60 ou acier forgé avec moins de 0,22% de carbone (ASTM 105 / AFNOR xc 18). Surface: phosphatée noir ou zinguée.
 Elles sont fournies avec ou sans boulons de fixation (METR. ou UNC), joints de ressort et O-ring (s.v.p. indiquer sur la commande, voir exemple de commande).

Elles sont livrables avec différents types de connexions et sont utilisées dans des systèmes hydrauliques en cas d'installations à fortes sollicitations.

Sur demande les brides peuvent aussi être fournies en acier inoxydable, AISI 316 (V4A). Nous produisons aussi des brides d'après vos plans.

Sur demande nous pouvons livrer les brides avec certificats d'inspection d'après la norme Lloyds Register of Shipping, ABS ou D.N.V.

Die auf den folgenden Seiten dargestellten Flansche werden aus Stahl 9SMnPb36, Stahl 52.3, C60 oder geschmiedetem Stahl mit weniger als 0,22% Kohlenstoff hergestellt (ASTM 105 / AFNOR xc 18).

Oberfläche: schwarz phosphatiert oder verzinkt.
 Sie werden als Einzelflansche oder komplett mit METR.- oder UNC-Schrauben (bitte angeben), Federringen und O-Ring geliefert. (Sehe Bestellbeispiel).

Sie sind mit verschiedenen Gewinde lieferbar. Anwendungsgebiete sind Hydraulikanlagen im allgemeinen wo es schwere Belastungen gibt.

Auf Anfrage können die Flansche auch in rostfreiem Stahl AISI 316 (V4A) geliefert werden.
 Bei Bedarf stellen wir auch Flansche nach Kundenzeichnungen her.

Auf Anfrage können die Flansche mit Prüfbescheinigung gemäss Lloyds Register of Shipping, ABS oder D.N.V., je nach Werkstoff

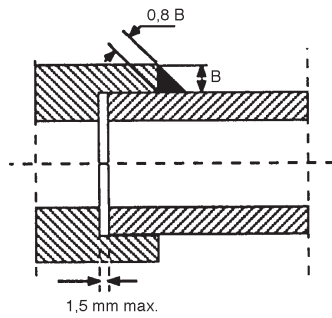
**Bestelvoorbeeld
Manière de commander
Way of ordering
Bestellbeispiel**



**Flens SAE 3000 PSI, 3/4 BSPP binnendraad:
Bride SAE 3000 PSI, 3/4 BSPP filetage femelle:
Flange SAE 3000 PSI, 3/4 BSPP female thread:
Flansch SAE 3000 PSI, 3/4 BSPP Innengewinde:**

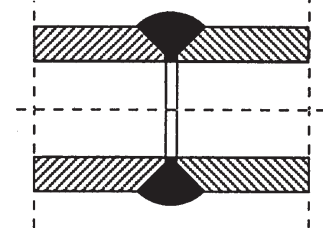
		REF.
	Zonder bouten / O-ring Sans boulons / O-ring Without bolts / O-ring Ohne Schrauben / O-Ring	1093-03-G027
	Met METR. bouten 12.9 / O-ring Avec boulons METR. 12.9 / O-ring With METR. bolts 12.9 / O-ring Mit METR. Schrauben 12.9 / O-Ring	1093-03-G027M
	Met UNC bouten 12.9 / O-ring Avec boulons UNC 12.9 / O-ring With UNC bolts 12.9 / O-ring Mit UNC Schrauben 12.9 / O-Ring	1093-03-G027U
	Roestvaststaal AISI 316 zonder bouten / O-ring Inoxydable AISI 316 sans boulons / O-ring Stainless steel AISI 316 without bolts / O-ring Edelstahl AISI 316 ohne Schrauben / O-ring	3093-03-G027
	Roestvaststaal AISI 316 met METR. bouten AISI 316 / O-ring Inoxydable AISI 316 avec boulons METR. AISI 316 / O-ring Stainless steel AISI 316 with METR. bolts AISI 316 / O-ring Edelstahl AISI 316 mit METR. Schrauben AISI 316 / O-ring Stal nierdzewna AISI 316 z METR. >rub' AISI 316 (O-ring Yth;fdt/ofz cnfkm AISI 316 C ,jknfvb METR. AISI 316/O-ring	3093-03-G027M3
	Contra flens standaard met METR. bevestigingsdraad Contre bride avec filetage de montage METR. standard Counter flange standard with METR. mounting thread Gegenflansch standard mit METR. Befestigungsgewinde	1094-03-G027
	Koppelflens standaard met METR. bouten Bride de liaison avec boulons METR. standard Double flange standard with METR. bolts Doppelflansch standard mit METR. Schrauben	1095-03-03-G027

SOCKET WELDING



NFE 29031

BUTT WELDING



NFE 29032 DIN 2559

Algemene montage-instructies voor lasflenzen Instructions de montage general pour brides de soudure General mounting instructions for welding flanges Allgemeine Montage-Anleitung für Schweißflansche

Algemene montage-instructies:

- 1) Reinig het gedeelte van de pijp waar de verbinding moet worden gemaakt.
- 2) Leg de pijpen naast elkaar en controleer of ze evenwijdig lopen aan de ondersteuning.
- 3) Als de pijp is gemonteerd, erop letten dat de te koppelen flenzen evenwijdig lopen en de bouten geen nadeel ondervinden van spanningen, veroorzaakt door verkeerde uitlijning.
- 4) De bouten gelijkmatig kruislings aantrekken.

Lasinstructies: Socketwelding

- 1) Zaag de pijp haaks af en reinig het uiteinde zorgvuldig.
- 2) Een ruimte van 1 tot 1,5 mm dient tussen het einde van de pijp en bodem van de "Socketweld"-kamer aangehouden te worden om uitzetting, veroorzaakt door het lassen te voorkomen.

Lasinstructies: Butt welding

- 1) Zaag de pijp haaks af en maak er een schuine kant van 45° aan.
- 2) Reinig zorgvuldig de pijp in- en uitwendig.

General mounting instructions:

- 1) Clean the part of the tube where it has to be connected.
- 2) Lay the tubes next to each other and check if they are parallel to the supports.
- 3) When the tube has been mounted, please take care that the flanges to be connected are parallel and that the bolts do not suffer from any constraint, due to wrong alignment.
- 4) Tighten the bolts two by two, crosswise.

Welding-instructions: Socketwelding.

- 1) Cut the tube straight and clean the end carefully.
- 2) Keep a gap of 1 to 1.5 mm between the end of the tube and the bottom of the socketwelding chamber, in order to avoid dilation caused by welding.

Welding-instructions: Butt welding.

- 1) Cut the tube straight and chamfer it to 45 degrees.
- 2) Carefully clean the interior and exterior.

Instructions générales de montage:

- 1) Nettoyer la partie du tube où doit se faire la connection.
- 2) Présenter les tubes l'un à côté de l'autre et contrôler s'ils sont parallèles aux support.
- 3) Le tube étant monté, faites attention à ce que les brides à connecter soient parallèles et que les boulons ne subissent aucune contrainte mécanique due à un mauvais alignement.
- 4) Serrer les boulons deux par deux, diamétralement opposés.

Instructions de soudure: Socketwelding

- 1) Couper le tube d'équerre et nettoyer soigneusement.
- 2) Conserver un écartement de 1 à 1.5 mm entre l'extrémité du tube et le fond du logement Socketwelding, pour éviter des dilatations dues à la soudure.

Instructions de soudure: Butt welding

- 1) Couper le tube d'équerre et chanfreiner les bords à 45°.
- 2) Nettoyer soigneusement l'intérieur et l'extérieur du tube.

Allgemeine Montage-Anleitung:

- 1) Rohr säubern wo Verbindungstelle gemacht werden soll.
- 2) Rohre gegenüber einander legen und kontrollieren ob Rohre parallel laufen mit die Unterstützung.
- 3) Wenn Rohr montiert ist beachten dass die zu kuppeln Flansche parallel laufen und die Schrauben nicht beansprucht werden durch zu hohe Spannung, verursacht durch falsche horizontale bzw. vertikale Auslegung.
- 4) Schrauben gleichmässig kreuzweise anziehen.

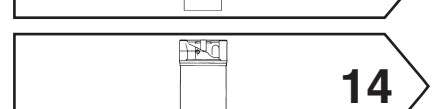
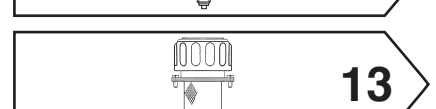
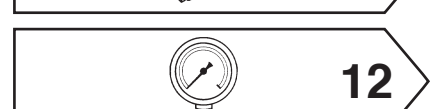
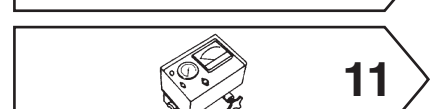
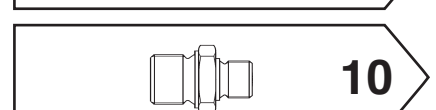
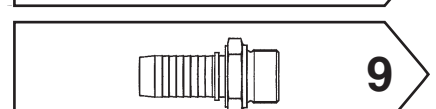
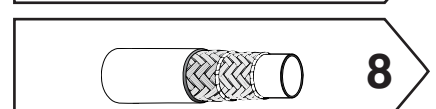
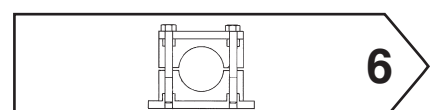
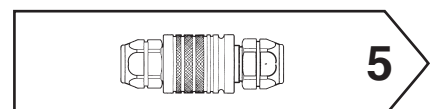
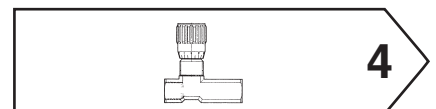
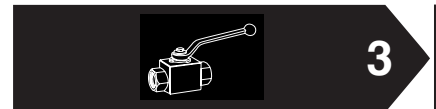
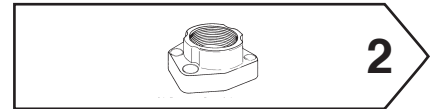
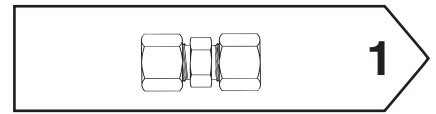
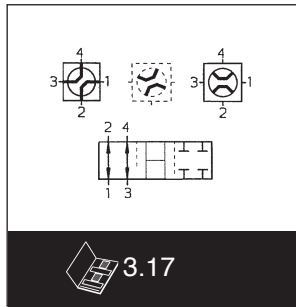
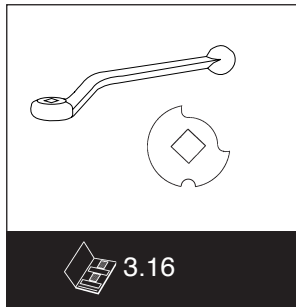
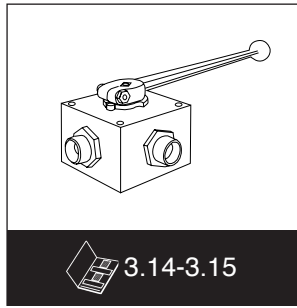
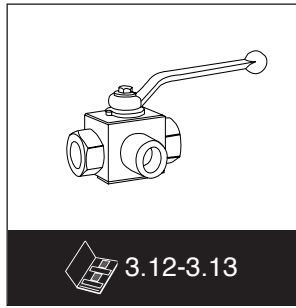
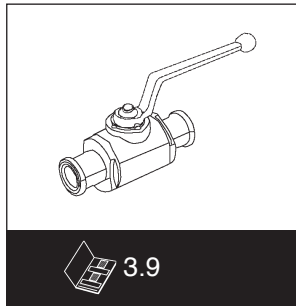
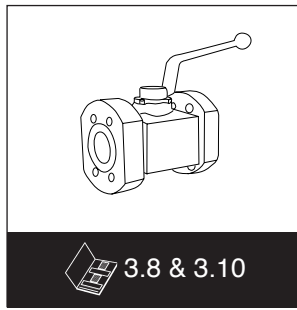
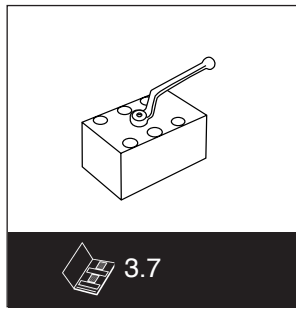
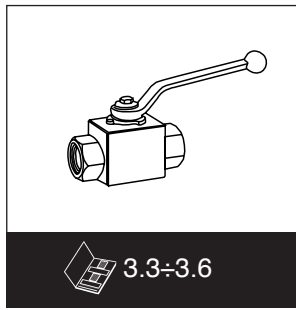
Schweissinstruktion: Socketwelding.

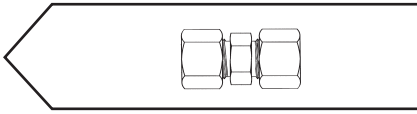
- 1) Rohr rechtwinklig abschneiden und Rohrende sorgfältig säubern.
- 2) Man soll ein raum von 1 bis 1.5 mm anhalten zwischen Rohrende und "Socketweld"-Boden um ausdehnen zu vermeiden verursacht durch Schweißen.

Schweißinstruktion: Butt welding.

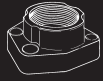
- 1) Rohr rechtwinklig abschneiden und abschrägen auf 45 Grad.
- 2) Rohr innen und aussen sorgfältig säubern.

ATZ Aandrijftechniek B.V. (026-3112611)





2



1080-11

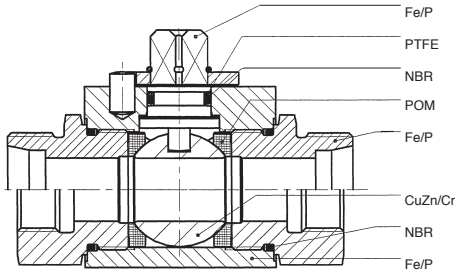
-20/+100°C

Kogelafsluiter
Vanne à boisseau sphérique
Ball valve
Kugelhahn

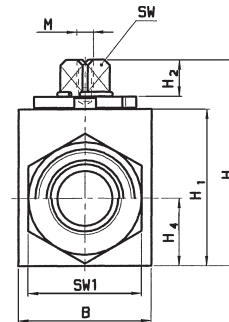
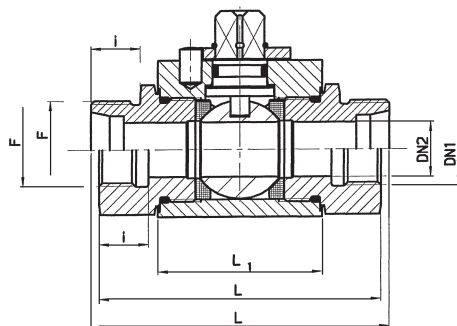


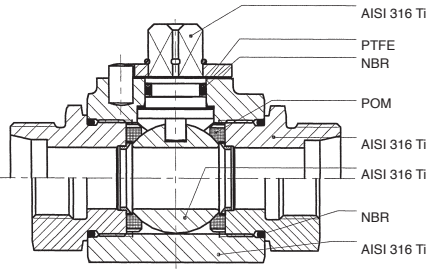
Flütec

3



	↔		F	DIN 2353	BAR DIN 2353	BAR	L	L1	B	H	H1	H2	H4	i	M	SW1	SW	Kg	Fe/P REF.
	DN1	DN2																	
 BSPP	4	6	G1/8			500	69	35	25	39	30	5	13	10	M3	19	6	0,28	1080-11-0402
	6	6	G1/4			500	69	35	25	39	30	5	13	14	M3	22	6	0,27	1080-11-0604
	10	10	G3/8			500	72	42	32	53	40	8	17	14	M5	27	9	0,51	1080-11-1006
	12	12	G1/2			500	83	47	35	53	40	8	17	16	M5	30	9	0,64	1080-11-1308
	12	15	G1/2			400	83	47	38	62	45	11	19	16	M5	32	12	0,96	1080-11-1608
	20	20	G3/4			315	95	60	48	75	57	11	24,5	18	M5	41	14	1,56	1080-11-2012
	25	25	G1			315	113	65	57	82	64	11	28,5	20,5	M6	50	14	2,29	1080-11-2516
	32	25	G1.1/4			315	120	65	57	82	64	11	28,5	22	M6	50	14	2,19	1080-11-2520
40	25	G1.1/2			315	135	65	57	82	64	11	28,5	26	M6	60	14	2,59	1080-11-2524	
 NPTF	6	6	1/4NPTF			500	69	35	25	39	30	5	13	10,2	M3	22	6	0,27	1080-11-0604N
	10	10	3/8NPTF			500	72	42	32	53	40	8	17	10,4	M5	27	9	0,51	1080-11-1006N
	12	12	1/2NPTF			500	83	47	35	53	40	8	17	13,6	M5	30	9	0,64	1080-11-1308N
	20	20	3/4NPTF			315	95	60	48	75	57	11	24,5	13,7	M5	41	14	1,56	1080-11-2012N
	25	25	1 NPTF			315	113	65	57	82	64	11	28,5	17,3	M6	50	14	2,29	1080-11-2516N
	32	25	1.1/4NPTF			315	120	65	57	82	64	11	28,5	18	M6	50	14	2,19	1080-11-2520N
 CEL 24°	4	4	M12x1,5	6L	315	500	67	35	25	39	30	5	13	10	M3	19	6	0,25	1080-11-0406L
	6	6	M14x1,5	8L	315	500	67	35	25	39	30	5	13	10	M3	19	6	0,25	1080-11-0608L
	8	8	M16x1,5	10L	315	500	74	42	32	53	40	8	17	11	M5	27	9	0,48	1080-11-0810L
	10	10	M18x1,5	12L	315	500	74	42	32	53	40	8	17	11	M5	27	9	0,48	1080-11-1012L
	12	12	M22x1,5	15L	315	500	82	47	35	53	40	8	17	12	M5	30	9	0,59	1080-11-1315L
	16	12	M26x1,5	18L	315	400	82	47	35	53	40	8	17	12	M5	30	9	0,58	1080-11-1318L
	16	15	M26x1,5	18L	315	400	82	47	38	62	45	11	19	12	M5	32	12	0,90	1080-11-1618L
	20	19	M30x2	22L	160	315	101	60	48	75	57	11	24,5	14	M6	41	14	1,51	1080-11-2022L
	25	24	M36x2	28L	160	315	108	65	57	82	64	11	28,5	14	M6	50	14	1,80	1080-11-2528L
	32	25	M45x2	35L	160	315	112	65	57	82	64	11	28,5	16	M6	50	14	1,86	1080-11-2535L
	40	25	M52x2	42L	160	315	114	65	57	82	64	11	28,5	16	M6	50	14	1,94	1080-11-2542L
	 CEL 24°	4	5	M16x1,5	8S	630	500	73	35	25	39	30	5	13	12	M3	19	6	0,35
6		6	M18x1,5	10S	630	500	73	35	25	39	30	5	13	12	M3	19	6	0,35	1080-11-0610S
8		8	M20x1,5	12S	630	500	76	42	32	53	40	8	17	12	M5	27	9	0,50	1080-11-0812S
10		10	M22x1,5	14S	630	500	80	42	32	53	40	8	17	14	M5	27	9	0,50	1080-11-1014S
12		12	M24x1,5	16S	400	500	86	47	35	53	40	8	17	14	M5	30	9	0,60	1080-11-1316S
16		12	M30x2	20S	400	500	90	47	35	53	40	8	17	16	M5	30	9	0,66	1080-11-1320S
16		15	M30x2	20S	400	400	90	47	38	62	45	11	19	16	M5	32	12	0,94	1080-11-1620S
20		20	M36x2	25S	400	315	109	60	48	75	57	11	24,5	18	M6	41	14	1,58	1080-11-2025S
25		25	M42x2	30S	400	315	120	65	57	82	64	11	28,5	20	M6	50	14	2,13	1080-11-2530S
32		25	M52x2	38S	315	315	124	65	57	82	64	11	28,5	22	M6	55	14	2,29	1080-11-2538S





1080-29

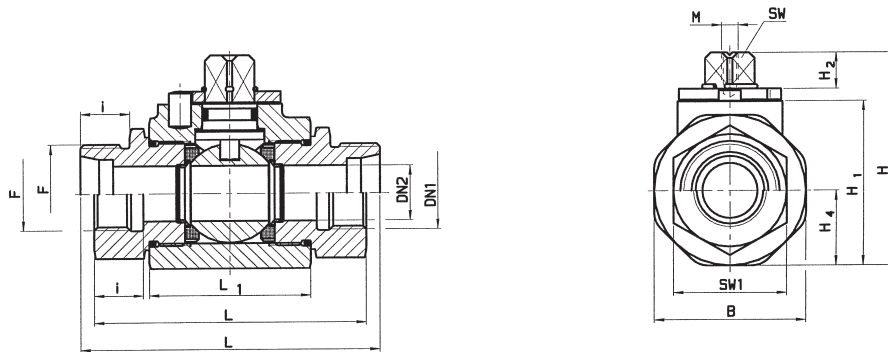
-40/+100°C

RVS Kogelafsluiter
Vanne à boisseau sphérique INOX
Stainless steel ball valve
Kugelhahn Edelstahl



Flütec

	↔		F	DIN 2353	BAR DIN 2353	BAR	L	L1	B	H	H1	H2	H4	i	M	SW	SW1	Kg	AISI 316 Ti REF.
	DN1	DN2																	
 BSPP	4	6	G1/8			500	69	34	28	40	31	5	14	10	M3	6	19	0,30	1080-29-0402
	6	6	G1/4			500	69	35	29	51,5	36,5	12	14,5	14	M5	9	24	0,31	1080-29-0604
	10	10	G3/8			500	72	41	36	54	40,8	8	18	14	M5	9	27	0,49	1080-29-1006
	12	12	G1/2			500	83	41	36	54	40,8	8	18	16	M5	9	30	0,63	1080-29-1308
	12	15	G1/2			400	83	46	45	65,5	48,5	11	22,5	16	M5	12	32	1,0	1080-29-1608
	20	20	G3/4			315	95	59	55	78	60	11	27,5	18	M5	14	41	1,54	1080-29-2012
	25	25	G1			315	113	64	60	83,5	65,5	11	30	20,5	M6	14	50	2,07	1080-29-2516
	32	30	G1.1/4			315	110	84	75	102,7	84,2	12	37,5	22	M8	17	60	3,35	1080-29-3220
	40	38	G1.1/2			315	130	91	85	113,7	95,2	12	42,5	24	M8	17	70	4,75	1080-29-4024
	50	48	G2			315	140	100	105	131,2	112,7	12	52,5	26	M8	17	80	6,95	1080-29-5032
 NPTF	6	6	1/4NPTF			500	69	34	28	40	31	5	14	10,2	M3	6	22	0,31	1080-29-0604N
	10	10	3/8NPTF			500	72	41	36	54	40,8	8	18	10,4	M5	9	27	0,55	1080-29-1006N
	12	12	1/2NPTF			500	83	41	36	54	40,8	8	18	13,6	M5	9	30	0,63	1080-29-1308N
	20	20	3/4NPTF			315	95	59	55	78	60	11	27,5	13,7	M5	14	41	1,56	1080-29-2012N
	25	25	1NPTF			315	113	64	60	83,5	65,5	11	30	17,3	M6	14	50	2,07	1080-29-2516N
	32	30	1.1/4NPTF			315	110	84	75	102,7	84,2	12	37,5	18	M8	17	60	4,3	1080-29-3220N
 CEL 24°	4	4	M12x1,5	6L	315	500	67	34	28	40	31	5	14	10	M3	6	19	0,24	1080-29-0406L
	6	6	M14x1,5	8L	315	500	67	34	28	40	31	5	14	10	M3	6	19	0,25	1080-29-0608L
	8	8	M16x1,5	10L	315	500	74	41	36	54	40,8	8	18	11	M5	9	27	0,46	1080-29-0810L
	10	10	M18x1,5	12L	315	500	74	41	36	54	40,8	8	18	11	M5	9	27	0,55	1080-29-1012L
	12	12	M22x1,5	15L	315	500	82	41	36	54	40,8	8	18	12	M5	9	30	0,6	1080-29-1315L
	16	12	M26x1,5	18L	315	500	82	41	36	54	40,8	8	18	12	M5	9	30	0,7	1080-29-1318L
	16	15	M26x1,5	18L	315	400	82	46	45	65,5	48,5	11	22,5	12	M5	12	32	0,99	1080-29-1618L
	20	19	M30x2	22L	160	315	101	59	55	78	60	11	27,5	14	M6	14	41	1,5	1080-29-2022L
	25	25	M36x2	28L	160	315	108	64	60	83,5	65,5	11	30	14	M6	14	50	1,76	1080-29-2528L
	32	30	M45x2	35L	160	315	141	84	75	102,7	84,2	12	37,5	16	M8	17	60	3,44	1080-29-3235L
 CES 24°	4	5	M16x1,5	8S	630	500	73	34	28	40	31	5	14	12	M3	6	19	0,24	1080-29-0408S
	6	6	M18x1,5	10S	630	500	73	34	28	40	31	5	14	12	M3	6	19	0,25	1080-29-0610S
	8	8	M20x1,5	12S	630	500	76	41	36	54	40,8	8	18	12	M5	9	27	0,25	1080-29-0812S
	10	10	M22x1,5	14S	630	500	80	41	36	54	40,8	8	18	14	M5	9	27	0,39	1080-29-1014S
	12	12	M24x1,5	16S	400	500	86	41	36	54	40,8	8	18	14	M5	9	30	0,5	1080-29-1316S
	16	12	M30x2	20S	400	500	90	41	36	54	40,8	8	18	16	M5	9	30	0,55	1080-29-1320S
	16	15	M30x2	20S	400	400	90	46	45	65,5	48,5	11	22,5	16	M5	12	32	0,97	1080-29-1620S
	20	20	M36x2	25S	400	315	109	59	55	78	60	11	27,5	18	M6	14	41	1,53	1080-29-2025S
	25	25	M42x2	30S	400	315	120	64	60	83,5	65,5	11	30	20	M6	14	50	1,89	1080-29-2530S
	32	30	M52x2	38S	315	315	153	84	75	102,7	84,2	12	37,5	22	M8	17	60	3,95	1080-29-3238S



1080-45

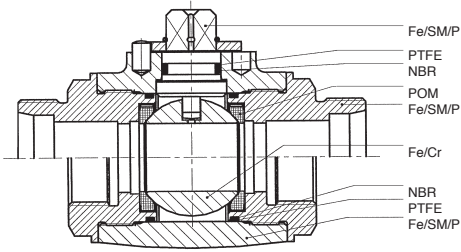
-20/+100°C

Smeedstalen kogelafsluiter
 Vanne à boiss. sph. acier forgé
 Ball valve forged steel
 Kugelhahn Schmiedestahl

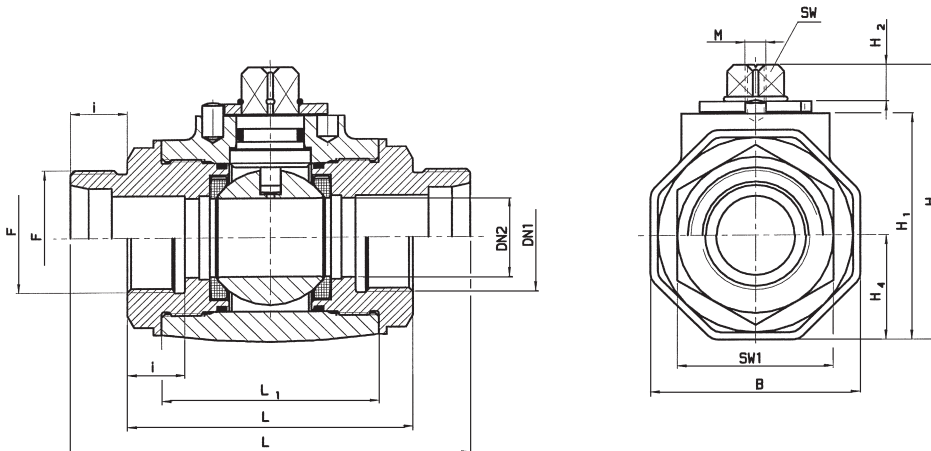


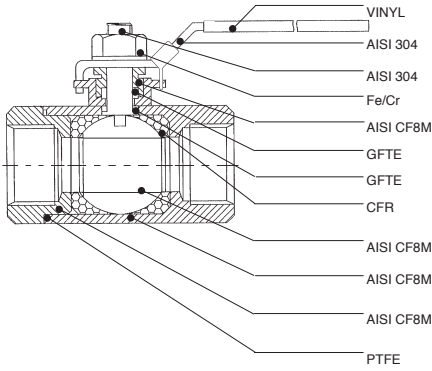
3

Flütec



			F	DIN 2353	BAR DIN 2353	BAR	L	L1	B	H	H1	H2	H4	i	M	SW	SW1	Kg	Fe/SM/P REF.
	DN1	DN2																	
	32	30	G1.1/4			315	110	84	75	102,7	84,2	12	37,5	22	M8	17	60	3,36	1080-45-3220
	40	38	G1.1/2			315	130	91	85	113,7	95,2	12	42,5	24	M8	17	70	4,73	1080-45-4024
	50	48	G2			315	140	100	105	131,2	112,7	12	52,5	26	M8	17	80	6,95	1080-45-5032
	32	30	1.1/4NPTF			315	110	84	75	102,7	84,2	12	37,5	18	M8	17	60	3,36	1080-45-3220N
	40	38	1.1/2NPTF			315	130	91	85	113,7	95,2	12	42,5	18,4	M8	17	70	4,73	1080-45-4024N
	50	48	2NPTF			315	140	100	105	131,2	112,7	12	52,5	19,2	M8	17	80	6,95	1080-45-5032N
	32	30	M45x2	35L	160	315	141	84	75	102,7	84,2	12	37,5	16	M8	17	60	3,71	1080-45-3235L
	40	36	M52x2	42L	160	315	162	91	85	113,7	95,2	12	42,5	16	M8	17	70	5,23	1080-45-4042L
	32	30	M52x2	38S	315	315	153	84	75	102,7	84,2	12	37,5	22	M8	17	60	3,78	1080-45-3238S



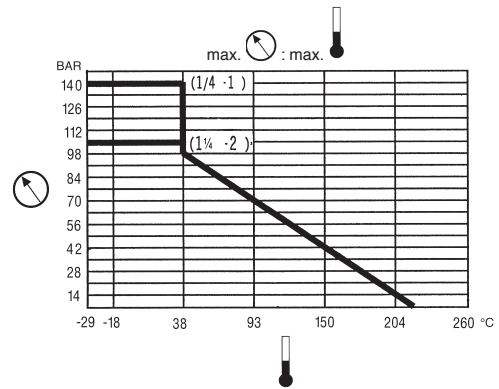
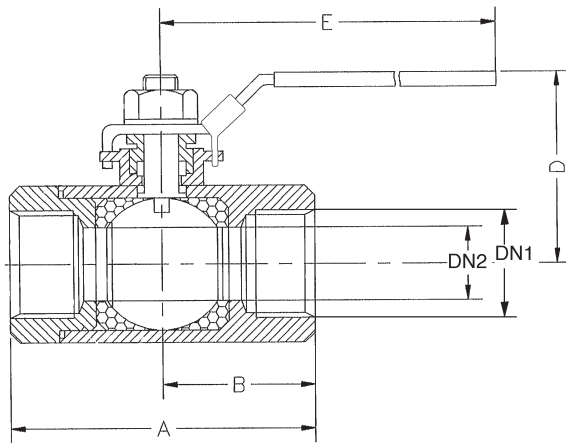


3080-103
LOW PRESSURE
-20/+200°C
RVS Kogelafsluiter
Vanne à boisseau sphérique INOX
Stainless steel ball valve
Edelstahl Kugelhahn

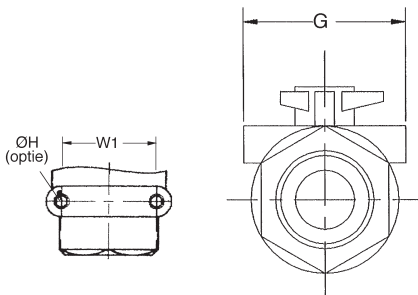


						A	B	D	E	G	H	W1	± Kg	AISI CF8M REF.
	DN1	DN2												
	6	13	Rp1/4	R1/4	140	57	26	51	100	39	3/16-24	28,2	0,25	3080-103-0604
	10	13	Rp3/8	R3/8	140	57	26	51	100	39	3/16-24	28,2	0,30	3080-103-1006
	12	13	Rp1/2	R1/2	140	60	29	51	100	39	3/16-24	28,2	0,30	3080-103-1608
	20	17,5	Rp3/4	R3/4	140	79	38	62	123	46	3/16-24	34,7	0,60	3080-103-2012
	25	22,3	Rp1	R1	140	85	41	67	123	46	3/16-24	34,7	1,00	3080-103-2516
	32	25,6	Rp1.1/4	R1.1/4	100	102	51,5	84	144	50	1/2-20	35,6	1,45	3080-103-3220
	40	32	Rp1.1/2	R1.1/2	100	111	56	89	144	50	1/2-20	35,6	2,15	3080-103-4024
	50	33,3	Rp2	R2	100	137	68	94	180	50	1/2-20	35,6	3,40	3080-103-5032

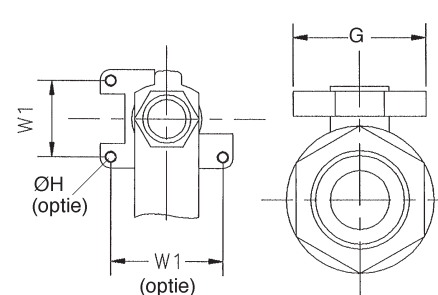
* = 1,5 x



DN1: 6÷25 (1/4÷1)



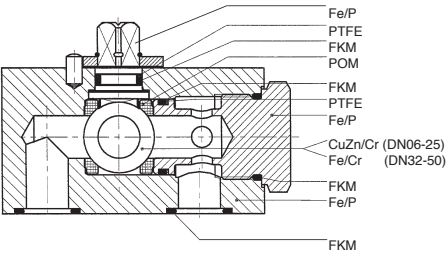
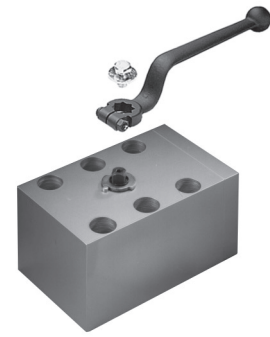
DN1: 32÷50 (1.1/4÷2) ISO 5211



1081-11

-20/+100°C

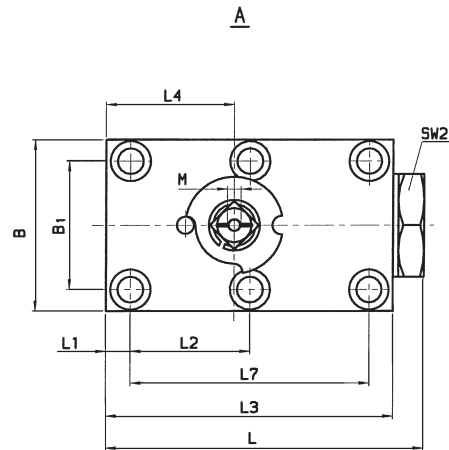
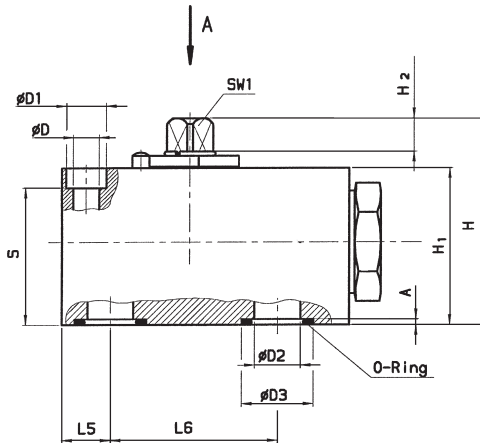
Kogelafsluiter plaatmontage
Vanne pour montage sur plat
Ball valve for manifold mounting
Platten-Kugelhahn



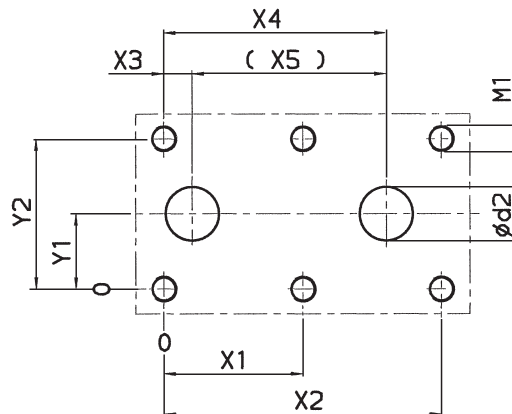
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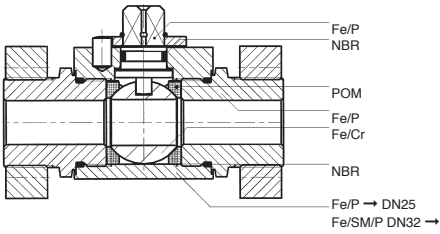
Flutec

↔	↻	DN	Bar	L	L1	L2	L3	L4	L5	L6	L7	B	B1	SW1	SW2	H	H1	H2	D	D1	D2	D3	A	S	M	Kg	Fe/P REF.
		6	500	64	8,5	17,5	59	25	8,5	35	35	40	27	6	22	37,5	30	7	6,6	11	6	11,7	1,6	23	M3	0,6	1081-11-06
		10	315	80	7,5	27,5	70	29	10	44	55	55	40	9	30	58	45	8,5	9	14	9,5	15	2	36	M5	1,25	1081-11-10
		16	315	110	8,5	41,5	100	44,5	17	58	83	60	45	12	36	72,5	55	11	9	14	16	25	2	46	M5	2,44	1081-11-16
		20	315	127	10	48,5	117	51	20	69	97	70	51	14	41	88,5	70	11	10,5	16,5	20	30	2,9	59,5	M6	3,94	1081-11-20
		25	315	145	10	57,5	135	62	24	81	115	80	60	14	50	97,5	80	11	10,5	17	23,5	35	2,9	69	M6	5,86	1081-11-25
		32	315	176	12	68	165	75	29	96	136	100	78	17	65	118,5	100	12	13	19	32	39,4	2,9	84	M8	10,9	1081-11-32
		40	315	205	28,5	56	180	85	28,5	112	112	130	95	17	-	118,5	100	12	17,5	26	38	48,4	2,9	82,5	M8	17,4	1081-11-40
		50	315	245	38	68	220	106	38	136	136	149	112	17	-	129	110	12	22	33	48	55,4	2,9	88,5	M8	24,4	1081-11-50



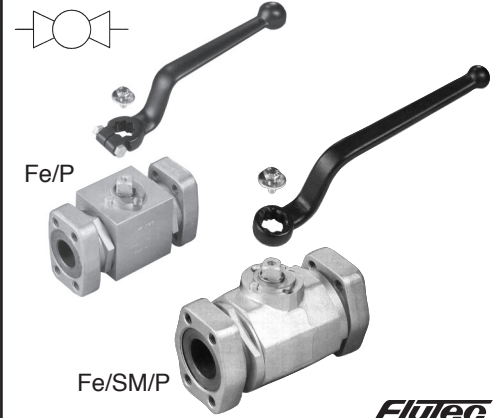
↔	DN	Y1	Y2	X1	X2	X3	X4	X5	d2	M1
	6	13,5	27	17,5	35	0	35	35	6	M6
	10	20	40	27,5	55	2,5	46,5	44	9,5	M8
	16	22,5	45	41,5	83	8,5	66,5	58	16	M8
	20	25,5	51	48,5	97	10	79	69	20	M10
	25	30	60	57,5	115	14	95	81	23,5	M10
	32	39	78	68	136	17	113	96	32	M12
	40	47,5	95	56	112	0	112	112	38	M16
	50	56	112	68	136	0	136	136	48	M20





1082-15
1082-25
-20/+100°C

Kogelafsluiter met contra SAE flens
Vanne avec contre bride SAE
Ball valve with SAE counter flange
Kugelhahn mit SAE Gegenflansch



Flütec

SAE 3000 PSI (ISO CODE 6162 Tab. 1)

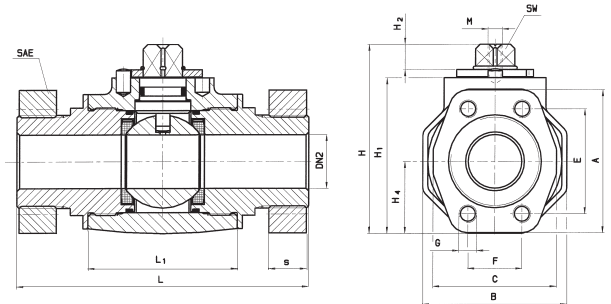
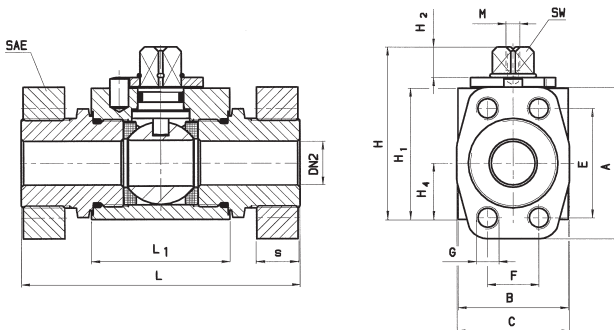
↔	↗																Fe/P REF.
DN2	SAE	BAR	A	C	E	F	G	H	H1	H2	H4	L	L1	M	SW		
13	1/2"	350	57	47	38,1	17,5	M8	62	45	11	19	104	47	M5	12	1082-15-G021	
19	3/4"	350	66	49	47,6	22,3	M10	75	57	11	24,5	121	60	M6	14	1082-15-G027	
25	1"	350	71	53	52,4	26,2	M10	82	64	11	28,5	133	65	M6	14	1082-15-G033	
																Fe/SM/P REF.	
32	1.1/4"	280	80	69	58,7	30,2	M10	103	85	12	37,5	163	83,4	M8	17	1082-15-G042	
38	1.1/2"	210	95	77	69,9	35,7	M12	114	96	12	42,5	168	91	M8	17	1082-15-G049	
48	2"	210	103	89	77,8	42,9	M12	131,5	112,5	12	52,5	186	100	M8	17	1082-15-G060	

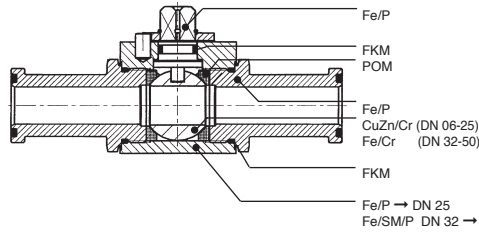
SAE 6000 PSI (ISO CODE 6162 Tab. 2)

↔	↗																Fe/P REF.
DN2	SAE	BAR	A	C	E	F	G	H	H1	H2	H4	L	L1	M	SW		
13	1/2"	400	57	47	40,5	18,2	M8	62	45	11	19	104	47	M5	12	1082-25-G021	
19	3/4"	350	71	53	50,8	23,8	M10	75	57	11	24,5	121	60	M6	14	1082-25-G027	
25	1"	350	80	66	57,2	27,8	M12	82	64	11	28,5	133	65	M6	14	1082-25-G033	
																Fe/SM/P REF.	
32	1.1/4"	350	94	77	66,6	31,8	M14	103	85	12	37,5	163	83,4	M8	17	1082-25-G042	
38	1.1/2"	350	103	89	79,3	36,5	M16	114	96	12	42,5	168	91	M8	17	1082-25-G049	
48	2"	350	135	123	96,8	44,5	M20	131,5	112,5	12	52,5	186	100	M8	17	1082-25-G060	

Fe/P

Fe/SM/P

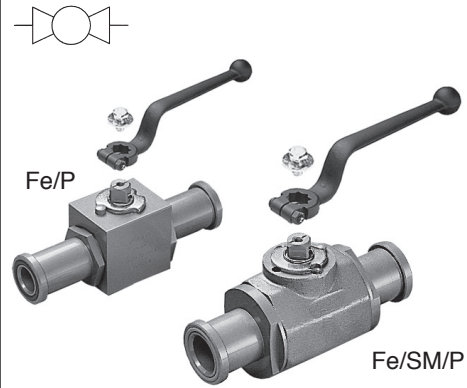




1082-16
1082-26

-20/+100°C

Kogelafsluiter met SAE adapter
Vanne avec adapteur SAE
Ball valve with SAE adapter
Kugelhahn mit SAE Adapter



Fe/SM/P

Flütec

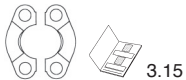
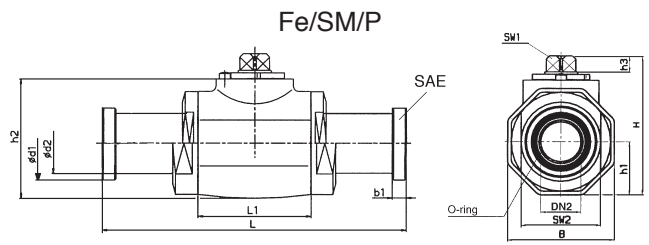
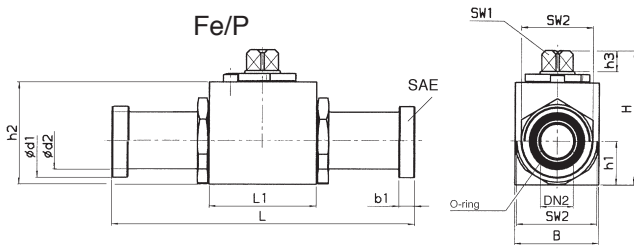
3

SAE J518 3000 PSI (ISO CODE 6162 Tab.1)

↔	↗										
DN2	SAE	BAR	L	b1	d1	d2	SW1	OR	Kg	Fe/P REF.	
19	3/4"	350	170	6,8	38,1	31,5	14	25x3,53	2,1	1082-16-20-G027	
25	1"	350	176,5	8	44,4	38	14	32,9x3,53	2,8	1082-16-25-G033	
										Fe/SM/P REF.	
32	1.1/4"	275	191,4	8	50,8	43	17	37,7x3,53	4,7	1082-16-32-G042	
38	1.1/2"	275	231	8	60,3	50	17	47,2x3,53	6,9	1082-16-40-G049	
48	2"	210	234	9,6	71,4	62	17	56,7x3,53	9,7	1082-16-50-G060	

SAE J518 6000 PSI (ISO CODE 6162 Tab.2)

↔	↗										
DN2	SAE	BAR	L	b1	d1	d2	SW1	OR	Kg	Fe/P REF.	
19	3/4"	350	170	8,8	41,3	32	14	25x3,53	2,5	1082-26-20-G027	
25	1"	350	198,5	9,5	47,6	38	14	32,9x3,53	3,5	1082-26-25-G033	
										Fe/SM/P REF.	
32	1.1/4"	350	223,4	10,3	54	44	17	37,7x3,53	6,4	1082-26-32-G042	
38	1.1/2"	350	281	12,6	63,5	51	17	47,2x3,53	9,7	1082-26-40-G049	
48	2"	350	315	12,6	79,4	67	17	56,7x3,53	14,7	1082-26-50-G060	

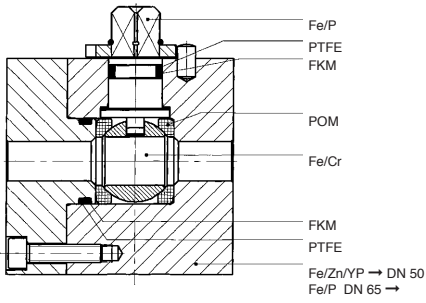


SAE 3000 PSI

↔									
DN2	SAE	L1	H	h1	h2	h3	B	SW2	
19	3/4"	60	75	24,5	57	11	48	41	
25	1"	65	82	28,5	64	11	57	50	
30	1.1/4"	83,4	103	37,5	85	12	75	60	
38	1.1/2"	91	114	42,5	96	12	85	70	
48	2"	100	131,5	52,5	112,5	12	105	80	

SAE 6000 PSI

↔								
DN2	SAE	L1	H	h1	h2	h3	B	SW2
19	3/4"	60	75	24,5	57	11	48	46
25	1"	65	82	28,5	64	11	57	50
30	1.1/4"	83,4	103	37,5	85	12	75	60
38	1.1/2"	91	114	42,5	96	12	85	70
48	2"	100	131,5	52,5	112,5	12	105	80



1082-17

-20/+100°C

Kogelafsluiter met contra SAE flens
 Vanne avec contre bride SAE
 Ball valve with SAE counter flange
 Kugelhahn mit SAE Gegenflansch

COMPACT



Flütec

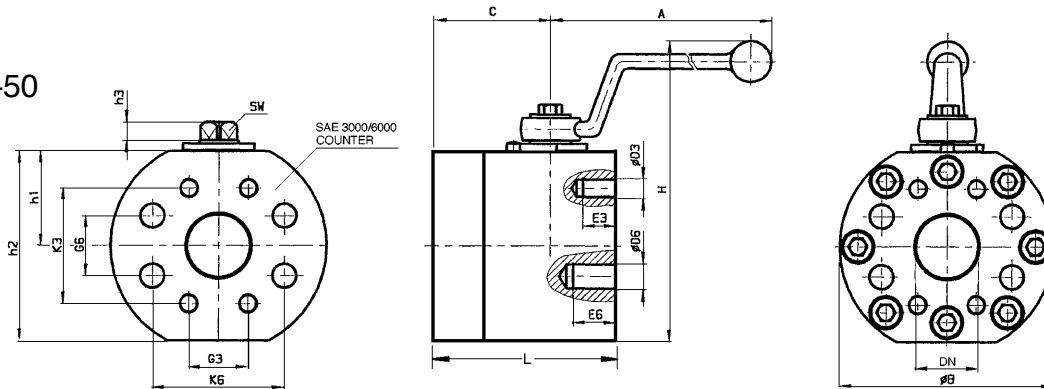
SAE 3000 & 6000 PSI (ISO CODE 6162 Tab.1 & Tab.2)

↔	↻	↔↻ SAE 3000				↔↻ SAE 6000				A	B	C	H	h1	h2	h3	L	SW	O-Ring	Fe/Zn/YP REF.			
		K3	G3	D3	E3	BAR SAE	K6	G6	D6												E6	BAR SAE	
12	1/2"	420	38,1	17,5	M8	16	350	40,5	18,2	M8	16	420	174	79	32,5	129	34	71,5	11	75	12	18,88x3,53	1082-17-G021
20	3/4"	420	47,6	22,3	M10	18	350	50,8	23,8	M10	18	420	174	99	34,3	147	44	90	11	80	14	25x3,53	1082-17-G027
25	1"	420	52,4	26,2	M10	18	350	57,2	27,8	M12	21	420	174	119	38	160	47	102	11	88	14	32,92x3,53	1082-17-G033
32	1.1/4"	420	58,7	30,2	M10	18	280	66,6	31,8	M12	21	420	295	139	44	211	59	124	12	100	17	37,7x3,53	1082-17-G042M12
32	1.1/4"	420	58,7	30,2	M10	18	280	66,6	31,8	M14	21	420	295	139	44	211	59	124	12	100	17	37,7x3,53	1082-17-G042
40	1.1/2"	420	69,6	35,7	M12	20	210	79,3	36,5	M16	26	420	295	160	51	227	65	140	12	110	17	47,22x3,53	1082-17-G049
50	2"	420	77,8	42,9	M12	22	210	96,8	44,4	M20	34	420	295	179	54	244	72,6	156,6	12	116	17	56,74x3,53	1082-17-G060

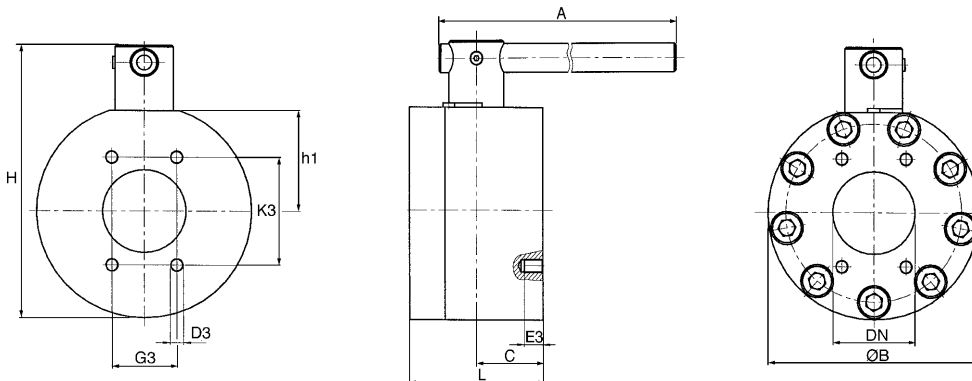
SAE 3000 PSI (ISO CODE 6162 Tab.1)

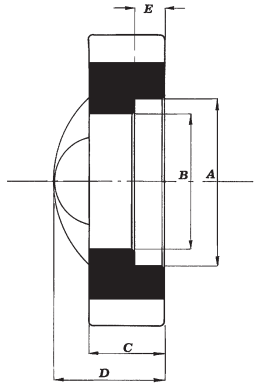
↔	↻	SAE 3000						A	B	C	H	h1	L	Fe/P REF.
		BAR PN	K3	G3	D3	E3	BAR SAE							
65	2.1/2"	160	88,9	50,8	M12	19	600	198	75	260	94	150	1082-17-G076	
80	3"	100	106,4	61,9	M16	24	900	210	70	275	100	140	1082-17-G090	
100	4"	25	130,2	77,8	M16	24	900	258	85	326	122	170	1082-17-G114	
125	5"	25	152,4	92,1	M16	30	900	295	105	381	140	210	1082-17-G140	

DN12÷50



DN65÷125

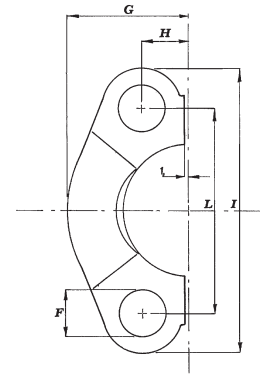




1093-23
1096-23
SPLIT

SAE J518-3000 PSI
SAE J518-6000 PSI

Halve flens
Demi-bride
Split flange
Flanschhälfte

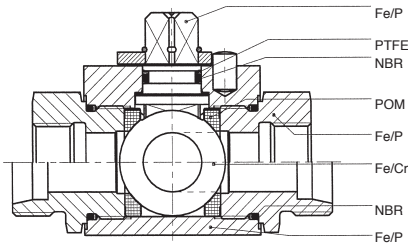


SAE 3000 PSI (ISO CODE 6162 Tab. 1)

SAE	A	B	C	D	E	F	G	H	I	L			Fe/Zn/YP REF.	AISI 316 REF.
											METR.	UNC		
3/4"	38,9	32,1	14	22	6,2	10,5	26	11,1	65	47,6	M10	3/8	1093-23-G027	3093-23-G027
1"	45,2	38,5	16	22	7,5	10,5	29,2	13,1	70	52,4	M10	3/8	1093-23-G033	3093-23-G033
1.1/4"	51,6	43,7	14	22	7,5	12	36,3	15,1	80	58,7	-	7/16	1093-23-G042	3093-23-G042
1.1/4"	51,6	43,7	14	22	7,5	10,5	36,3	15,1	80	58,7	M10	-	1093-23-G042A	3093-23-G042A
1.1/4"	51,6	43,7	14	22	7,5	12,5	36,3	15,1	80	58,7	M12	-	1093-23-G042B	3093-23-G042B
1.1/2"	61,1	50,8	16	24	7,5	13,5	41,1	17,9	94	69,9	M12	1/2	1093-23-G049	3093-23-G049
1.1/2"	61,1	50,8	16	24	7,5	14,5	41,1	17,9	94	69,9	M14	-	1093-23-G049B	3093-23-G049B
2"	72,2	62,7	16	26	9	13,5	48,2	21,4	102	77,8	M12	1/2	1093-23-G060	3093-23-G060
2"	72,2	62,7	16	26	9	14,5	48,2	21,4	102	77,8	M14	-	1093-23-G060B	3093-23-G060B

SAE 6000 PSI (ISO CODE 6162 Tab. 2)

SAE	A	B	C	D	E	F	G	H	I	L			Fe/Zn/YP REF.	AISI 316 REF.
											METR.	UNC		
3/4"	42	32,5	19	28	8,3	10,5	30	11,9	72	50,8	M10	3/8	1096-23-G027	3096-23-G027
1"	48,4	38,9	24	32	9	13	35	13,9	81	57,2	M12	7/16	1096-23-G033	3096-23-G033
1.1/4"	54,8	44,5	27	38	9,8	15	39	15,9	96	66,7	M14	1/2	1096-23-G042	3096-23-G042
1.1/2"	64,3	51,6	30	42	12,1	17	48	18,3	113	79,4	M16	5/8	1096-23-G049	3096-23-G049
2"	80,2	67,6	37	52	12,1	21	57	22,2	134	96,8	M20	3/4	1096-23-G060	3096-23-G060

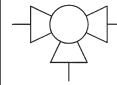


1083-02 (NA) 1083-12 (ADA)

-20/+100°C

3-weg kogelafsluiter
Vanne à 3 voies
3-way ball valve
3-Wege Kugelhahn

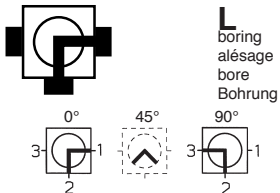
COMPACT



FluTec

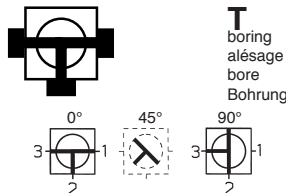
Symbol	DN		F	DIN 2353	L	SW1	i	M	Kg	BAR DIN 2353	TYPE NA		TYPE ADA		
	DN1	DN2									BAR PN1	BAR PN2	Fe/P REF.*	BAR PN1	Fe/P REF.*
BSPB	4	6	G1/8		69	19	10	M3	0,36		500	100	1083-02-0402-03	500	1083-12-0402-XX
	6	6	G1/4		69	22	14	M3	0,35		500	100	1083-02-0604-03	500	1083-12-0604-XX
	10	10	G3/8		72	27	14	M5	0,57		400	100	1083-02-1006-03	400	1083-12-1006-XX
	12	12	G1/2		83	30	16	M5	0,72		400	100	1083-02-1308-03	400	1083-12-1308-XX
	20	20	G3/4		95	41	18	M5	1,73		315	70	1083-02-2012-03	315	1083-12-2012-XX
	25	25	G1		113	50	20,5	M6	2,52		250	70	1083-02-2516-03	250	1083-12-2516-XX
32	25	G1.1/4		120	50	22	M6	2,36		250	70	1083-02-2520-03	250	1083-12-2520-XX	
NPTF	6	6	1/4NPTF		69	22	10,2	M3	0,35		500	100	1083-02-0604N-03	500	1083-12-0604N-XX
	10	10	3/8NPTF		72	27	10,4	M5	0,59		400	100	1083-02-1006N-03	400	1083-12-1006N-XX
	12	12	1/2NPTF		83	30	13,6	M5	0,72		400	100	1083-02-1308N-03	400	1083-12-1308N-XX
	20	20	3/4NPTF		95	41	13,7	M5	1,75		315	70	1083-02-2012N-03	315	1083-12-2012N-XX
	25	25	1NPTF		113	50	17,3	M6	2,56		250	70	1083-02-2516N-03	250	1083-12-2516N-XX
	32	25	1.1/4NPTF		120	50	18	M6	2,36		250	70	1083-02-2520N-03	250	1083-12-2520N-XX
CEL 24°	4	4	M12x1,5	6L	67	19	10	M3	0,33	315	500	100	1083-02-0406L-03	500	1083-12-0406L-XX
	6	6	M14x1,5	8L	67	19	10	M3	0,33	315	500	100	1083-02-0608L-03	500	1083-12-0608L-XX
	8	8	M16x1,5	10L	74	27	11	M5	0,52	315	400	100	1083-02-0810L-03	400	1083-12-0810L-XX
	10	10	M18x1,5	12L	74	27	11	M5	0,52	315	400	100	1083-02-1012L-03	400	1083-12-1012L-XX
	12	12	M22x1,5	15L	82	30	12	M5	0,66	315	400	100	1083-02-1315L-03	400	1083-12-1315L-XX
	16	12	M26x1,5	18L	82	30	12	M5	0,66	315	400	100	1083-02-1318L-03	400	1083-12-1318L-XX
	16	15	M26x1,5	18L	82	32	12	M5	0,97	315	315	100	1083-02-1618L-03	315	1083-12-1618L-XX
	20	19	M30x2	22L	101	41	14	M6	1,65	160	315	70	1083-02-2022L-03	315	1083-12-2022L-XX
	25	24	M36x2	28L	108	50	14	M6	2,14	160	250	70	1083-02-2528L-03	250	1083-12-2528L-XX
	32	25	M45x2	35L	112	50	16	M6	2,36	160	250	70	1083-02-2535L-03	250	1083-12-2535L-XX
CES 24°	4	5	M16x1,5	8S	73	19	12	M3	0,35	630	500	100	1083-02-0408S-03	500	1083-12-0408S-XX
	6	6	M18x1,5	10S	73	19	12	M3	0,35	630	500	100	1083-02-0610S-03	500	1083-12-0610S-XX
	8	8	M20x1,5	12S	76	27	12	M5	0,54	630	400	100	1083-02-0812S-03	400	1083-12-0812S-XX
	10	10	M22x1,5	14S	80	27	14	M5	0,57	630	400	100	1083-02-1014S-03	400	1083-12-1014S-XX
	12	12	M24x1,5	16S	86	30	14	M5	0,67	400	400	100	1083-02-1316S-03	400	1083-12-1316S-XX
	16	12	M30x2	20S	90	30	16	M5	0,72	400	400	100	1083-02-1320S-03	400	1083-12-1320S-XX
	16	15	M30x2	20S	90	32	16	M5	1,03	400	315	100	1083-02-1620S-03	315	1083-12-1620S-XX
	20	20	M36x2	25S	109	41	18	M6	1,7	400	315	70	1083-02-2025S-03	315	1083-12-2025S-XX
	25	25	M42x2	30S	120	50	20	M6	2,27	400	250	70	1083-02-2530S-03	250	1083-12-2530S-XX
	32	25	M52x2	38S	124	55	22	M6	2,36	315	250	70	1083-02-2538S-03	250	1083-12-2538S-XX

TYPE NA + ADA



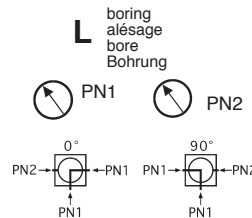
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*REF. 1083-12-.....-03

TYPE ADA

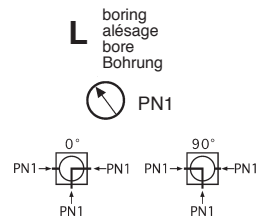


*REF. 1083-12-.....-04

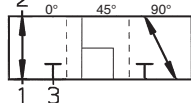
TYPE NA REF. 1083-02-



TYPE ADA REF. 1083-12-

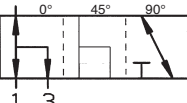


SYMBOL 03 (3/2)

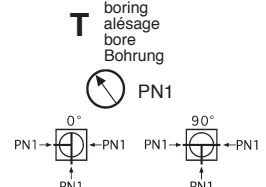


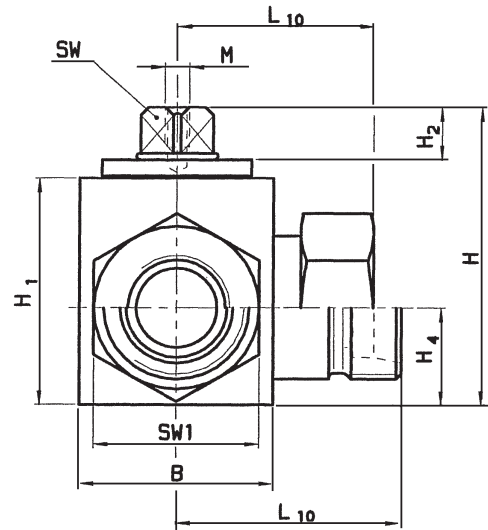
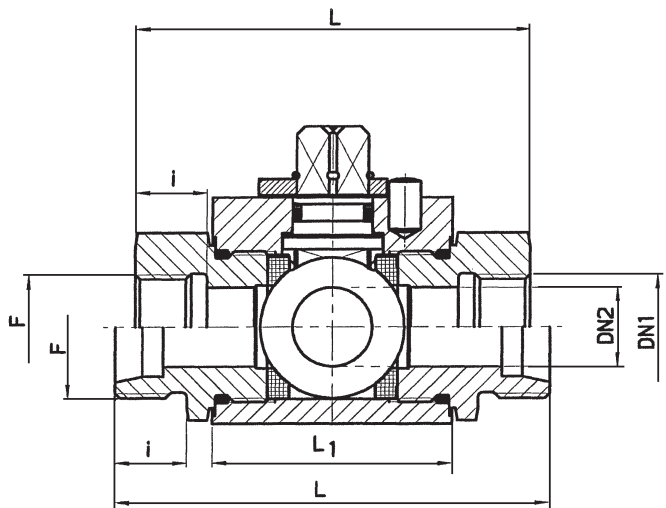
Negative overlapping
Chevauchement négatif
Negative overlapping
Negative Überdeckung

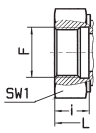
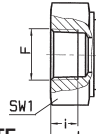
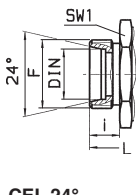
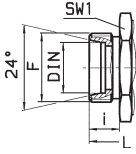
SYMBOL 04 (3/2)

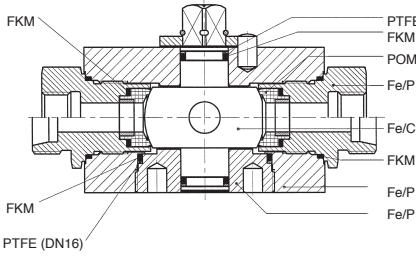


1) Geen functionele stand
Position non fonctionnel
Undefined switching position
Undefinierte Schaltstellung





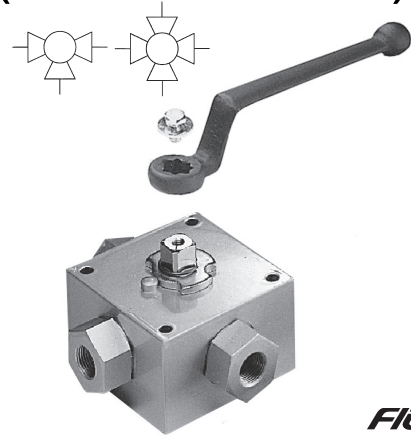
	↔		F	DIN 2353	L	L1	L10	B	H	H1	H2	H4	SW
	DN1	DN2											
 BSPP	4	6	G1/8		69	35	34,5	25	39	30	5	13	6
	6	6	G1/4		69	35	34,5	25	39	30	5	13	6
	10	10	G3/8		72	42	36	32	53	40	8	17	9
	12	12	G1/2		83	47	41,5	35	53	40	8	17	9
	20	20	G3/4		95	60	47,5	48	75	57	11	24,5	14
	25	25	G1		113	65	56,5	57	82	64	11	28,5	14
32	25	G1.1/4		120	65	60	57	82	64	11	28,5	14	
 NPTF	6	6	1/4NPTF		69	35	34,5	25	39	30	5	13	6
	10	10	3/8NPTF		72	42	36	32	53	40	8	17	9
	13	12	1/2NPTF		83	47	41,5	35	53	40	8	17	9
	20	20	3/4NPTF		95	60	47,5	48	75	57	11	24,5	14
	25	25	1NPTF		113	65	56,5	57	82	64	11	28,5	14
	32	25	1.1/4NPTF		120	65	60	57	82	64	11	28,5	14
 CEL 24°	4	4	M12x1,5	6L	67	35	33,5	25	39	30	5	13	6
	6	6	M14x1,5	8L	67	35	33,5	25	39	30	5	13	6
	8	8	M16x1,5	10L	74	42	37	32	53	40	8	17	9
	10	10	M18x1,5	12L	74	42	37	32	53	40	8	17	9
	12	12	M22x1,5	15L	82	47	41	35	53	40	8	17	9
	16	12	M26x1,5	18L	82	47	41	35	53	40	8	17	9
	16	15	M26x1,5	18L	82	47	41	38	62	45	11	19	12
	20	19	M30x2	22L	101	60	50,5	48	75	57	11	24,5	14
	25	24	M36x2	28L	108	65	54	57	82	64	11	28,5	14
	32	25	M45x2	35L	112	65	56	57	82	64	11	28,5	14
 CES 24°	4	5	M16x1,5	8S	73	35	36,5	25	39	30	5	13	6
	6	6	M18x1,5	10S	73	35	36,5	25	39	30	5	13	6
	8	8	M20x1,5	12S	76	42	38	32	53	40	8	17	9
	10	10	M22x1,5	14S	80	42	40	32	53	40	8	17	9
	12	12	M24x1,5	16S	86	47	43	35	53	40	8	17	9
	16	12	M30x2	20S	90	47	45	35	53	40	8	17	9
	16	15	M30x2	20S	90	47	45	38	62	45	11	19	12
	20	20	M36x2	25S	109	60	54,5	48	75	57	11	24,5	14
	25	25	M42x2	30S	120	65	60	57	82	64	11	28,5	14
	32	25	M52x2	38S	124	65	62	57	82	64	11	28,5	14



1083-51 (ADA)
1084-51 (ADA)

-20/+100°C

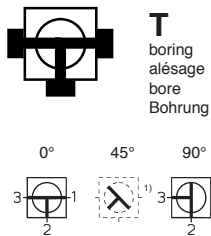
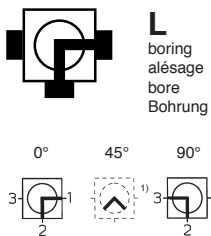
3-weg / 4-weg kogelafsluiter
Vanne à 3 voies et 4 voies
3-way / 4-way ball valve
3-Wege / 4-Wege Kugelhahn



Flütec

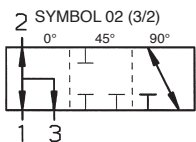
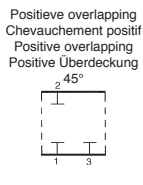
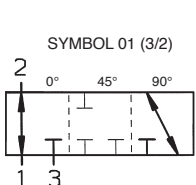
			F				L	SW1	i	M	Kg				
	DN1	DN2													
	4	5	G1/8			500	100	24	10	M5	1,87				
	6	5	G1/4			500	100	24	14	M5	1,76				
	10	9	G3/8			500	115	30	14	M6	2,76				
	12	12	G1/2			400	135	36	16	M6	4,86				
	20	18	G3/4			315	144	46	18	M8	6,25				
	6	5	1/4NPTF			500	100	24	10,2	M5	1,87				
	10	9	3/8NPTF			500	115	30	10,4	M6	2,86				
	12	12	1/2NPTF			400	135	36	13,6	M6	4,86				
	20	18	3/4NPTF			315	144	46	13,7	M8	6,25				
	4	5	M12x1,5	6L	315	500	105	24	10	M5	1,8				
	6	5	M14x1,5	8L	315	500	105	24	10	M5	1,8				
	8	9	M16x1,5	10L	315	500	114	30	11	M6	2,56				
	10	9	M18x1,5	12L	315	500	114	30	11	M6	2,56				
	12	12	M22x1,5	15L	315	400	136	36	12	M6	4,46				
	16	12	M26x1,5	18L	315	400	136	36	12	M6	4,46				
	20	18	M30x2	22L	160	315	143	46	14	M8	6,23				
	20	18	M30x2	22L	160	315	143	46	14	M8	6,23				
	4	5	M16x1,5	8S	630	500	105	24	12	M5	1,8				
	6	5	M18x1,5	10S	630	500	105	24	12	M5	1,8				
	8	9	M20x1,5	12S	630	500	116	30	12	M6	2,56				
	10	9	M22x1,5	14S	630	500	120	30	14	M6	2,56				
	12	12	M24x1,5	16S	630	400	140	36	14	M6	4,46				
	16	12	M30x2	20S	400	400	144	36	16	M6	4,46				
	20	18	M36x2	25S	400	315	151	46	18	M8	6,23				
	20	18	M36x2	25S	400	315	151	46	18	M8	6,23				

3-WEG / 3-VOIES / 3-WAY / 3-WEGE

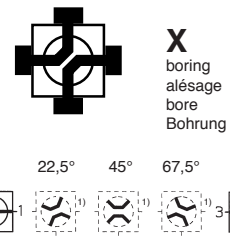
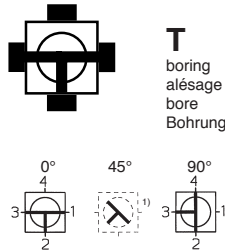


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*REF. XX= 02

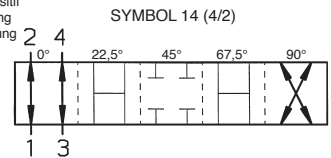
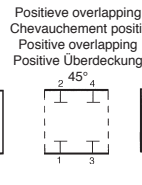
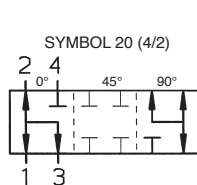


4-WEG / 4-VOIES / 4-WAY / 4-WEGE

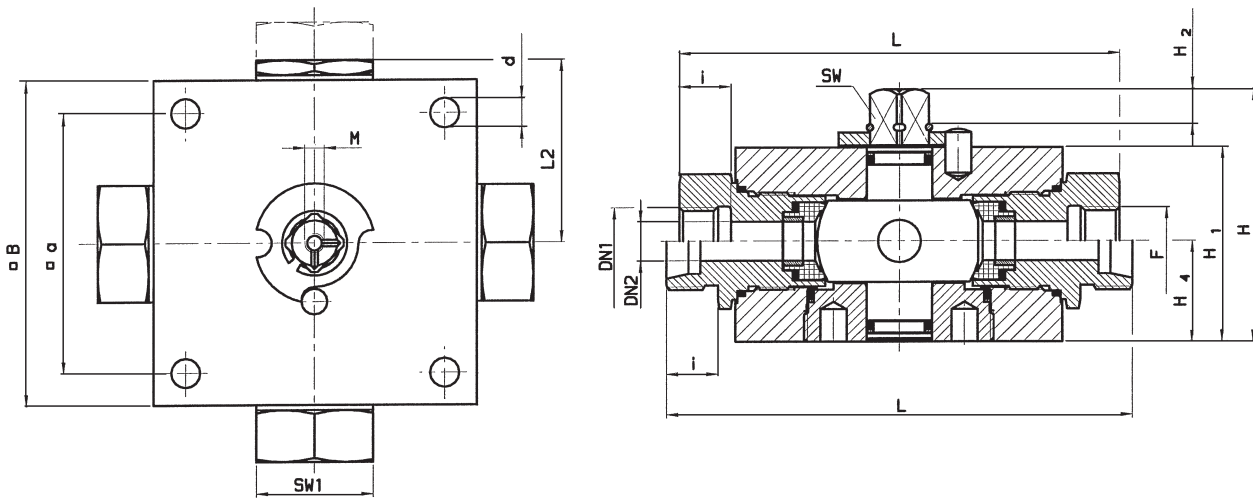





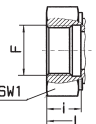
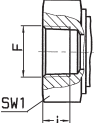
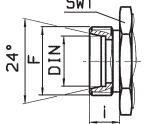
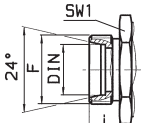
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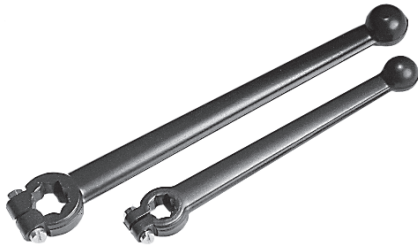


1) Geen functionele stand
Position non fonctionnel
Undefined switching position
Undefinierte Schaltstellung



			F		L	B	L2	a	H	H1	H2	H4	d	SW
	DN1	DN2												
 BSPP	4	5	G1/8		100	70	42,5	55	57	40	11	22	6,5	12
	6	5	G1/4		100	70	42,5	55	57	40	11	22	6,5	12
	10	9	G3/8		115	80	46	65	67,5	50	11,5	27	6,5	14
	12	12	G1/2		135	100	56	80	77,5	60	11,5	31	9	14
	20	18	G3/4		144	100	58	85	92	73	11,5	36	9	17
 NPTF	6	5	1/4NPTF		100	70	42,5	55	57	40	11	22	6,5	12
	10	9	3/8NPTF		115	80	46	65	67,5	50	11,5	27	6,5	14
	12	12	1/2NPTF		135	100	56	80	77,5	60	11,5	31	9	14
	20	18	3/4NPTF		144	100	58	85	92	73	11,5	36	9	17
 CEL 24°	4	5	M12x1,5	6L	105	70	42,5	55	57	40	11	22	6,5	12
	6	5	M14x1,5	8L	105	70	42,5	55	57	40	11	22	6,5	12
	8	9	M16x1,5	10L	114	80	46	65	67,5	50	11,5	27	6,5	14
	10	9	M18x1,5	12L	114	80	46	65	67,5	50	11,5	27	6,5	14
	12	12	M22x1,5	15L	136	100	56	80	77,5	60	11,5	31	9	14
	16	12	M26x1,5	18L	136	100	56	80	77,5	60	11,5	31	9	14
 CES 24°	20	18	M30x2	22L	143	100	58	85	92	73	11,5	36	9	17
	4	5	M16x1,5	8S	105	70	42,5	55	57	40	11	22	6,5	12
	6	5	M18x1,5	10S	105	70	42,5	55	57	40	11	22	6,5	12
	8	9	M20x1,5	12S	116	80	46	65	67,5	50	11,5	27	6,5	14
	10	9	M22x1,5	14S	120	80	46	65	67,5	50	11,5	27	6,5	14
	12	12	M24x1,5	16S	140	100	56	80	77,5	60	11,5	31	9	14
	16	12	M30x2	20S	144	100	56	80	77,5	60	11,5	31	9	14
20	18	M36x2	25S	151	100	58	85	92	73	11,5	36	9	17	

3



1086

Hendel
Clé
Handle
Hebel



FluTec

	SW	K	H	h	Kg	ZnAlCu REF.
Hendel Clé Handle Schlüssel 	9	150	-	10	0,09	1086-2-09
						Al REF.
	12	175	-	12	0,07	1086-2-12
	14	200	-	13	0,1	1086-2-14
	17	240	-	14	0,12	1086-2-17
Hendel Clé Handle Schlüssel 						ZnAlCu REF.
	6	76	27	6	0,03	1086-3-06
	9	108	28	9,5	0,05	1086-3-09
						Fe/Zn REF.
	12	169	59	12,5	0,27	1086-3-12
	14	169	59	12,5	0,26	1086-3-14
17	210	80	14	0,35	1086-3-17	
Hendel Clé Handle Schlüssel 						Al REF.
	9	156	49	28	0,05	1086-4-09
	12	173	52	32	0,27	1086-4-12
	14	218	52	36	0,26	1086-4-14
	17	300	61	44	0,35	1086-4-17

Aanslagschijf Disque d'arrêt Stop disc Anschlagscheibe 	SW	Fe/Zn REF.		SW	Fe/Zn REF.
	0° blokkeerfunctie fonction de blocage detent function Arretierfunktion	6		1086-06-90	0° blokkeerfunctie fonction de blocage detent function Arretierfunktion
	9	1086-09-90		12	1086-12-180
	12	1086-12-90		14	1086-14-180
	14	1086-14-90		17	1086-17-180
	17	1086-17-90			

ATZ Aandrijftechniek B.V. (026-3112611)

Speciale kogelboringen/schakelposities
 Perçages et positions specials
 Special ball drilling / switching positions
 Bohrungsformen und Schaltpositionen

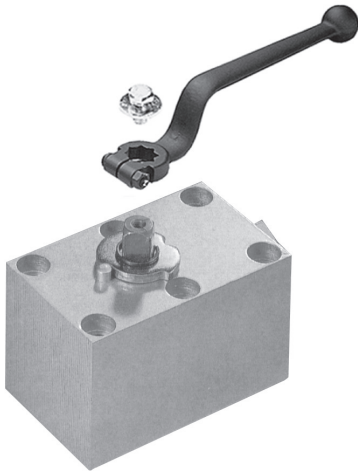
Type	Symbol nr.	Blokkering Blocage Detent Arreterierung	Symbol/Symbol	Positie/Position										
3-WEG/VOIES/WAY/WEGE														
3/3	01A	45°		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°							
0°	45°	90°												
3/3	02A	45°		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°							
0°	45°	90°												
3/3	10	—		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> <td style="text-align: center;">135°</td> <td style="text-align: center;">180°</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°	135°	180°					
0°	45°	90°	135°	180°										
3/3	11	—		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> <td style="text-align: center;">135°</td> <td style="text-align: center;">180°</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°	135°	180°					
0°	45°	90°	135°	180°										
3/3	12	—		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> <td style="text-align: center;">135°</td> <td style="text-align: center;">180°</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°	135°	180°					
0°	45°	90°	135°	180°										
4-WEG/VOIES/WAY/WEGE														
4/3	14A	45°		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">22,5°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">67,5°</td> <td style="text-align: center;">90°</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	0°	22,5°	45°	67,5°	90°					
0°	22,5°	45°	67,5°	90°										
4/2	15	—		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">22,5°</td> <td style="text-align: center;">45°</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	0°	22,5°	45°							
0°	22,5°	45°												
4/3	20A	45°		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°							
0°	45°	90°												
4/3	24	—		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> <td style="text-align: center;">135°</td> <td style="text-align: center;">180°</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°	135°	180°					
0°	45°	90°	135°	180°										
4/3	25	—		<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">0°</td> <td style="text-align: center;">45°</td> <td style="text-align: center;">90°</td> <td style="text-align: center;">135°</td> <td style="text-align: center;">180°</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	0°	45°	90°	135°	180°					
0°	45°	90°	135°	180°										

Geen functionele stand
 Position non fonctionnel
 Undefined switching position
 Undefinierte Schaltstellung

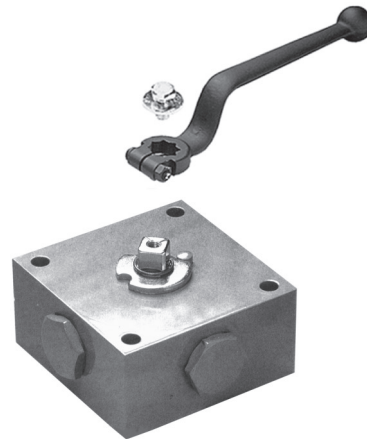
Kogelafsluiters
Vannes à boisseau sphériques
Ball valves
Kugelhähne



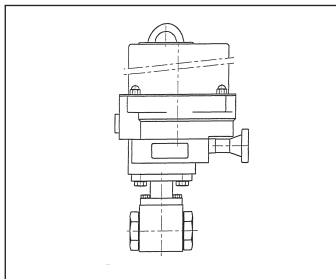
3-weg kogelafsluiter plaatmontage
 Vanne à 3 voies pour montage sur plat
 3-way ball valve for manifold mounting
 3-Wege Platten Kugelhahn



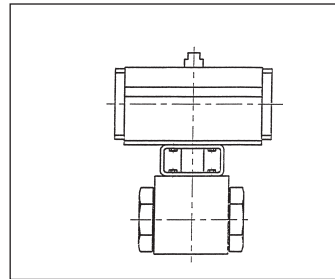
3-weg / 4-weg kogelafsluiter plaatmontage
 Vanne à 3 et 4 voies pour montage sur plat
 3-way / 4-way ball valve for manifold mounting
 3-Wege / 4-Wege Platten Kugelhahn



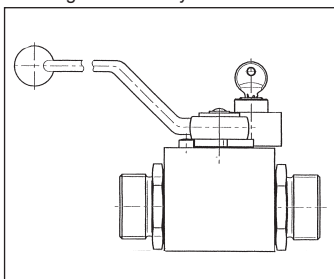
Kogelkraan elektrisch aangedreven
 Vanne actionnement électrique
 Ball valve with electric actuator
 Kugelhahn mit elektrischem Antrieb



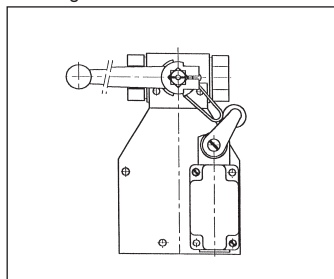
Kogelkraan pneumatisch aangedreven
 Vanne actionnement pneumatique
 Ball valve with pneumatic actuator
 Kugelhahn mit pneumatischem Antrieb



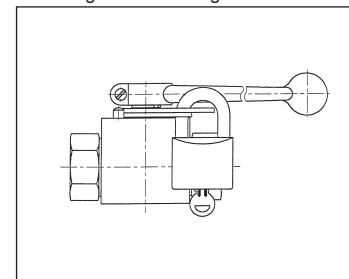
Kogelkraan met cilinderslot
 Vanne avec serrure à cylindre
 Ball valve with cylinder lock
 Kugelhahn mit Zylinderschloss

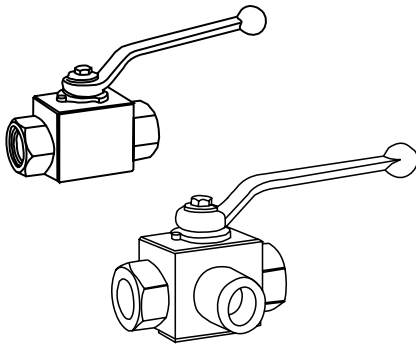


Kogelkraan met eindschakelaar
 Vanne avec micro interrupteur
 Ball valve with micro switch
 Kugelhahn mit Endschalter



Kogelkraan met hangslot
 Vanne avec cadenas
 Ball valve with pad lock
 Kugelhahn mit Bügelschloss





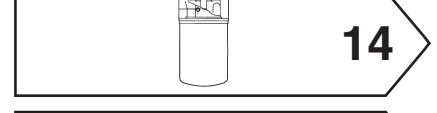
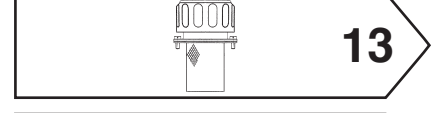
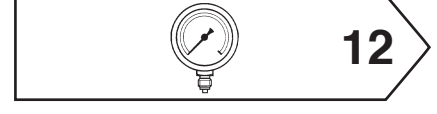
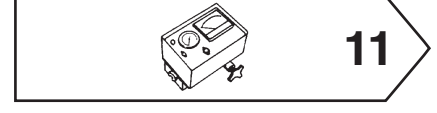
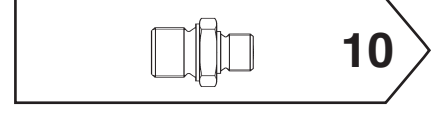
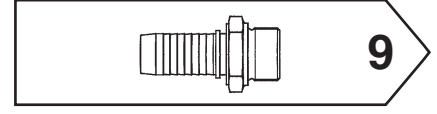
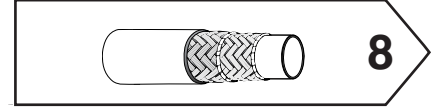
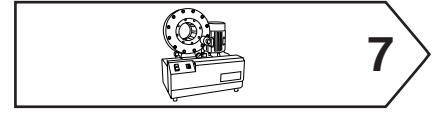
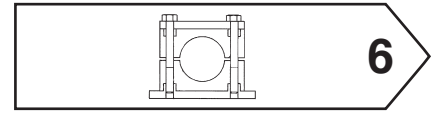
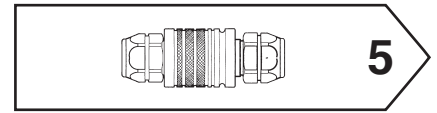
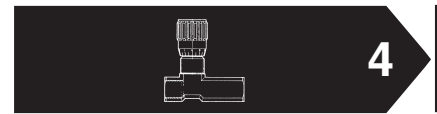
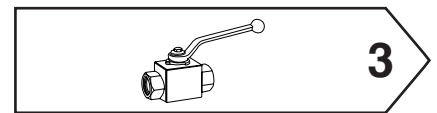
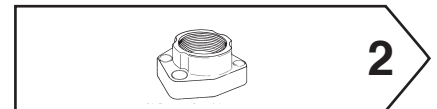
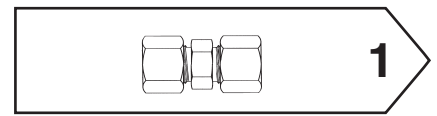
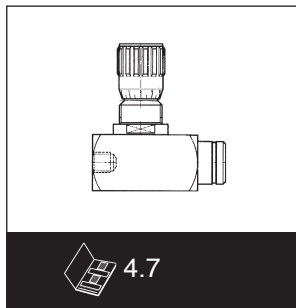
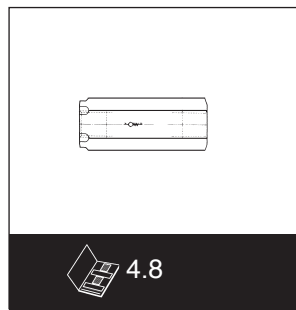
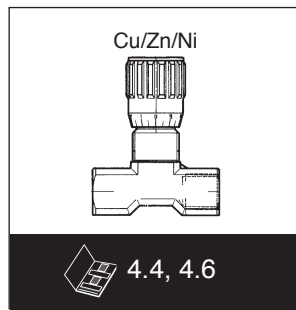
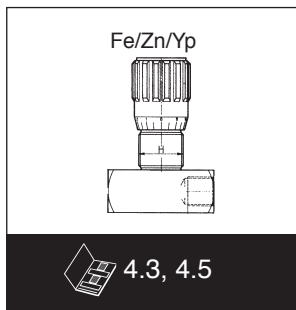
**Algemene informatie
Informations générales
General information
Allgemeine Information**

**Kogelafsluiters
Vannes à boisseau sphérique
Ball valves
Kugelhähne**

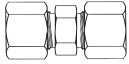


<p>Toepassing: Voor gebruik in hydraulische systemen met hydrauliek vloeistoffen op minerale- en glycolbasis, lucht, niet agressieve gassen en water met anti-corrosie toevoegingen. Op aanvraag leverbaar voor speciale toepassingen, met opgave van: medium, druk, temperatuur, aansluiting, doorlaat, etc. Kogelkranen mogen niet als regelventiel gebruikt worden, daarom altijd in volledig open of gesloten stand gebruiken.</p> <p>Materialen: Huis is van staal, smeedstaal of roestvaststaal. Standaard uitvoering is staal, zwart gefosfateerd. Op aanvraag staal verzinkt-geel gepassiveerd. De kogels worden standaard uitgevoerd in staal- of messing verchroomd. De schakelas is van staal en voorzien van een aanslagschijf. Standaard wordt een gebogen zinken hendel gemonteerd geleverd t/m DN 16, daarboven ongemonteerd.</p> <p>Afdichtingen: Standaard zijn de kogelafdichtingen van Poly-Oxy-Methyleen (POM) en de asafdichtingen van NBR. Hiernaast zijn afdichtingen van bijvoorbeeld: Viton, PTFE, EP. etc. op aanvraag leverbaar.</p> <p>Keuringen: Op aanvraag kunnen de kranen met keuringsdocument worden geleverd volgens EN 10204 of DVWG goedkeuring.</p> <p>Veiligheidsfactor: Proefdruk is 2x werkdruk, minimum barstdruk is 3x werkdruk.</p>	<p>Applications: Pour utilisation dans les systèmes hydrauliques à base d'huiles minérales ou de glycols, d'air, de gaz non-agressif et d'eau additionnée de produits anti-corrosifs. Pour applications spéciales, livrable sur demande, veuillez donner les informations du produit à véhiculer, la pression, la température, le filetage et le diamètre etc. Les vannes à boisseau sphérique ne peuvent pas être utilisées comme vanne d'étranglement, pour cette raison, utiliser uniquement en position ouverte ou fermée.</p> <p>Matières: Les corps sont en acier, acier forgé ou acier inoxydable. Les corps standards en acier sont phosphatés. Sur demande en acier zingué. Les boisseaux en exécution standard sont en acier ou laiton chromé avec un axe d'inversion en acier et un disque de fin de course est monté. En version standard les vannes sont livrées avec une clé en zinc courbée jusqu'au DN16. Les dimensions supérieures sont livrées non-montées.</p> <p>Étanchéités: L'étanchéité du boisseau est en général à base de Poly-Oxy-Méthylène (POM) et l'étanchéité de l'axe est en NBR. Nous pouvons également livrer sur demande des étanchéités à base de: Viton, PTFE., EP.</p> <p>Approbations: Sur demande nous pouvons livrer les vannes avec certificats d'inspection d'après la norme EN 10204 ou l'approbation DVWG.</p> <p>Coëff. de sécurité: Pression de travail x 2 = pression d'épreuve. Pression d'éclatement minimum = pression de travail x 3.</p>
<p>Application: For use in hydraulic systems with hydraulic liquids on a mineral- and glycol basis, air, non-aggressive gasses and water with anti-oxidant additions. Special applications, available on request with indication of: medium, pressure, temperature, connections, flow rate etc. Ball valves are not designed to be used as flow control valves, therefore they should always be either fully open or fully closed in order to avoid damage to the ball sealings.</p> <p>Types of material: Body can be supplied in steel, forged steel C35 or stainless steel. Standard execution of body is steel, black phosphated. On request yellow zinc plated steel body available. The balls are standard executed in steel or brass chrome plated. The stem is in steel with a stop disc. Standard the valves are supplied with a bended, zinc handle mounted up to DN 16, thereafter unmounted.</p> <p>Seals: The ball seals are standard in Poly-Oxy-Methylene (POM), other seals in Perbunan. Seals made from Viton, PTFE., EP. etc. are available on request.</p> <p>Inspections: Valves can be supplied with inspection documents according to EN 10204 or DVWG approval.</p> <p>Safety factor: Test pressure is 2x working pressure, minimum burst pressure is 3x working pressure.</p>	<p>Anwendung: Für Einsatz in hydraulischen Systemen mit Hydraulik-Flüssigkeiten auf Mineralöl- und Glycolbasis. Für Luft und Wasser Edelstahl-Innenteile bzw. komplett Edelstahl. Sonderausführungen auf Anfrage lieferbar mit Angabe von: Medium, Druck, Temperatur, Anschlüsse, Durchgang usw. Kugelhähne eignen sich von der Bauart her nicht als Drosselventile, sie müssen daher um eine Zerstörung der Dichtschalen zu vermeiden, stets bis zum Anschlag geschaltet werden.</p> <p>Material: Gehäuse lieferbar in Stahl, Schmiedestahl C35 oder rostfreiem Stahl. Standard Ausführung: Stahl phosphatiert. Auf Anfrage Stahl gelb verzinkt. Kugel standardmässig aus Stahl- oder Messing verchromt. Schaltwelle aus Stahl mit Anschlagscheibe. Standard Ausführung mit gekrüppften Hebel aus Zinkdruckguß, montiert bis DN 16.</p> <p>Dichtungen: Die Kugeldichtschalen sind standard von Poly-Oxy-Methylen (POM) und die Stahlwellendichtungen von NBR. Auch sind Dichtungen aus zum Beispiel: Viton, PTFE, EP. usw. auf Anfrage lieferbar.</p> <p>Prüfungen: Auf Anfrage können die Kugelhähne mit Prüfbescheinigung gemäss EN 10204 und DVGW-Zulassung, je nach Werkstoff geliefert werden.</p> <p>Sicherheitsfaktor: Prüfdruck ist 2x Betriebsdruck, mindest Platzdruck = 3x Betriebsdruck.</p>

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1



2



3

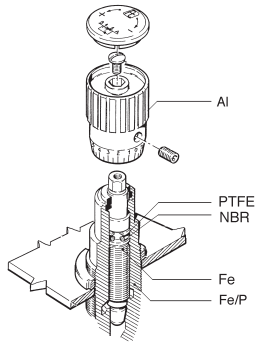




aanbevolen
recommandé
recommended
empfohlen



max. P25 µm

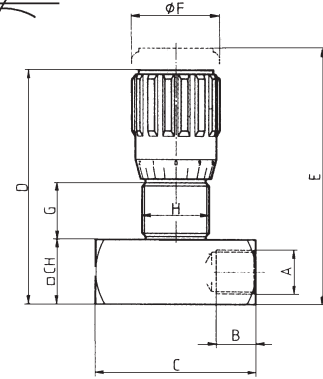


7602-10









-20/+100°C

Smooklep
Vanne d'étranglement
Throttle valve
Drosselventil



4

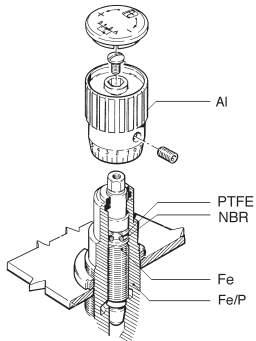
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G1/8	8,5	38	59	64	22	13,5	M17x1	16	0,11	3,9	400	1600	10	7602-10-02
G1/4	12,5	49	71	78	27	17	M20x1	20	0,20	4,9	400	1600	15	7602-10-04
G3/8	12,5	59	84	93	33	19,5	M25x1,5	25	0,38	7,0	400	1600	30	7602-10-06
G1/2	15,5	68	97	107	38	21	M30x1,5	30	0,60	9,3	400	1600	50	7602-10-08
G3/4	17	86	120,5	132,5	47	26,5	M40x1,5	40	1,25	12	400	1600	80	7602-10-12
G1	20	105	151,5	167,5	58	35	M50x1,5	50	2,55	15,6	320	1300	150	7602-10-16
G1.1/4	22	120	156,5	172,5	58	35	M50x1,5	55	3,00	15,6	320	1300	200	7602-10-20
G1.1/2	24	134	167	181	58	35	M55x2	65	4,22	20	320	1300	300	7602-10-24
G2	27	150	188	202	85	44	M65x2	75	7,30	25	320	1300	300	7602-10-32



aanbevolen
recommandé
recommended
empfohlen



max. P25 µm

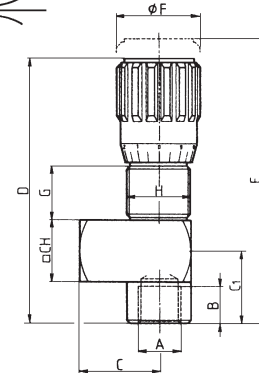








7602-11



-20/+100°C

Smooklep 90°
Vanne d'étranglement 90°
Throttle valve 90°
Drosselventil 90°



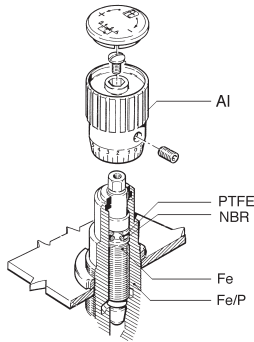
 A BSPP	B	C	C1	D	E	F	G	H	CH	 Kg	 mm	 BAR max.	 BAR min.	 LPM max.	Fe/P REF.
G1/8	8,5	19	20	71	76	22	14,5	M17x1	16	0,1	3,9	400	1600	10	7602-11-02
G1/4	13,5	25	27	86,5	93,5	27	17	M20x1	20	0,2	4,9	400	1600	15	7602-11-04
G3/8	12,5	29,5	31,5	101,5	110,5	33	19,5	M25x1,5	25	0,4	7,0	400	1600	30	7602-11-06
G1/2	15,5	35	37	117	127	38	21	M30x1,5	30	0,6	9,3	400	1600	50	7602-11-08
G3/4	17	42	46	142,5	154,5	47	26,5	M40x1,5	40	1,3	12	400	1600	80	7602-11-12



aanbevolen
recommandé
recommended
empfohlen



max. P25 µm

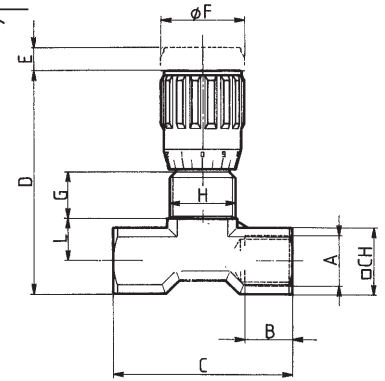


7602-20








-20/+100°C

Smooklep
Vanne d'étranglement
Throttle valve
Drosselventil



4

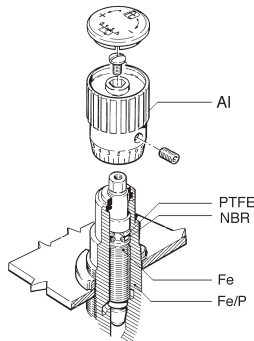
 A BSPP	B	C	D	E	F	G	H	L	CH	 Kg	 mm ²	 BAR max.	 LPM max.	CuZn/Ni REF.
G1/8	8	40	55	4	22	12	M15x1	9,5	15	0,10	7,0	210	10	7602-20-02
G1/4	12	46	57	4,5	22	11,5	M17x1	11	17	0,13	12,5	210	15	7602-20-04
G3/8	13	55	69	7	27	12,5	M20x1	15	22	0,24	19,6	210	30	7602-20-06
G1/2	16	70	82	10	33	13	M25x1,5	19	27	0,45	50,2	210	50	7602-20-08
G3/4	20	91	100	12	38	15	M30x1,5	22	34	0,86	78,5	210	80	7602-20-12



aanbevolen
recommandé
recommended
empfohlen



max. P25 µm

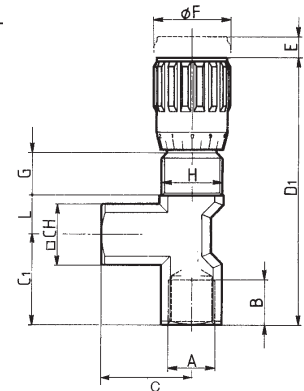







7602-21



-20/+100°C

Smooklep 90°
Vanne d'étranglement 90°
Throttle valve 90°
Drosselventil 90°



 A BSPP	B	C	D	E	F	G	H	L	CH	 Kg	 mm ²	 BAR max.	 LPM max.	CuZn/Ni REF.
G1/8	8	21	69	4	22	12	M15x1	9,5	15	0,10	7,0	210	10	7602-21-02
G1/4	12	25	74	4,5	22	12	M17x1	11	17	0,14	12,5	210	15	7602-21-04
G3/8	13	29,5	88	7	27	11,5	M20x1	15	22	0,25	19,6	210	30	7602-21-06
G1/2	16	36	105	10	33	13	M25x1,5	19	27	0,46	50,2	210	50	7602-21-08

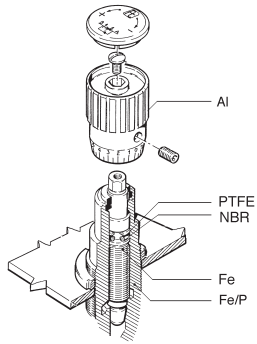
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aanbevolen
recommandé
recommended
empfohlen



max. P25 µm

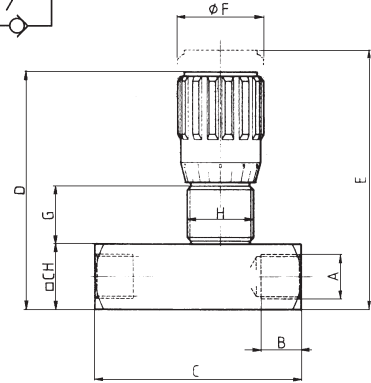
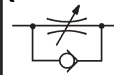


7603-10



-20/+100°C

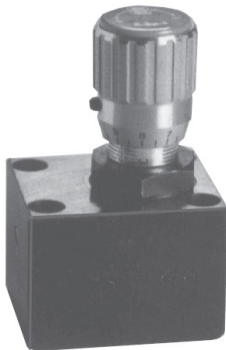
Smoor- en terugslagklep
Vanne d'étranglement anti-retour
Throttle- and non return valve
Drossel- und Rückschlagventil



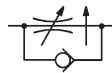
4

A BSPP	B	C	D	E	F	G	H	CH	Kg	mm	BAR max.	BAR min.	LPM max.	BAR	Fe/P REF.
G1/8	8,5	50	59	64	22	13,5	M17x1	16	0,13	3,9	400	1600	10	0,35	7603-10-02
G1/4	12,5	66	71	78	27	17	M20x1	20	0,25	4,9	400	1600	15	0,35	7603-10-04
G3/8	12,5	79	84	93	33	19,5	M25x1,5	25	0,5	7,0	400	1600	30	0,35	7603-10-06
G1/2	15,5	94,5	97	107	38	21	M30x1,5	30	0,75	9,3	400	1600	50	0,35	7603-10-08
G3/4	17	115	120,5	132,5	47	26,5	M40x1,5	40	1,6	12	400	1600	80	0,35	7603-10-12
G1	20	138,5	151,5	167,5	58	35	M50x1,5	50	3,05	15,6	320	1300	150	0,35	7603-10-16
G1.1/4	22	157	156,5	172,5	58	35	M50x1,5	55	3,75	15,6	320	1300	200	0,35	7603-10-20
G1.1/2	24	190	167	181	58	35	M55x2	65	5,76	20	320	1300	300	0,35	7603-10-24
G2	27	228	188	202	85	44	M65x2	75	10	25	320	1300	300	0,35	7603-10-32

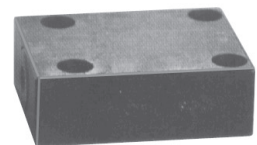
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REF. 280/5



REF. 280/6



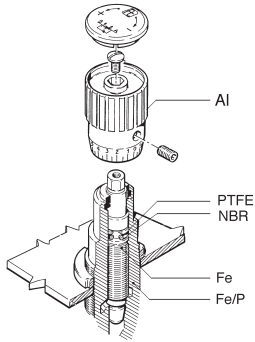
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aanbevolen
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empfohlen



max. P25 µm

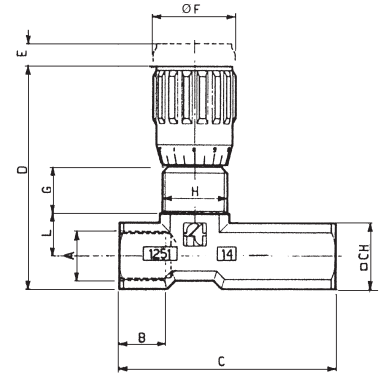
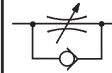


7603-20









-20/+100°C

Smoor- en terugslagklep
Vanne d'étranglement anti-retour
Throttle- and non return valve
Drossel- und Rückschlagventil



4

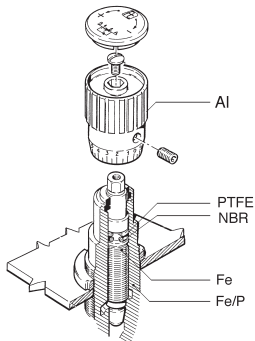
 A BSPP	B	C	D	E	F	G	H	L	CH	 Kg	 mm	 BAR max.	 LPM max.	 BAR	CuZn/Ni REF.
G1/4	12	56	57	4,5	22	11,5	M17x1	11	17	0,14	4,0	210	15	0,35	7603-20-04
G3/8	13	64,5	69	7	27	12,5	M20x1	15	22	0,26	5,0	210	30	0,35	7603-20-06
G1/2	16	87	82	10	33	13	M25x1,5	19	27	0,50	8,0	210	50	0,35	7603-20-08
G3/4	20	115	100	12	38	15	M30X1,5	22	34	0,98	10,1	210	80	0,35	7603-20-12



aanbevolen
recommandé
recommended
empfohlen



max. P25 µm

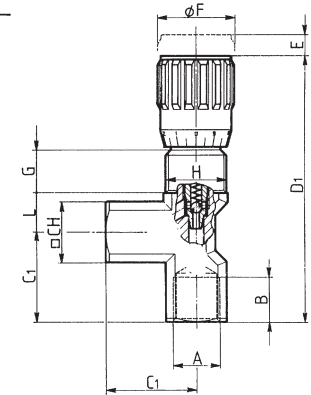
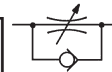








7603-21



-20/+100°C

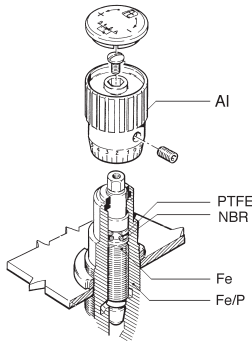
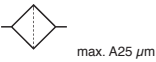
Smoor- en terugslagklep 90°
Vanne d'étranglement anti-retour 90°
Throttle- and non return valve 90°
Drossel- und Rückschlagventil 90°



 A BSPP	B	C	D	E	F	G	H	L	CH	 Kg	 mm	 BAR max.	 LPM max.	 BAR	CuZn/Ni REF.
G1/8	8	21	69	4	22	12	M15x1	9,5	15	0,10	2,9	210	10	0,35	7603-21-02
G1/4	12	25	74	4,5	22	11,5	M17x1	11	17	0,14	4,0	210	15	0,35	7603-21-04
G3/8	13	29,5	88	7	27	12,5	M20x1	15	22	0,25	5,0	210	30	0,35	7603-21-06
G1/2	16	36	105	10	33	13	M25x1,5	19	27	0,45	8,0	210	50	0,35	7603-21-08



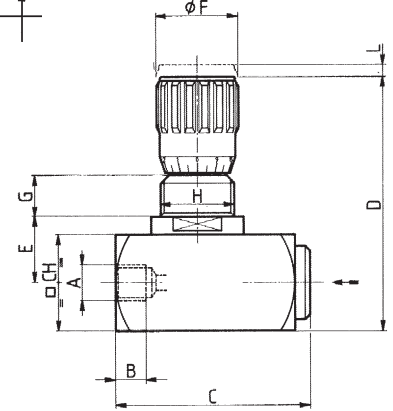
aanbevolen
recommandé
recommended
empfohlen



7606-10

-20/+100°C

Smooklep*
Vanne d'étranglement*
Throttle valve*
Drosselventil*



A BSPP	B	C	D	E	F	G	H	L	CH	Kg	BAR max.	ΔP BAR min.	→Q→ LPM max.	Fe/P REF.
G1/4	12,5	81	104,5	28	33	17	M30x1,5	4,5	40	1,0	320	7,5	15	7606-10-04
G3/8	12,5	100	127	32	38	27	M35x1,5	6	45	1,6	320	10	30	7606-10-06
G1/2	15,5	119	147,5	38	47	28,5	M40x1,5	6,5	55	2,8	320	12	55	7606-10-08
G3/4	17	142	180	45	58	35	M50x1,5	7,5	65	4,8	320	15	90	7606-10-12

*Drukgecompenseerd (één richting). Door drukcompensatie een constante doorstroming onafhankelijk van druk.

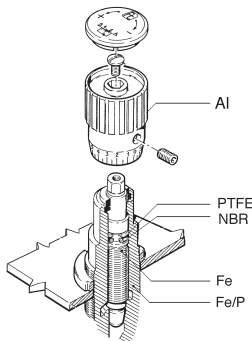
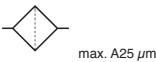
*Pression compensée (une direction). Par compensation de la pression débit constant indépendant de la pression .

*Pressure compensated (one way). Due the pressure compensation: constant flow undepending of pressure.

*Druckkompensiert (ein Richtung). Mittels Druckkompensation wird ein konstanter Durchfluß erreicht.



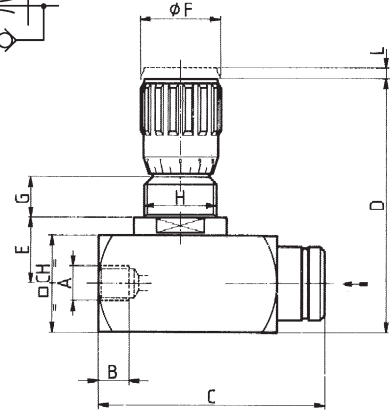
aanbevolen
recommandé
recommended
empfohlen



7606-11

-20/+100°C

Smoor- en terugslagklep*
Vanne d'étranglement anti-retour*
Throttle- and non return valve*
Drossel- und Rückschlagventil*



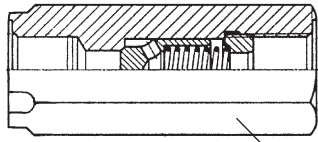
A BSPP	B	C	D	E	F	G	H	L	CH	Kg	BAR max.	ΔP BAR min.	→Q→ LPM max.	←Q← BAR	Fe/P REF.
G1/4	12,5	93,5	104,5	28	33	17	M30x1,5	4,5	40	1,1	320	7,5	15	0,35	7606-11-04
G3/8	12,5	112,5	127	32	38	27	M35x1,5	6	45	1,7	320	10	30	0,35	7606-11-06
G1/2	15,5	136	147,5	38	47	28,5	M40x1,5	6,5	55	2,95	320	12	55	0,35	7606-11-08
G3/4	17	163	180	45	58	35	M50x1,5	7,5	65	5,05	320	15	90	0,35	7606-11-12

*Drukgecompenseerd (één richting). Door drukcompensatie een constante doorstroming onafhankelijk van druk.

*Pression compensée (une direction). Par compensation de la pression débit constant indépendant de la pression .

*Pressure compensated (one way). Due the pressure compensation: constant flow undepending of pressure.

*Druckkompensiert (ein Richtung). Mittels Druckkompensation wird ein konstanter Durchfluß erreicht.



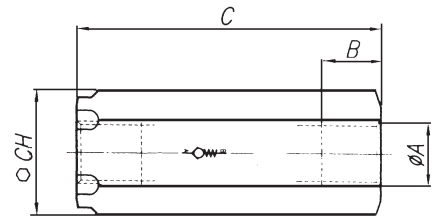
Fe/Zn/YP

7604-10

PLUNGER

-20/+100°C

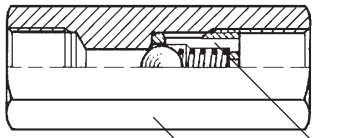
Terugslagklep
Clapet anti-retour
Non return valve
Rückschlagventil



A BSPP	B	C	CH	Kg	BAR max.	BAR min.	LPM max.	BAR	Fe/Zn/YP REF.
G1/8	8,5	46	17	0,07	400	1600	10	0,35	7604-10-02
G1/4	12,5	63	22	0,17	400	1600	15	0,35	7604-10-04
G3/8	12,5	69	27	0,26	400	1600	30	0,35	7604-10-06
G1/2	15,5	80,5	32	0,42	400	1600	50	0,35	7604-10-08
G3/4	17	99,5	36	0,61	400	1600	100	0,35	7604-10-12
G1	20	117	46	1,17	320	1300	150	0,35	7604-10-16
G1.1/4	22	134,5	55	1,85	320	1300	250	0,35	7604-10-20
G1.1/2	24	159	65	3,13	320	1300	300	0,35	7604-10-24
G2	27	198	75	4,90	320	1300	450	0,35	7604-10-32

2-4-6-8-10 BAR

AISI 316, NPT



Fe/P

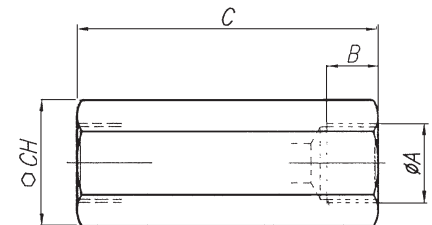
PA

7604-11

BALL

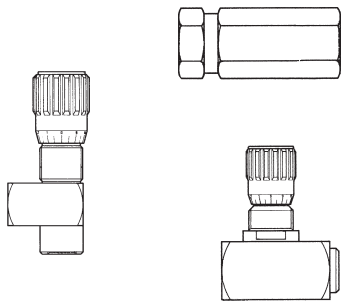
-20/+100°C

Terugslagklep
Clapet anti-retour
Non return valve
Rückschlagventil



A BSPP	B	C	CH	Kg	BAR max.	BAR min.	LPM max.	BAR	Fe/P REF.
G1/8	8,5	41	16	0,05	400	1600	10	0,35	7604-11-02
G1/4	12,5	54	19	0,09	400	1600	15	0,35	7604-11-04
G3/8	13	65	24	0,18	400	1600	30	0,35	7604-11-06
G1/2	16	77	30	0,31	400	1600	50	0,35	7604-11-08
G3/4	20	88	36	0,45	400	1600	100	0,35	7604-11-12
G1	23	108,5	46	0,97	320	1300	150	0,35	7604-11-16

4,5 BAR



**Algemene informatie
Informations générales
General information
Allgemeine Information**

**Smoor- en terugslagkleppen
Vannes d'etranglement -
clapets anti-retour
Throttle- and non return valves
Drossel- und Rückschlagventile**

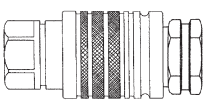



**Algemene informatie
Informations générales
General information
Allgemeine Information**

<p>Toepassing: Voor gebruik in hydraulische systemen met hydrauliek vloeistoffen op minerale- en glycolbasis, lucht, brandstofolie etc.</p> <p>Uitvoering: De huizen zijn van staal gefosfateerd of messing verchromd. Op aanvraag ook leverbaar in roestvaststaal. Leidingafsluiters zijn voorzien van een kunststof handwiel en de smoorkleppen van een licht metalen handwiel, beide uitvoeringen met schaalverdeling en instelschroef.</p> <p>Afdichtingen: De naald is van gehard staal (35S MnPb 10) waardoor een goede afdichting van metaal op metaal wordt gewaarborgd. De asafdichtingen zijn van NBR en PTFE.</p> <p>Filtratie: Om overmatige slijtage te voorkomen dient het medium gefilterd te worden met filterfijnheid van P25μ of fijner. Voor de druk gecompenseerde kleppen wordt een filterfijnheid van max. A25μ aanbevolen.</p> <p>Veiligheidsfactor: Voor de stalen kleppen 4x werkdruk.</p>	<p>Applications: Pour utilisation dans les systèmes hydrauliques à base d'huiles minérales ou de glycols, d'air et d'huiles de combustion etc.</p> <p>Exécution: Les corps sont en acier phosphaté ou en laiton chromé. Sur demande aussi livrable en acier inoxydable. Les vannes d'obturation de conduites son munies d'un bouton manuel en matière synthétique et les soupapes sont munies d'un bouton de réglage en métal léger. Les deux exécutions sont munies d'une graduation et d'un vis de réglage.</p> <p>Étanchéités: L'aiguille est à base d'acier trempé (35S MnPb 10). Cette exécution permet une excellente étanchéité de métal sur métal. Les étanchéités de l'axe sont à base de NBR et PTFE.</p> <p>Filtration: Pour éviter l'usure exagérée il est recommandé de filtrer le fluide avec une finesse de filtration de P25μ. Pour les soupapes compensées il est recommandé une finesse de filtration de maximum A25μ.</p> <p>Coefficient de sécurité: Pour les soupapes en acier pression de travail x 4.</p>
<p>Application: For use in hydraulic systems with hydraulic fluids based on mineral oil and glycol base, air, fuel, etc.</p> <p>Construction: The bodies are steel phosphate plated or brass chrome plated. On request available in stainless steel. Shut-off valves are supplied with a plastic hand wheel and the throttle valves are provided with a light metal adjusting knob, both constructions with a graduation and an adjusting screw.</p> <p>Seals: The needle is made from tempered steel (35S MnPb 10) by which a good sealing from metal on metal is guaranteed. The stem sealings are made from NBR rubber and PTFE.</p> <p>Filtration: In order to prevent excessive wear the medium has to be filtered with a filter of maximum P25μ. On behalf of pressure compensated valves a filter of maximum A25μ is recommended.</p> <p>Safety factor: For steel valves 4x working pressure.</p>	<p>Anwendung: Für Einsatz in hydraulischen Systemen mit Hydraulik-Flüssigkeiten auf Mineralöl- und Glycolbasis, Luft, Brennstoff usw.</p> <p>Ausführung: Die Gehäuse sind aus Stahl phosphatiert, Messing verchromt oder komplett aus rostfreiem Stahl lieferbar. Absperrventile sind mit einem Kunststoffhandrad versehen, Drosselventile mit einem Einstellknopf aus Leichtmetall. Beide Ausführungen mit Skaleneinteilung und Einstellschraube.</p> <p>Dichtungen: Die Nadel ist aus gehärtetem Stahl (35S MnPb 10) und hat dadurch eine gute Abdichtung von Stahl auf Stahl. Die Achsenabdichtungen sind aus NBR und PTFE.</p> <p>Filtration: Um übermäßige Verschleiss vorzubeugen soll das Medium filtriert werden. Filterfeinheit P25μ oder feiner. Für Druckkompensierte Ventile wird eine Filterfeinheit von maximal A25μ empfohlen.</p> <p>Sicherheitsfaktor: Stahlventile 4x Betriebsdruck.</p>

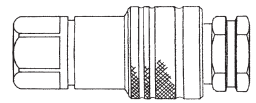
ATZ Aandrijftechniek B.V. (026-3112611)


Fe/Zn/Yp



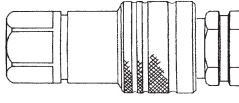
 5.3 ÷ 5.7
5.9, 5.10


CuZn

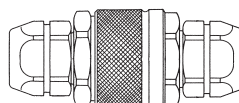



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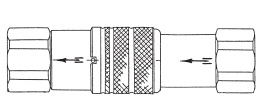
AISI 316




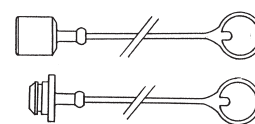
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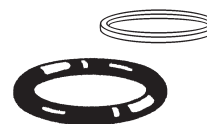
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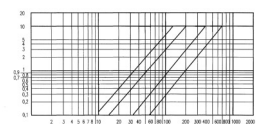
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 5.16 ÷ 5.18



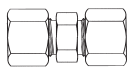
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
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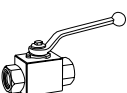
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
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2



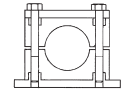
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
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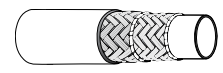
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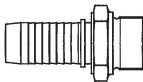
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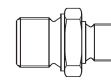
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
8




9




10




11



12



13



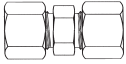
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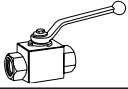
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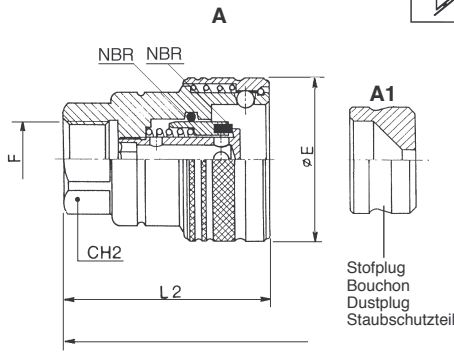
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4



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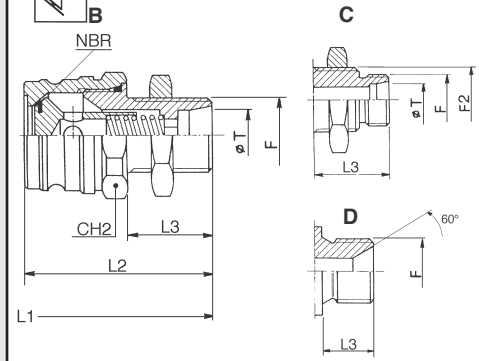
9306 (incl.A1)

9306
9307
PUSH

🌡️
-25 / +125°C

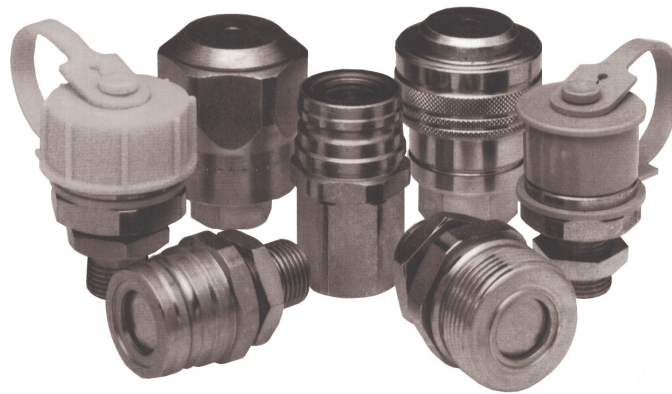
Remsnelkoppeling
Raccord rapide pour freinage
Brake quick disconnect coupling
Bremsschnellverschlußkupplung

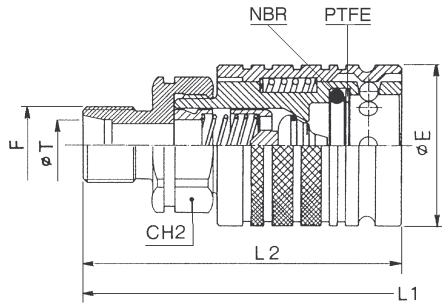
NFU 16-006/68 - ISO 5676



9307

S	F BSPP METR.	REF.	BAR max.	mm ²	Ch2	ØE	F2	L1	L2	L3	ØT	Fe/Zn/YP REF.	
A	G3/8 G1/2 M18x1,5	9307	220	51	27 27 27	44 44 44			55,5 55,5 55,5			9306-13-006 9306-13-008 9306-21-018	
B	M18x1,5 M20x1,5 M22x1,5	9306			32 32 32			90 92 92	49 51 51	21 23 23	12 13,5 15		9307-22-018 9307-22-020 9307-22-022
C	M16x1,5 M18x1,5				32 32		M20x1,5 M20x1,5	93,5 93	52,5 52	24,5 24	10 12	9307-22-016/20 9307-22-018/20	
D	G1/2				32			89	48	15,5		9307-22-008	





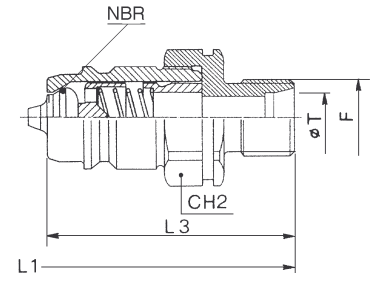
9308

9308
9309
PUSH PULL / VALVE

-25 / +125°C

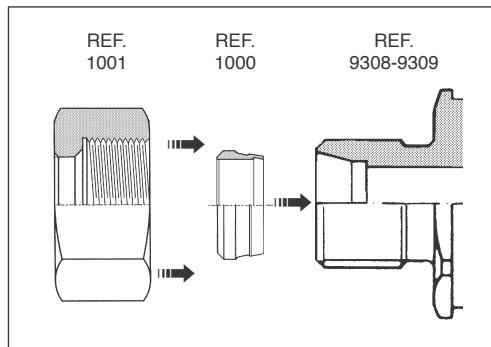
Snelkoppeling
Raccord rapide
Quick disconnect coupling
Schnellverschlusskupplung



3 & 5 = ISO A

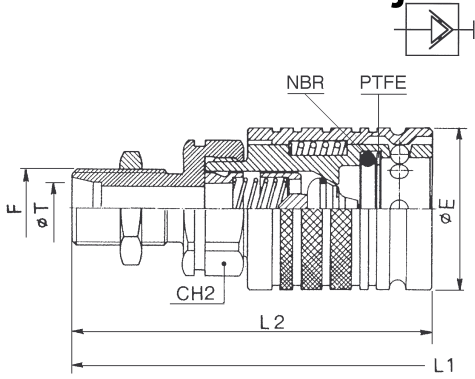


9309

ISO A	DN	F METR.	ISO 7241-1	ØT DIN 2353	Ø		LPM ISO	CH2	ØE	L1	L2	L3		Fe/Zn/YP REF.	Fe/Zn/YP REF.
					BAR max. DIN 2353	BAR max.									
2	10	M12x1,5		6L		270	25	22	31	104	70	52		9308-22-206L	9309-22-206L
	10	M14x1,5		8L		270	25	22	31	104	70	52		9308-22-208L	9309-22-208L
	10	M16x1,5		10L		270	25	22	31	106	71	53		9308-22-210L	9309-22-210L
	10	M18x1,5		12L		270	25	22	31	106	71	53		9308-22-212L	9309-22-212L
3	12	M14x1,5	A-12,5	8L	315	250	43	30	38	103	69	56		9308-22-308L	9309-22-308L
	12	M16x1,5	A-12,5	10L	315	250	43	30	38	105	70	57		9308-22-310L	9309-22-310L
	12	M18x1,5	A-12,5	12L	315	250	43	30	38	105	70	57		9308-22-312L	9309-22-312L
	12	M22x1,5	A-12,5	15L	315	250	43	30	38	107	71	58		9308-22-315L	9309-22-315L
	12	M26x1,5	A-12,5	18L	315	250	43	30	38	107	71	58		9308-22-318L	9309-22-318L
5	25	M26x1,5	A-25	18L	315	225	113	41	54	128	92,5	69		9308-22-618L	9309-22-618L
	25	M30x2	A-25	22L	160	225	113	41	54	132	94,5	71		9308-22-622L	9309-22-622L
	25	M36x2	A-25	28L	160	225	113	41	54	132	94,5	71		9308-22-628L	9309-22-628L
2	10	M16x1,5		8S		270	25	22	31	108	72	54		9308-22-208S	9309-22-208S
	10	M18x1,5		10S		270	25	22	31	108	72	54		9308-22-210S	9309-22-210S
	10	M20x1,5		12S		270	25	22	31	108	72	54		9308-22-212S	9309-22-212S
3	12	M18x1,5	A-12,5	10S	630	250	43	30	38	107	71	58		9308-22-310S	9309-22-310S
	12	M20x1,5	A-12,5	12S	630	250	43	30	38	107	71	58		9308-22-312S	9309-22-312S
	12	M22x1,5	A-12,5	14S	630	250	43	30	38	111	73	60		9308-22-314S	9309-22-314S
	12	M24x1,5	A-12,5	16S	400	250	43	30	38	111	73	60		9308-22-316S	9309-22-316S
	12	M30x2	A-12,5	20S	400	250	43	30	38	115	75	62		9308-22-320S	9309-22-320S
5	25	M30x2	A-25	20S	400	225	113	41	54	136	96,5	73		9308-22-620S	9309-22-620S
	25	M36x2	A-25	25S	400	225	113	41	54	140	98,5	75		9308-22-625S	9309-22-625S
	25	M42x2	A-25	30S	400	225	113	46	54	144	100,5	77		9308-22-630S	9309-22-630S



DIN 2353		
	Fe/Zn/YP REF.	Fe/Zn/YP REF.
8L	1000-08L	1001-08L
10L	1000-10L	1001-10L
12L	1000-12L	1001-12L
15L	1000-15L	1001-15L
18L	1000-18L	1001-18L
22L	1000-22L	1001-22L
28L	1000-28L	1001-28L
35L	1000-35L	1001-35L
8S	1000-08L	1001-08S
10S	1000-10L	1001-10S
12S	1000-12L	1001-12S
14S	1000-14S	1001-14S
16S	1000-16S	1001-16S
20S	1000-20S	1001-20S
25S	1000-25S	1001-25S
30S	1000-30S	1001-30S



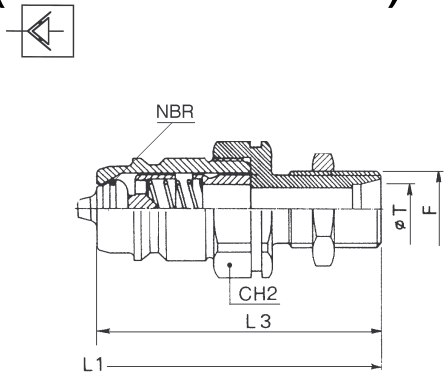
9308

9308
9309
PUSH PULL / VALVE

🌡️ **-25 / +125°C**

Snelkoppeling
Raccord rapide
Quick disconnect coupling
Schnellverschlusskupplung

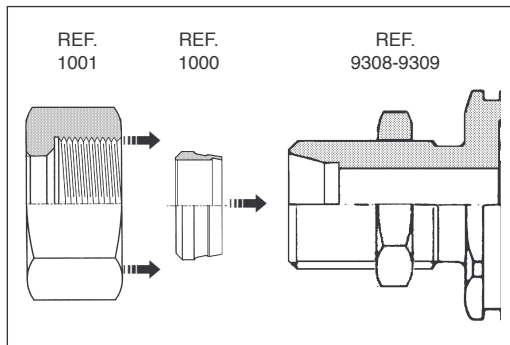
🏠 **3 & 5 = ISO A**



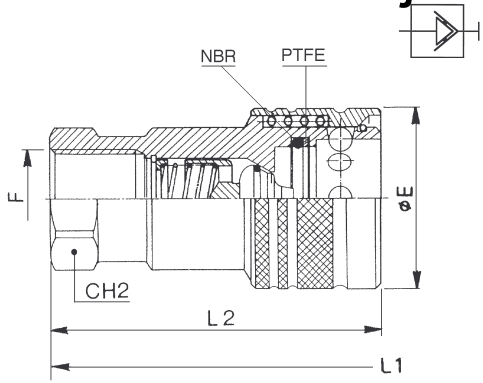
9309

5

	DN	F METR.	ISO 7241-1	ØT DIN 2353	BAR max. DIN 2353		LPM ISO	CH2	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
					BAR max. DIN 2353	BAR max. DIN 2353								
2	10	M14x1,5		8L		270	25	22	31	136	86	68	9308-25-208L	9309-25-208L
2	10	M16x1,5		10L		270	25	22	31	136	86	68	9308-25-210L	9309-25-210L
2	10	M18x1,5		12L		270	25	22	31	136	86	68	9308-25-212L	9309-25-212L
3	12	M14x1,5	A-12,5	8L	315	250	43	30	38	135	85	72	9308-25-308L	9309-25-308L
3	12	M16x1,5	A-12,5	10L	315	250	43	30	38	135	85	72	9308-25-310L	9309-25-310L
3	12	M18x1,5	A-12,5	12L	315	250	43	30	38	135	85	72	9308-25-312L	9309-25-312L
3	12	M22x1,5	A-12,5	15L	315	250	43	30	38	137	86	73	9308-25-315L	9309-25-315L
3	12	M26x1,5	A-12,5	18L	315	250	43	30	38	137	86	73	9308-25-318L	9309-25-318L
5	25	M26x1,5	A-25	18L	315	225	113	41	54	172	114,5	91	9308-25-618L	9309-25-618L
5	25	M30x2	A-25	22L	160	225	113	41	54	172	114,5	91	9308-25-622L	9309-25-622L
5	25	M36x2	A-25	28L	160	225	113	41	54	172	114,5	91	9308-25-628L	9309-25-628L
2	10	M16x1,5		8S		270	25	22	31	138	87	69	9308-25-208S	9309-25-208S
2	10	M18x1,5		10S		270	25	22	31	138	87	69	9308-25-210S	9309-25-210S
2	10	M20x1,5		12S		270	25	22	31	138	87	69	9308-25-212S	9309-25-212S
3	12	M18x1,5	A-12,5	10S	630	250	43	30	38	137	86	73	9308-25-310S	9309-25-310S
3	12	M20x1,5	A-12,5	12S	630	250	43	30	38	137	86	73	9308-25-312S	9309-25-312S
3	12	M22x1,5	A-12,5	14S	630	250	43	30	38	141	88	75	9308-25-314S	9309-25-314S
3	12	M24x1,5	A-12,5	16S	400	250	43	30	38	141	88	75	9308-25-316S	9309-25-316S
3	12	M30x2	A-12,5	20S	400	250	43	30	38	141	88	75	9308-25-320S	9309-25-320S
5	25	M30x2	A-25	20S	400	225	113	41	54	176	116,5	93	9308-25-620S	9309-25-620S
5	25	M36x2	A-25	25S	400	225	113	41	54	180	118,5	95	9308-25-625S	9309-25-625S
5	25	M42x2	A-25	30S	400	225	113	46	54	184	120,5	97	9308-25-630S	9309-25-630S



DIN 2353			
	Fe/Zn/YP REF.	Fe/Zn/YP REF.	Fe/Zn/YP REF.
8L	1000-08L	1001-08L	1009-08L
10L	1000-10L	1001-10L	1009-10L
12L	1000-12L	1001-12L	1009-12L
15L	1000-15L	1001-15L	1009-15L
18L	1000-18L	1001-18L	1009-18L
22L	1000-22L	1001-22L	1009-22L
28L	1000-28L	1001-28L	1009-28L
35L	1000-35L	1001-35L	1009-35L
8S	1000-08S	1001-08S	1009-08S
10S	1000-10S	1001-10S	1009-10S
12S	1000-12S	1001-12S	1009-12S
14S	1000-14S	1001-14S	1009-14S
16S	1000-16S	1001-16S	1009-16S
20S	1000-20S	1001-20S	1009-20S
25S	1000-25S	1001-25S	1009-25S
30S	1000-30S	1001-30S	1009-30S



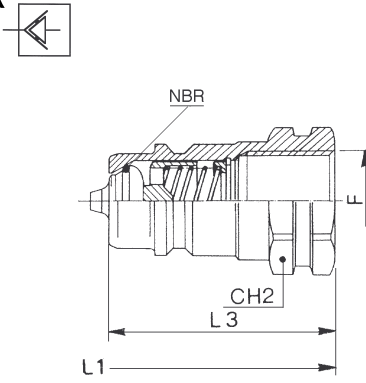
9318

9318
9319
PUSH / VALVE

-25 / +125°C

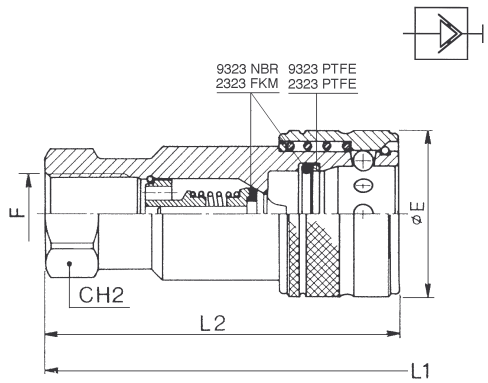
Snelkoppeling
Raccord rapide
Quick disconnect coupling
Schnellverschlusskupplung

ISO A



9319

Icon	DN	F BSP/METR.	ISO 7241-1	BAR max.	LPM ISO	cm ³	CH2	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
[Symbol]	6	G1/4	A-6,3	350	9,6	0,5	19	26	70	49	35	9318-13-104	9319-13-104
	10	G3/8	A-10	300	25	1,9	22	30	85	60,5	42,5	9318-13-206	9319-13-206
	12	G1/2	A-12,5	250	43	2,7	27	38	96	70	48	9318-13-308	9319-13-308
	20	G3/4	A-20	250	93	9,3	34	45	114	84,5	57	9318-13-412	9319-13-412
	25	G1	A-25	250	113	16	41	52	131	99	65,5	9318-13-516	9319-13-516
	30	G1.1/4	A-31,5	250	196	30	50	70	150	117	75	9318-13-620	9319-13-620
	40	G1.1/2	A-40	200	336	54	60	82	167	133	84	9318-13-724	9319-13-724
	50	G2	A-50	190	536	120	75	99	216	169	108	9318-13-832	9319-13-832
[Symbol]	6	1/4NPTF	A-6	350	9,6	0,5	19	26	70	49	35	9318-17-104	9319-17-104
	10	3/8NPTF	A-10	300	25	1,9	22	30	85	60,5	42,5	9318-17-206	9319-17-206
	12	1/2NPTF	A-12,5	250	43	2,7	27	38	96	70	48	9318-17-308	9319-17-308
	20	3/4NPTF	A-20	250	93	9,3	34	45	114	84,5	57	9318-17-412	9319-17-412
	25	1NPTF	A-25	250	113	16	41	52	131	99	65,5	9318-17-516	9319-17-516
	30	1.1/4NPTF	A-31,5	250	196	30	50	70	150	117	75	9318-17-620	9319-17-620
	40	1.1/2NPTF	A-40	200	336	54	60	82	167	133	84	9318-17-724	9319-17-724
	50	2NPTF	A-50	190	536	120	75	99	216	169	108	9318-17-832	9319-17-832



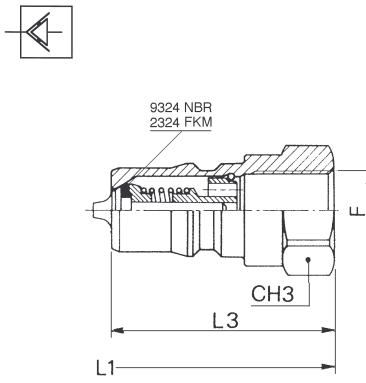
9323-2323

9323-9324
2323-2324
PUSH / VALVE

Fe/Zn/YP -25/+125°C
CuZn -25/+200°C

(Messing) Snelkoppeling
Raccord rapide (Laiton)
(Brass) Quick disconnect coupling
(Messing) Schnellverschlusskupplung

ISO B

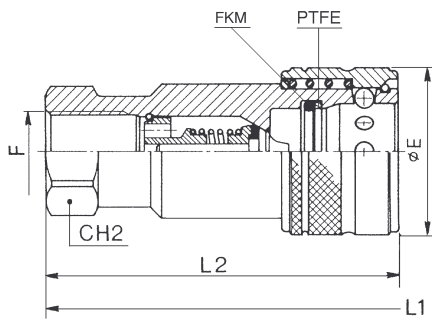


9324-2324

Icon	DN	F BSP	ISO 7241-1	BAR		LPM ISO	cm ³	CH2	CH3	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.	CuZn REF.	CuZn REF.
				9323- 9324-	2323- 2324-												
[Symbol]	4	G1/8	B-5	400	250	6	0,5	17	14	23	62	50	31	9324-13-002	9324-13-002	2323-13-002	2324-13-002
	6	G1/4	B-6,3	350	200	16	1	19	19	28	76	60	38	9324-13-104	9324-13-104	2323-13-104	2324-13-104
	10	G3/8	B-10	325	200	30	2,4	24	22	35	86	67,5	43	9323-13-206	9324-13-206	2323-13-206	2324-13-206
	12	G1/2	B-12,5	250	200	41	3,9	30	27	44	97	76	48,5	9323-13-308	9324-13-308	2323-13-308	2324-13-308
	20	G3/4	B-20	250	150	92	11	36	34	52	114	91,5	57	9323-13-412	9324-13-412	2323-13-412	2324-13-412
	25	G1	B-25	225	180	113	19	41	41	60	131	106	65,5	9323-13-516	9324-13-516	2323-13-516	2324-13-516
	40	G1.1/4	B-40	120	100	500	95	65	65	75	200	125	125	9323-13-720	9324-13-720	2323-13-720	2324-13-720
	50	G2	B-50	100	80	940	170	90	90	105	220	142	142	9323-13-832	9324-13-832	2323-13-832	2324-13-832

* NPTF

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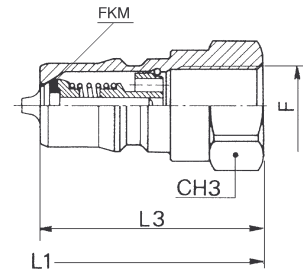
3323

3323
3324
PUSH / VALVE

-25 / +200°C

RVS Snelkoppeling
Raccord rapide INOX
Quick disconnect coupling SS
Edelstahl Schnellverschlusskupplung

ISO B

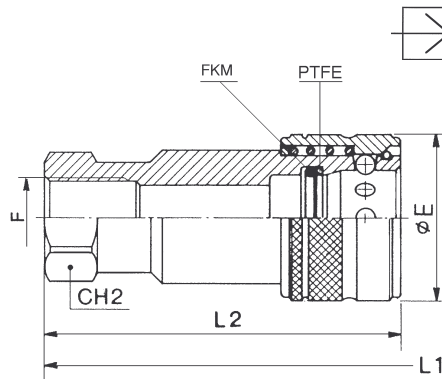


3324

5

	DN	F BSPP*	ISO 7241-1	BAR max.	LPM ISO	cm3	CH2	CH3	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
1	6	G1/4	B-6.3	300	16	1	19	19	28	76	60	38	3323-13-104	3324-13-104
2	10	G3/8	B-10	280	30	2.4	24	22	35	86	67.5	43	3323-13-206	3324-13-206
3	12	G1/2	B-12.5	250	41	3.9	30	27	44	97	76	48.5	3323-13-308	3324-13-308
4	20	G3/4	B-20	250	92	11	36	34	52	114	91.5	57	3323-13-412	3324-13-412
5	25	G1	B-25	200	113	19	41	41	60	131	106	65.5	3323-13-516	3324-13-516
7	40	G1.1/4	B-40	110	500	95	65	65	75	200	125	125	3323-13-720	3324-13-720
7	40	G1.1/2	B-40	110	500	95	65	65	75	200	125	125	3323-13-724	3324-13-724
8	50	G2	B-50	90	940	170	90	90	105	220	142	142	3323-13-832	3324-13-832

* NPTF

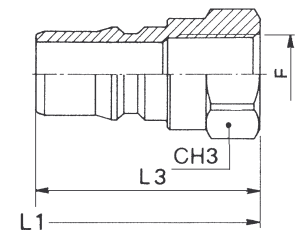


3323

3323
3324
PUSH / FULL FLOW

-25 / +200°C

RVS Snelkoppeling
Raccord rapide INOX
SS Quick disconnect coupling
Edelstahl Schnellverschlusskupplung

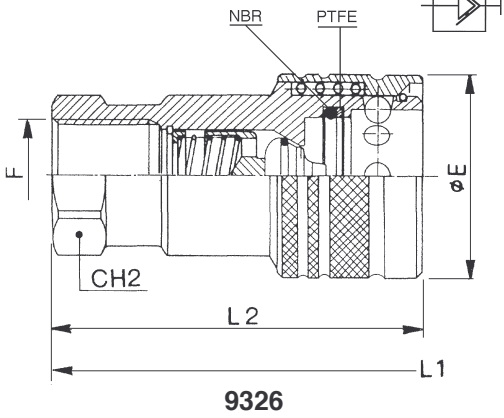


3324

	DN	F NPTF	ISO 7241-1	BAR max.	LPM ISO	CH2	CH3	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
1	6	G1/4	B-6.3	300	16	19	19	28	76	60	38	3323-14-104	3324-14-104
2	10	G3/8	B-10	280	30	24	22	35	86	67.5	43	3323-14-206	3324-14-206
3	12	G1/2	B-12.5	250	41	30	27	44	97	76	48.5	3323-14-308	3324-14-308
4	20	G3/4	B-20	250	92	36	34	52	114	91.5	57	3323-14-412	3324-14-412
5	25	G1	B-25	200	113	41	41	60	131	106	65.5	3323-14-516	3324-14-516
7	40	G1.1/4	B-40	110	500	65	65	75	200	125	125	3323-14-720	3324-14-720
7	40	G1.1/2	B-40	110	500	65	65	75	200	125	125	3323-14-724	3324-14-724
8	50	G2	B-50	90	940	90	90	105	220	142	142	3323-14-832	3324-14-832

* NPTF

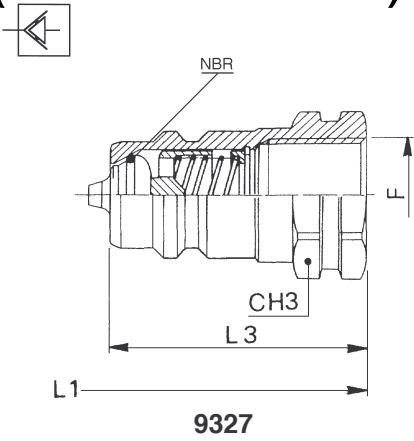
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9326
9327
PUSH / VALVE

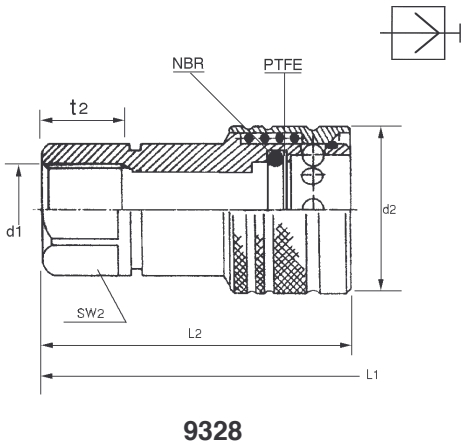
-25 / +125°C

Snelkoppeling
 Raccord rapide
 Quick disconnect coupling
 Schnellverschlusskupplung



	DN	F BSPP	BAR max.	mm ²	CH2	CH3	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
6	30	G1.1/4	220	380	50	50	70	150	117	75	9326-13-0620	9327-13-0620
7	40	G1.1/2	180	650	60	60	84	167	128	84	9326-13-0724	9327-13-0724
8	50	G2	130	1780	75	75	118	200	152	100	9326-13-0832	9327-13-0832

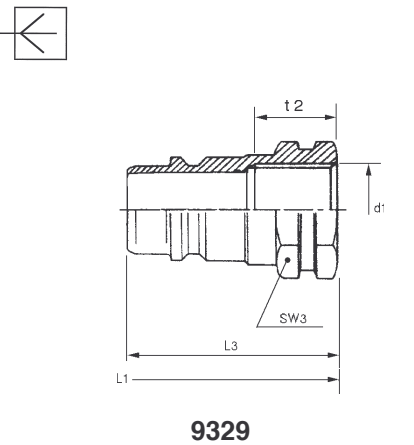
5



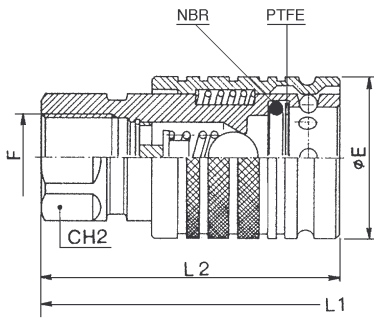
9328
9329
PUSH / FULL FLOW

-25 / +125°C

Snelkoppeling
 Raccord rapide
 Quick disconnect coupling
 Schnellverschlusskupplung



	DN	d1 BSPP	BAR max.	t2	SW2	SW3	d2	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
1	6	G1/4	350	16	19	19	27	70	51	36	9328-14-104	9329-14-104
2	10	G3/8	300	16	22	22	30	85	60	43	9328-14-206	9329-14-206
3	12	G1/2	250	18	27	27	38	96	70	48	9328-14-308	9329-14-308
4	20	G3/4	250	22	34	34	45	110	82	55	9328-14-412	9329-14-412
5	25	G1	230	23	41	41	52	131	99	65	9328-14-516	9329-14-516



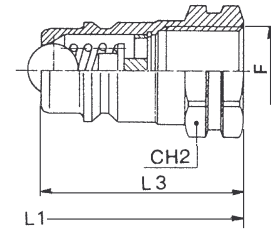
9333

9333
9334
PUSH PULL / BALL

-25 / +125°C

Snelkoppeling
Raccord rapide
Quick disconnect coupling
Schnellverschlusskupplung

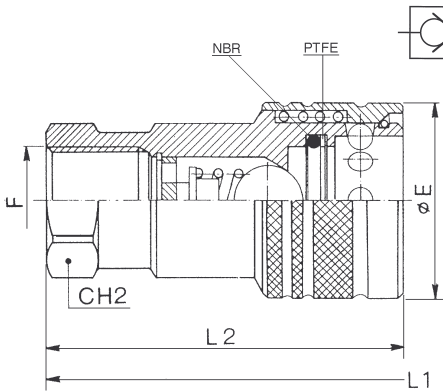
ISO A



9334

5

	DN	F BSPP NPTF	ISO 7241-1	BAR max.	mm ²	CH2	ØE	L1	L2	L3	Fe/Zn REF.	Fe/Zn REF.
3	12	G1/2	A-12,5	210	58	27	38	96	70	48	9333-13-308	9334-13-308
3	12	1/2NPTF	A-12,5	210	58	27	38	96	70	48	9333-17-308	9334-17-308



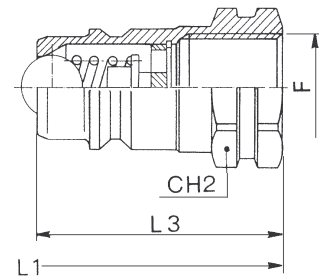
9338

9338
9339
PUSH / BALL

-25 / +125°C

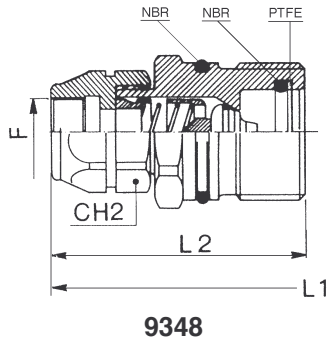
Snelkoppeling
Raccord rapide
Quick disconnect coupling
Schnellverschlusskupplung

3 = ISO A

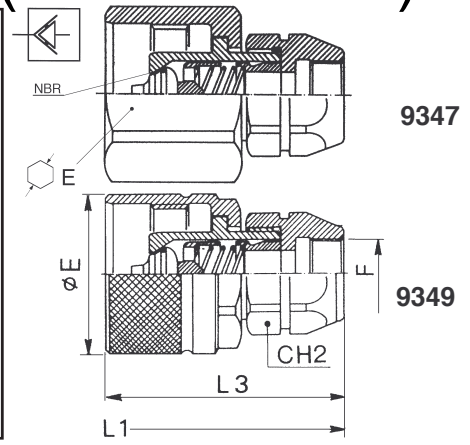


9339 / 9334

	DN	F BSPP NPTF	ISO 7241-1	BAR max.	mm ²	CH2	ØE	L1	L2	L3	Fe/Zn REF.	Fe/Zn REF.
1	6	G1/4	A-12,5	250	21	19	27	76	55,5	38	9338-13-104 9338-13-206 9338-13-308 9338-13-412 9338-13-516	9339-13-104 9339-13-206 9334-13-308 9334-13-412 9334-13-516
2	10	G3/8		250	41	24	34	85	63	42,5		
3	12	G1/2		210	58	27	38	96	70	48		
4	20	G3/4		175	115	34	47	114	86	57		
5	25	G1		175	135	41	52	132	99	65,5		
1	6	1/4NPTF	A-12,5	250	21	19	27	76	55,5	38	9338-17-104 9338-17-206 9338-17-308 9338-17-412 9338-17-516	9339-17-104 9339-17-206 9334-17-308 9334-17-412 9334-17-516
2	10	3/8NPTF		250	41	24	34	85	63	42,5		
3	12	1/2NPTF		210	58	27	38	96	70	48		
4	20	3/4NPTF		175	115	34	47	114	86	57		
5	25	1NPTF		175	135	41	52	132	99	65,5		

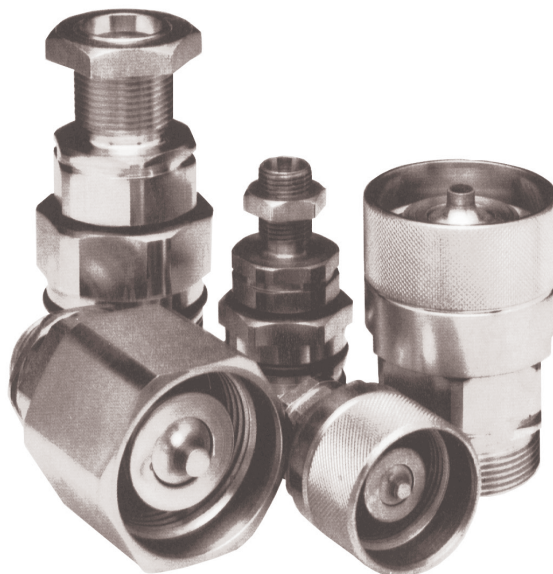


9347-9348
9349
SCREW / VALVE
 -25 / +125°C
Schroefkoppeling
Coupleur à visser
Screw coupling
Schraubkupplung

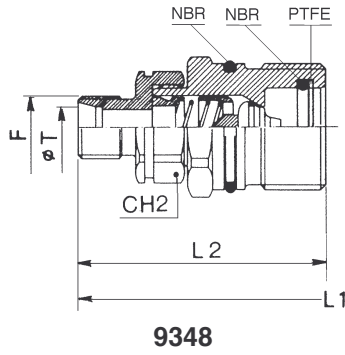


Icon	DN	F BSP* METR.	BAR max.	REF. 9347 & 9348 BAR max.	mm ²	CH2	E	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.	Fe/Zn/YP REF.	5
2	10	G1/4	400		60	22	34	98	63	62		9348-13-204	9349-13-204	
	10	G3/8	400		60	22	34	98	63	62		9348-13-206	9349-13-206	
3	12	G3/8	400		80	30	42	104	67	65		9348-13-306	9349-13-306	
	12	G1/2	400		80	30	42	104	67	65		9348-13-308	9349-13-308	
4	20	G3/4	400		150	36	47,5	133	86	79		9348-13-412	9349-13-412	
6	25	G3/4	300	50	240	41	55	153	100	78	9347-13-612	9348-13-612	9349-13-612	
	25	G1	300	50	240	41	55	153	100	78	9347-13-616	9348-13-616	9349-13-616	
2	10	M16x1,5	400		60	22	34	98	63	62		9348-21-216	9349-21-216	
3	12	M14x1,5	400		80	30	42	104	67	65		9348-21-314	9349-21-314	
	12	M16x1,5	400		80	30	42	104	67	65		9348-21-316	9349-21-316	
	12	M18x1,5	400		80	30	42	104	67	65		9348-21-318	9349-21-318	
	12	M22x1,5	400		80	30	42	104	67	65		9348-21-322	9349-21-322	
4	20	M18x1,5	400		150	36	47,5	125	82	75		9348-21-418	9349-21-418	
	20	M22x1,5	400		150	36	47,5	125	82	75		9348-21-422	9349-21-422	
6	25	M30x1,5	300	50	240	41	55	153	100	78	9347-21-630	9348-21-630	9349-21-630	

* NPTF



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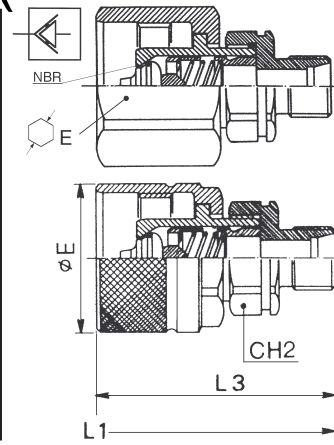


9348

9347-9348
9349
SCREW / VALVE

-25 / +125°C

Schroefkoppeling
Coupleur à visser
Screw coupling
Schraubkupplung

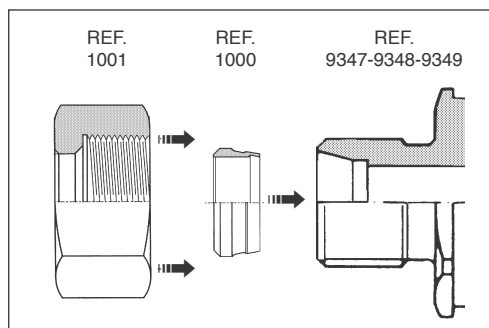


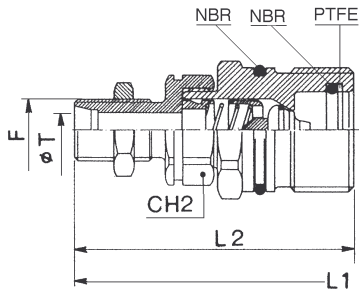
9347

9349

5

	DN	F METR.	ØT DIN 2353	BAR max. DIN 2353		REF. 9347 & 9348 BAR max.	mm ²	CH2	E	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.	Fe/Zn/YP REF.
				BAR max. DIN 2353	BAR max. DIN 2353										
2	10	M12x1,5	6L	315	400		60	22	34	94	61	60		9348-22-206L	9349-22-206L
	10	M14x1,5	8L	315	400		60	22	34	94	61	60		9348-22-208L	9349-22-208L
	10	M16x1,5	10L	315	400		60	22	34	96	62	61		9348-22-210L	9349-22-210L
	10	M18x1,5	12L	315	400		60	22	34	96	62	61		9348-22-212L	9349-22-212L
3	12	M14x1,5	8L	315	400		80	30	42	98	64	61,5		9348-22-308L	9349-22-308L
	12	M16x1,5	10L	315	400		80	30	42	100	65	62,5		9348-22-310L	9349-22-310L
	12	M18x1,5	12L	315	400		80	30	42	100	65	62,5		9348-22-312L	9349-22-312L
	12	M22x1,5	15L	315	400		80	30	42	102	66	63,5		9348-22-315L	9349-22-315L
	12	M26x1,5	18L	315	400		80	30	42	102	66	63,5		9348-22-318L	9349-22-318L
4	20	M18x1,5	12L	315	400		150	36	47,5	124	81	74		9348-22-412L	9349-22-412L
	20	M22x1,5	15L	315	400		150	36	47,5	126	82	75		9348-22-415L	9349-22-415L
	20	M26x1,5	18L	315	400		150	36	47,5	126	82	75		9348-22-418L	9349-22-418L
	20	M30x2	22L	160	400		150	36	47,5	130	84	77		9348-22-422L	9349-22-422L
6	25	M26x1,5	18L	315	300	50	240	41	55	139	93	71	9347-22-618L	9348-22-618L	9349-22-618L
	25	M30x2	22L	160	300	50	240	41	55	143	95	73	9347-22-622L	9348-22-622L	9349-22-622L
	25	M36x2	28L	160	300	50	240	41	55	143	95	73	9347-22-628L	9348-22-628L	9349-22-628L
	25	M45x2	35L	160	300	50	240	46	55	147	97	75	9347-22-635L	9348-22-635L	9349-22-635L
2	10	M16x1,5	8S	630	400		62	22	34	98	63	65		9348-22-208S	9349-22-208S
	10	M18x1,5	10S	630	400		62	22	34	98	63	65		9348-22-210S	9349-22-210S
	10	M20x1,5	12S	630	400		62	22	34	98	63	62		9348-22-212S	9349-22-212S
3	12	M16x1,5	8S	630	400		80	30	42	102	66	64		9348-22-308S	9349-22-308S
	12	M18x1,5	10S	630	400		80	30	42	102	66	64		9348-22-310S	9349-22-310S
	12	M20x1,5	12S	630	400		80	30	42	102	66	64		9348-22-312S	9349-22-312S
	12	M22x1,5	14S	630	400		80	30	42	106	68	66		9348-22-314S	9349-22-314S
	12	M24x1,5	16S	400	400		80	30	42	106	68	66		9348-22-316S	9349-22-316S
	12	M30x2	20S	400	400		80	30	42	110	70	68		9348-22-320S	9349-22-320S
4	20	M18x1,5	10S	630	400		150	36	47,5	126	82	75		9348-22-410S	9349-22-410S
	20	M22x1,5	14S	630	400		150	36	47,5	130	84	77		9348-22-414S	9349-22-414S
	20	M24x1,5	16S	400	400		150	36	47,5	130	84	77		9348-22-416S	9349-22-416S
	20	M30x2	20S	400	400		150	36	47,5	132	86	79		9348-22-420S	9349-22-420S
6	25	M30x2	20S	400	300	50	240	41	55	147	97	75	9347-22-620S	9348-22-620S	9349-22-620S
	25	M36x2	25S	400	300	50	240	41	55	151	99	77	9347-22-625S	9348-22-625S	9349-22-625S
	25	M42x2	30S	400	300	50	240	46	55	155	101	79	9347-22-630S	9348-22-630S	9349-22-630S





9348

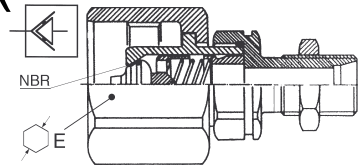
9347-9348

9349

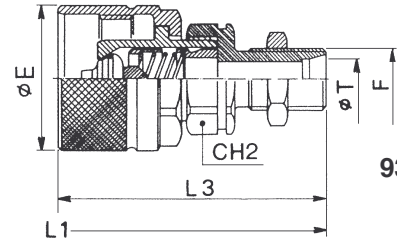
SCREW / VALVE

-25 / +125°C

Schroefkoppeling
Coupleur à visser
Screw coupling
Schraubkupplung

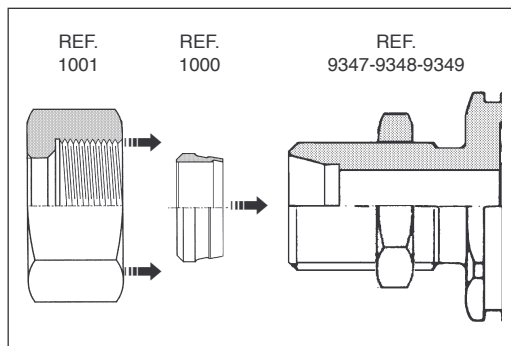


9347

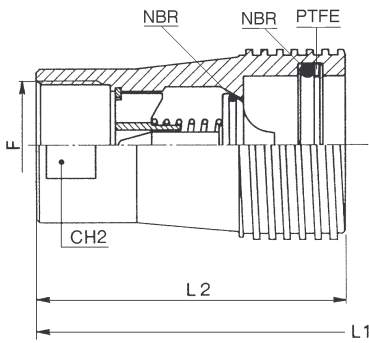


9349

DN	F METR.	ØT DIN 2353	BAR max. DIN 2353		REF. 9347 & 9348 BAR max.	mm ²	CH2	E	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.	Fe/Zn/YP REF.	
			BAR max. DIN 2353	BAR max. DIN 2353											
2	10	M14x1,5	8L	315	400		60	22	34	126	77	76		9348-25-208L	9349-25-208L
	10	M16x1,5	10L	315	400		60	22	34	126	77	76		9348-25-210L	9349-25-210L
	10	M18x1,5	12L	315	400		60	22	34	126	77	76		9348-25-212L	9349-25-212L
3	12	M14x1,5	8L	315	400		80	30	42	130	80	78		9348-25-308L	9349-25-308L
	12	M16x1,5	10L	315	400		80	30	42	130	80	78		9348-25-310L	9349-25-310L
	12	M18x1,5	12L	315	400		80	30	42	130	80	78		9348-25-312L	9349-25-312L
	12	M22x1,5	15L	315	400		80	30	42	132	81	79		9348-25-315L	9349-25-315L
	12	M26x1,5	18L	315	400		80	30	42	132	81	79		9348-25-318L	9349-25-318L
	12	M30x2	20L	315	400		150	36	47,5	154	96	89		9348-25-412L	9349-25-412L
4	20	M22x1,5	15L	315	400		150	36	47,5	156	97	90		9348-25-415L	9349-25-415L
	20	M26x1,5	18L	315	400		150	36	47,5	156	97	90		9348-25-418L	9349-25-418L
	20	M30x2	22L	160	400		150	36	47,5	170	104	97		9348-25-422L	9349-25-422L
	20	M30x2	22L	160	400		150	36	47,5	170	104	97		9348-25-422L	9349-25-422L
6	25	M26x1,5	18L	315	300	50	240	41	55	183	115	93	9347-25-618L	9348-25-618L	9349-25-618L
	25	M30x2	22L	160	300	50	240	41	55	183	115	93	9347-25-622L	9348-25-622L	9349-25-622L
	25	M36x2	28L	160	300	50	240	41	55	183	115	93	9347-25-628L	9348-25-628L	9349-25-628L
2	10	M16x1,5	8S	630	400		60	22	34	128	78	77		9348-25-208S	9349-25-208S
	10	M18x1,5	10S	630	400		60	22	34	128	78	77		9348-25-210S	9349-25-210S
	10	M20x1,5	12S	630	400		60	22	34	128	78	77		9348-25-212S	9349-25-212S
3	12	M16x1,5	8S	630	400		80	30	42	132	81	79		9348-25-308S	9349-25-308S
	12	M18x1,5	10S	630	400		80	30	42	132	81	79		9348-25-310S	9349-25-310S
	12	M20x1,5	12S	630	400		80	30	42	132	81	79		9348-25-312S	9349-25-312S
	12	M22x1,5	14S	630	400		80	30	42	136	83	81		9348-25-314S	9349-25-314S
	12	M24x1,5	16S	400	400		80	30	42	136	83	81		9348-25-316S	9349-25-316S
	12	M30x2	20S	400	400		80	30	42	136	83	81		9348-25-320S	9349-25-320S
4	20	M18x1,5	10S	630	400		150	36	47,5	156	97	90		9348-25-410S	9349-25-410S
	20	M22x1,5	14S	630	400		150	36	47,5	160	99	92		9348-25-414S	9349-25-414S
	20	M24x1,5	16S	400	400		150	36	47,5	160	99	92		9348-25-416S	9349-25-416S
	20	M30x2	20S	400	400		150	36	47,5	160	99	92		9348-25-420S	9349-25-420S
6	25	M30x2	20S	400	300	50	240	41	55	186	117	95	9347-25-620S	9348-25-620S	9349-25-620S
	25	M36x2	25S	400	300	50	240	41	55	191	119	97	9347-25-625S	9348-25-625S	9349-25-625S
	25	M42x2	30S	400	300	50	240	46	55	195	121	99	9347-25-630S	9348-25-630S	9349-25-630S



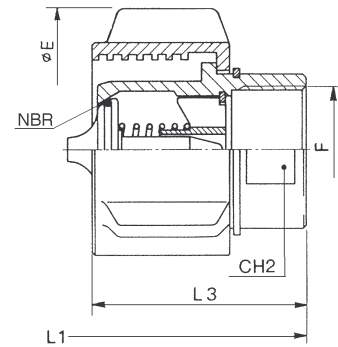
DIN 2353			
	Fe/Zn/YP REF.	Fe/Zn/YP REF.	Fe/Zn/YP REF.
8L	1000-08L	1001-08L	1009-08L
10L	1000-10L	1001-10L	1009-10L
12L	1000-12L	1001-12L	1009-12L
15L	1000-15L	1001-15L	1009-15L
18L	1000-18L	1001-18L	1009-18L
22L	1000-22L	1001-22L	1009-22L
28L	1000-28L	1001-28L	1009-28L
35L	1000-35L	1001-35L	1009-35L
8S	1000-08L	1001-08S	1009-08S
10S	1000-10L	1001-10S	1009-10S
12S	1000-12L	1001-12S	1009-12S
14S	1000-14S	1001-14S	1009-14S
16S	1000-16S	1001-16S	1009-16S
20S	1000-20S	1001-20S	1009-20S
25S	1000-25S	1001-25S	1009-25S
30S	1000-30S	1001-30S	1009-30S



9353
9354
SCREW WING / VALVE

-25 / +125°C

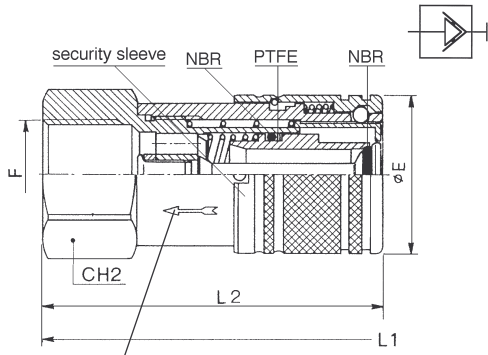
Schroefkoppeling
Coupleur à visser
Screw coupling
Schraubkupplung



5

DN	F BSPP*	BAR max.	mm ²	CH2	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
30	G1.1/4	160	350	48	98	138	103	73	9353-13-020	9354-13-020
40	G1.1/2	140	480	52	106	145	108	76	9353-13-024	9354-13-024
50	G2	120	1750	80	144	180	134	90	9353-13-032	9354-13-032

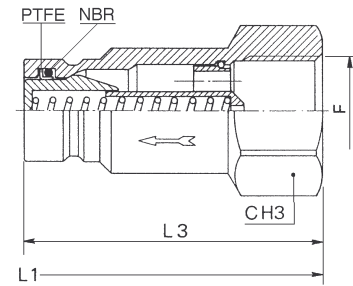
* NPTF



9355
9356
PUSH / FLAT FACE

-25 / +125°C

Snelkoppeling
Raccord rapide
Quick disconnect coupling
Schnellverschlusskupplung



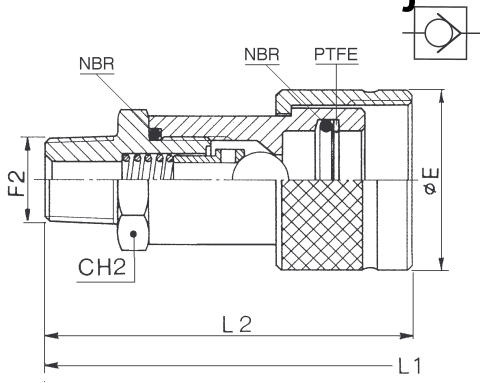
Voorkeur stroomrichting
Préférence de débit
Preference of flow direction
Vorzug Durchflussrichtung

9355

9356

	DN	F BSPP NPTF	BAR max.	LPM ±	cm ³	CH2	CH3	ØE	L1	L2	L3	Fe/Zn/YP REF.	Fe/Zn/YP REF.
1	6	G1/4	200	18	0,008	22	22	27	96	52,5	53,5	9355-13-104	9356-13-104
2*	12	G3/8	250	38	0,010	27	27	32	116	68	63,5	9355-13-206	9356-13-206
2*	12	G1/2	250	38	0,010	27	27	32	125	73	67,5	9355-13-208	9356-13-208
3	20	G3/4	200	75	0,012	36	36	38	138,5	84	72	9355-13-312	9356-13-312
4	25	G1	200	140	0,020	46	46	48	151	87,5	84,5	9355-13-416	9356-13-416
5	30	G1.1/4	200	200	0,030	55	55	55	174	106	90	9355-13-520	9356-13-620
1	6	1/4NPTF	200	18	0,008	22	22	27	96	52,5	53,5	9355-17-104	9356-17-104
2*	12	3/8NPTF	250	38	0,010	27	27	32	116	68	63,5	9355-17-206	9356-17-206
2*	12	1/2NPTF	250	38	0,010	27	27	32	125	73	67,5	9355-17-208	9356-17-208
3	20	3/4NPTF	200	75	0,012	36	36	38	138,5	84	72	9355-17-312	9356-17-312
4	25	1NPTF	200	140	0,020	46	46	48	151	87,5	84,5	9355-17-416	9356-17-416

* HTMA

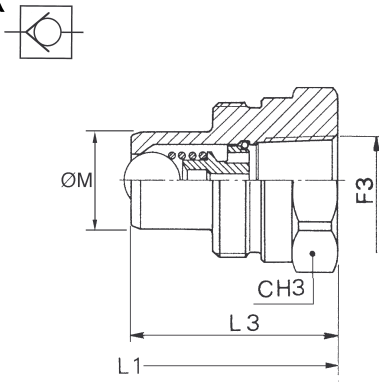


9357

9357
9358
SCREW HP / BALL

-25 / +120°C

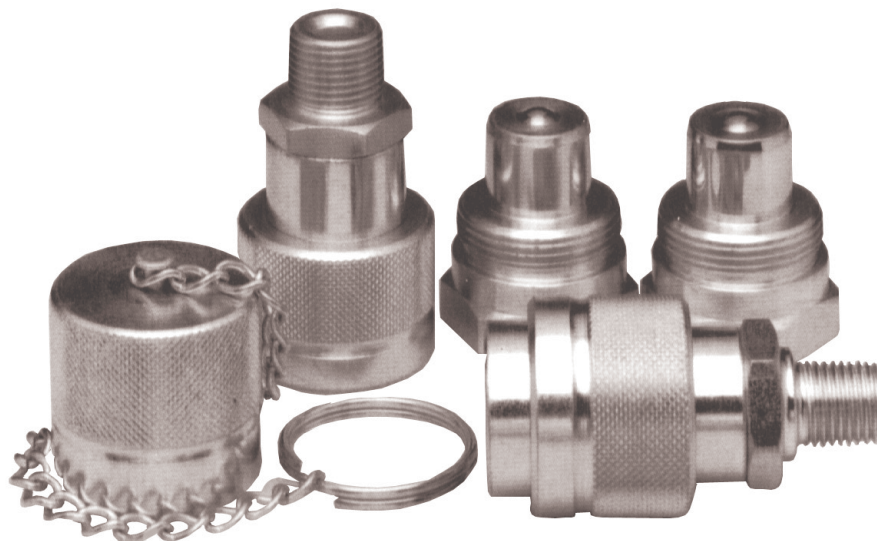
Schroefkoppeling
Coupleur à visser
Screw coupling
Schraubkupplung

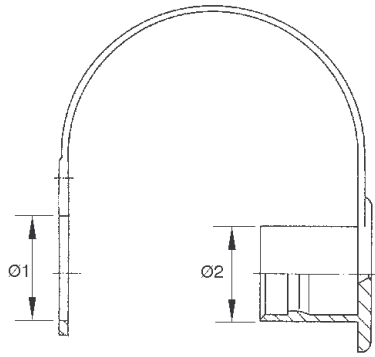


9358

	DN	F2 NPTF	F3 NPTF	BAR max.	mm ²	CH2	CH3	ØE	L1	L2	L3	ØM	Fe/Zn REF.	Fe/Zn REF.
1	6	1/4NPTF	1/4NPTF	700	16,5	22	19	30	81	60,5	39	16	9357-17-104	9358-17-104
2	6	1/4NPTF	1/4NPTF	700	16,5	24	32	35	89	74	40,5	19	9357-17-204	9358-17-204
2	10	3/8NPTF	3/8NPTF	700	19	24	32	35	86,5	71,5	40,5	19	9357-17-206	9358-17-206

	Alu REF.	Alu REF.
1	9357-1	9358-1
	Fe/Zn REF.	Fe/Zn REF.
2	9357-2	9358-2

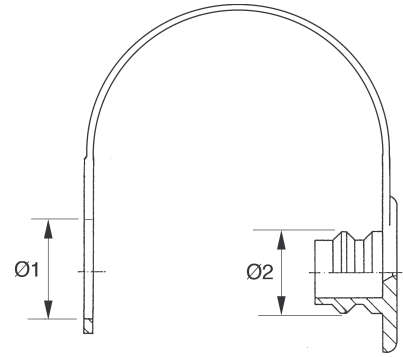




9360

9360
9361
 PUSH
 PUSH PULL

Stofkap
 Bouchon
 Dustcap
 Staubschutzteil

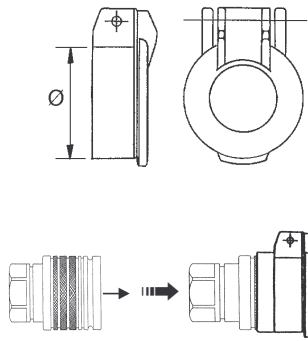


9361

5

	Ø1	Ø2	ISO 7241-1	PVC REF.
1	22	16	A-6,3	9360-1
2	22	22	A-10	9360-2
3	27	27,4	A-12,5	9360-3

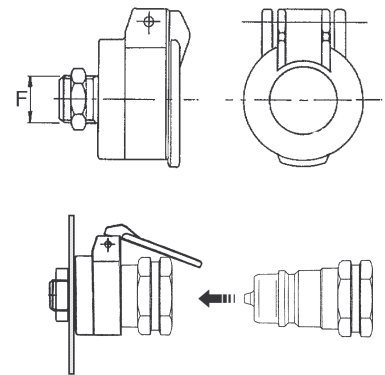
	Ø1	Ø2	ISO 7241-1	PVC REF.
1	22	12	A-6,3	9361-1
2	22	18,2	A-10	9361-2
3	27	24	A-12,5	9361-3



9365

9365
9366
 PUSH
 PUSH PULL

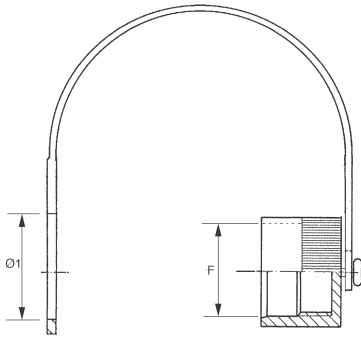
Stofklep - Stekkerhouder
 Corps de soupape - Boitier pour bouchon
 Dustcover - Plug holder
 Staubklappe - Steckerdose



9366

	Ø		PA REF.
3	38		9365-3

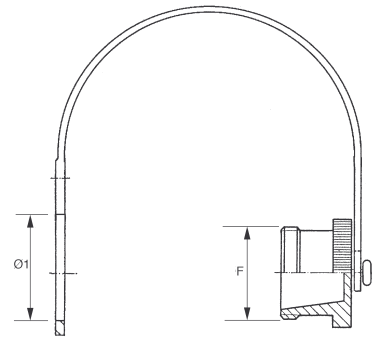
	F	ISO 7241-1	PA REF.
3	M18x1,5	A-12,5	9366-3



9380

**9380
9381
SCREW**

**Stofkap
Bouchon
Dustcap
Staubschutzteil**



9381

	Ø1	F	PE REF.
1	20,0	M24x2	9380-1
2	22,0	M28x2	9380-2
3	29,5	M36x2	9380-3
4	37,0	M42x2	9380-4
6	41,0	M48x3	9380-6

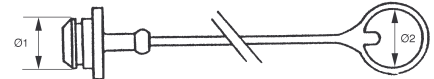
	Ø1	F	PE REF.
1	20,0	M24x2	9381-1
2	22,0	M28x2	9381-2
3	29,5	M36x2	9381-3
4	37,0	M42x2	9381-4
6	41,0	M48x3	9381-6



**9390
9392**

**9390/9391
9392/9393
PUSH
PUSH PULL**

**Stofkap
Bouchon
Dustcap
Staubschutzteil**



**9391
9393**

	Ø1	Ø2	ISO 7241-1	PVC REF.
1	21	21		9390-1
2	25,5	25		9390-2
3	29	27		9390-3
4	37	35		9390-4
5	40,5	41		9390-5
2	19,7	19	B-6,3	9392-2
3	25,2	27	B-10	9392-3
4	30,7	30	B-12,5	9392-4
5	38,5	41	B-20	9392-5
6	47	44	B-25	9392-6

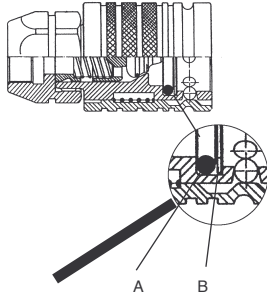
	Ø1	Ø2	ISO 7241-1	PVC REF.
1	17	21		9391-1
2	21,5	25		9391-2
3	24	27		9391-3
4	31	35		9391-4
5	34,5	41		9391-5
2	15,5	19	B-6,3	9393-2
3	20	27	B-10	9393-3
4	26	30	B-12,5	9393-4
5	32,5	41	B-20	9393-5
6	41	44	B-25	9393-6

ATZ Aandrijftechniek B.V. (026-3112611)

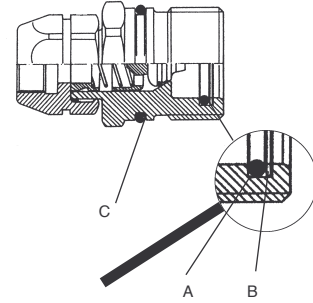
5

5.3÷5.15		5.16÷5.17			5.3÷5.15		5.16÷5.17		
REF.		PE REF.	PA REF.	PVC REF.	REF.		PE REF.	PA REF.	PVC REF.
9306	A	9306-3			9307	B, C, D	9307-3		
9308-	2	9361-2			9309-	2	9360-2		
9308-	3	9361-3	9365-3	9391-3	9309-	3	9360-3	9366-3	9390-3
9308-	5	9361-5			9309-	5	9360-5		9390-5
9318-	1	9361-1			9319-	1	9360-1		9390-1
9318-	2	9361-2			9319-	2	9360-2		9390-2
9318-	3	9361-3	9365-3	9391-3	9319-	3	9360-3	9366-3	9390-3
9318-	4			9391-4	9319-	4	9360-4		9390-4
9318-	5	9361-5			9319-	5	9360-5		9390-5
9328-	1	9361-1			9329-	1	9360-1		
9328-	2	9361-2			9329-	2	9360-2		
9328-	3	9361-3	9365-3	9391-3	9329-	3	9360-3	9366-3	9390-3
9328-	4			9391-4	9329-	4	9360-4		9390-4
9328-	5	9361-5			9329-	5	9360-5		9390-5
9333-	3	9361-3	9365-3	9391-3	9334-	3	9360-3	9366-3	9390-3
9338-	1			9391-1 / 9395-1	9339-	1			9390-1 / 9394-1
9338-	2			9391-2 / 9395-2	9339-	2			9390-2 / 9394-2
9338-	3	9361-3	9365-3	9391-3					
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9357-	1				9358-	1			
9357-	2	Alu REF.			9358-	2	Alu REF.		
		9357-1					9358-1		
		9357-2					9358-2		
9346-04 BSP				9391-1	9342-04 BSP				9390-1
9346-06 BSP				9391-2	9342-06 BSP				9390-2
9346-08 BSP				9391-3	9342-08 BSP				9390-3
9346-12 BSP				9391-4	9342-12 BSP				9390-4
9346-16 BSP				9391-5	9342-16 BSP				9390-5
9386-	1			9391-1 / 9395-1	9387-	1			9390-1 / 9394-1
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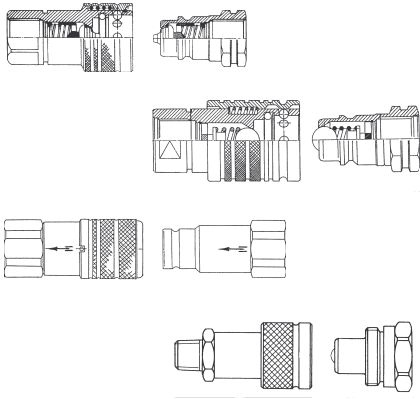
9395÷9398



Afdichtingsset
 Joints d'étanchéité
 Set sealing rings
 Dichtringsatz



REF.	REF.	A		B		C		REF.
		NBR I.D.xH	FKM (Viton®) I.D.xH	PTFE O.D.xl.D.xH	NBR I.D.xH	NBR I.D.xH		
9308-	2	17x2,5	-	21,5x17,3x1	-	-	9396-08-2	
9308-	3	20,22x3,53	-	26,8x20,55x1	-	-	9396-08-3	
9308-	6	34,59x2,62	-	38,8x34,35x1,2	-	-	9396-08-6	
9318-	1	11,91x2,62	-	16,35x12,6x0,8	-	-	9396-18-1	
9318-	2	17,12x2,62	-	21,9x17,3x1	-	-	9396-18-2	
9318-	3	20,24x2,62	-	25x20,55x1	-	-	9396-18-3	
9318-	4	28,24x2,62	-	33,6x29,1x1	-	-	9396-18-4	
9318-	5	34,59x2,62	-	38,8x34,35x1,2	-	-	9396-18-5	
9318-	6	44,45x3,53	-	51,12x45,05x2	-	-	9396-18-6	
9318-	7	53,98x3,53	-	61,12x55,05x2	-	-	9396-18-7	
9318-	8	65,09x3,53	-	71,2x65,20x2	-	-	9396-18-8	
9323/2323-	2	14x1,78	-	17,05x14,2x1,2	-	-	9396-23-2	
9323/2323-	3	18,72x2,62	-	23,55x19,1x1,2	-	-	9396-23-3	
9323/2323-	4	23x3	-	28,8x23,55x1	-	-	9396-23-4	
9323/2323-	5	31x3	-	36,5x31,4x1,5	-	-	9396-23-5	
9323/2323-	6	37,69x3,53	-	44x37,8x1,4	-	-	9396-23-6	
3323-	2	-	14X2	17,6x14x1	-	-	9398-23-2	
3323-	3	-	18X2	22,33x18,77x1	-	-	9398-23-3	
3323-	4	-	23X3	28x23,55x1	-	-	9398-23-4	
3323-	5	-	31X4	38,1x31,8x1,4	-	-	9398-23-5	
3323-	6	-	32,3X3,6	44x37,8x2	-	-	9398-23-6	
3323-	7	-	53,57X3,53	-	-	-	9398-23-7	
3323-	8	-	43,4X3,6	-	-	-	9398-23-8	
9326-	6	43,4x3,53	-	50,22x44x2	-	-	9396-26-6	
9326-	7	52,34x3,53	-	59,52x53,5x1,5	-	-	9396-26-7	
9326-	8	81,92x5,33	-	-	-	-	9395-26-8	
9328-	1	11,91x2,62	-	16,35x12,6x0,8	-	-	9396-18-1	
9328-	2	17,12x2,62	-	21,9x17x1	-	-	9396-18-2	
9328-	3	20,24x2,62	-	25x20,55x1	-	-	9396-18-3	
9328-	4	28,24x2,62	-	33,6x29,1x1	-	-	9396-18-4	
9328-	5	34,59x2,62	-	38,8x34,35x1,2	-	-	9396-18-5	
9333-	3	20,22x3,53	-	26,8x20,6x1	-	-	9396-08-3	
9338-	1	13,94x2,62	-	18,73x14,25x0,8	-	-	9396-38-1	
9338-	2	18,72x2,62	-	23,5x19x1	-	-	9396-38-2	
9338-	3	20,24x2,62	-	25x20,6x1	-	-	9396-38-3	
9338-	4	27,8x3,53	-	34,15x27,95x1,5	-	-	9396-38-4	
9338-	5	31,34x3,53	-	37,5x36,3x1,4	-	-	9396-38-5	
		NBR I.D.xH	FKM (Viton®) I.D.xH	PTFE O.D.xl.D.xH	NBR I.D.xH	REF.		
9348-	1	12x2	-	16x13x1	19x3	9397-48-1		
9348-	2	17x2	-	20,6x17,45x1	22x3	9397-48-2		
9348-	3	22x3	-	27,2x22x1	30x3	9397-48-3		
9348-	4	27,8x3,53	-	34,15x27,95x1,2	37x3	9397-48-4		
9348-	6	34,59x2,62	-	39,4x35x1,17	42,86x3,53	9397-48-6		



**Algemene informatie
Informations générales
General information
Allgemeine Information**

**Snelkoppeling
Raccord rapide
Quick disconnect coupling
Schnellverschlusskupplung**



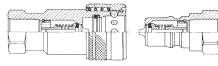
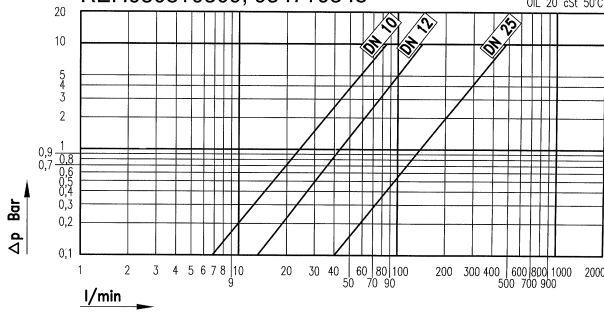
<p>Toepassing: Voor gebruik in hydraulische systemen met hydrauliek vloeistoffen op minerale- en glycolbasis, brandstofolie, benzine, lucht en water met anti-corrosie toevoegingen. Voor hydraulische systemen met hoge pulserende druken, gelieve ons te raadplegen. Snelkoppelingen mogen niet als draaibare koppeling toegepast worden.</p> <p>Typen: Met klep-, kogelafdichtingen of volle doorstroming. Diverse uitvoeringen volgens ISO-norm 7241-1 serie A of B.</p> <p>Afdichtingen: Standaard uitvoeringen voorzien van NBR O-ringen (85° shore, -25/+ 125°C) en PTFE steunring. Roestvaststalen koppelingen zijn standaard voorzien van FKM (Viton®) O-ringen (-30°/+ 200°C) en PTFE steunring. Overige typen zijn ook met FKM (Viton®) afdichtingen op aanvraag leverbaar.</p> <p>Materiaalsoorten: Staal; stekker en kogels gehard, klepuitvoering verzinkt geel gepassiveerd en kogel uitvoering verzinkt. Roestvaststaal geheel uit AISI 316, Messing Ms. 58.</p> <p>Veiligheidsfactor: 4x werkdruk (1:4), bij statische toepassing: 1:2 = barstdruk:2</p>	<p>Application: Pour utilisation dans les systèmes hydrauliques à base d'huiles minérales ou de glycol, huile de combustion, benzène, air et émulsions à base d'eau mélangée d'agents anti-corrosifs. Pour des systèmes hydrauliques à haute pression pulsative, veuillez nous consulter. Des raccords rapides sont pas prévu pour être utiliser comme raccord rotatif.</p> <p>Types: Avec clapets, valves sphériques ou à passage intégral. Différentes exécutions d'après la norme ISO 7241-1 série A ou B.</p> <p>Joint d'étanchéités: Exécutions standards munies de joints toriques NBR (85° dureté Shore, -25/+125°C) et joints de support en PTFE. Les raccords rapides sont équipés de joints toriques en FKM (Viton®) (-30°/+200°C) et de joints de support en PTFE. Sur demande nous pouvons livrer les autres types de raccords rapides avec joints en FKM (Viton®).</p> <p>Matières: Acier; raccord male et roulement à billes traité, zinguée passivé jaune pour type avec clapet et zinguée pour type avec sphère. Raccord en acier inoxydable norme AISI 316. Laiton Ms 58.</p> <p>Facteur de sécurité: 4x pression utilisée (1:4), application statique 1:2=pression rupture:2</p>
<p>Application: For use in hydraulic systems with hydraulic fluids based upon minerals and glycol. Fuel oil, petrol, air and water with anti-corrosion additions. For hydraulic systems with high impulse pressures, please consult us. Quick disconnect couplings may not be used as a swivel coupling.</p> <p>Types: With valve-, ball-seals or full flow. Various designs according to ISO-norm 7241-1 series A or B.</p> <p>Seals: Standard execution supplied with NBR O-rings (85° shore, -25° up to +125°C) and PTFE back-up ring. Stainless steel couplings are standard supplied with FKM (Viton®) O-rings (-30° up to +200°C) and PTFE back-up ring. On request also other types with FKM (Viton®) seals can be supplied.</p> <p>Types of material: Steel; hardened plugs and balls, valve design yellow zinc plated and ball design zinc plated. Stainless steel completely from AISI 316. Brass Ms 58.</p> <p>Safety factor: 4x working pressure (1:4), static application: 1:2 = burst pressure : 2</p>	<p>Anwendung: Für Gebrauch in hydraulischen Systemen mit Hydraulik Flüssigkeit auf Mineralen- und Glykolbasis, Brennöil, Benzin, Luft und Wasser mit Korrosionsschutz Zusatz. Für Hydraulik Anlagen mit hohen pulsierenden Drücken, bitte Kontakt mit uns aufnehmen. Schnellverschlußkupplungen dürfen nicht als drehbare Verschraubungen eingesetzt werden.</p> <p>Typen: Mit Ventil-, Kugeldichtung oder voller Durchfluss. Verschiedene Ausführungen laut ISO-Norm 7242-1 Reihe A oder B.</p> <p>Dichtungen: Standard Ausführungen versehen mit NBR O-Ring (85° shore, -25/+ 125°C) und PTFE Stützring. Edelstahl Kupplungen sind versehen mit FKM (Viton®) O-Ring (-30°/+ 200°C) und PTFE Stützring. Übrige Typen sind auch mit FKM (Viton®) Dichtungen lieferbar auf Anfrage.</p> <p>Werkstoffen: Stahl; Stecker und Kugel gehärtet, Ausführung mit Ventil verzinkt und gelb passiviert und Kugel Ausführung verzinkt. Edelstahl ganz aus AISI 316. Messing Ms 58.</p> <p>Sicherheitsfaktor: 4x Betriebsdruck (1:4), statischer Anwendung: 1:2 = Platzdruck : 2</p>

ΔP Drukverlies - Perte de charge - Pressure drop - Druckverlust



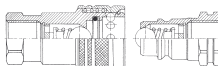
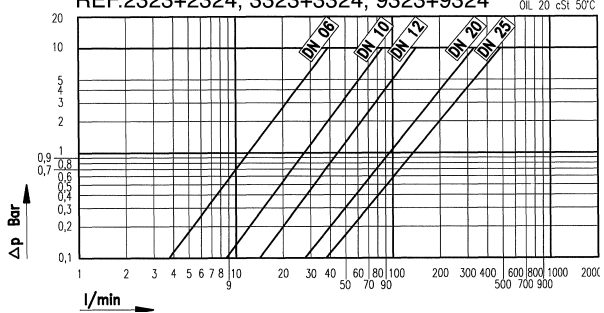
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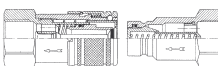
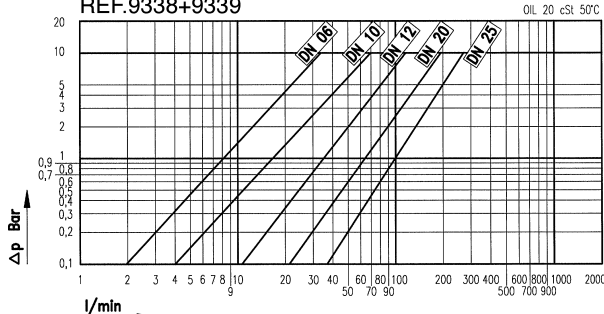
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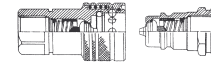
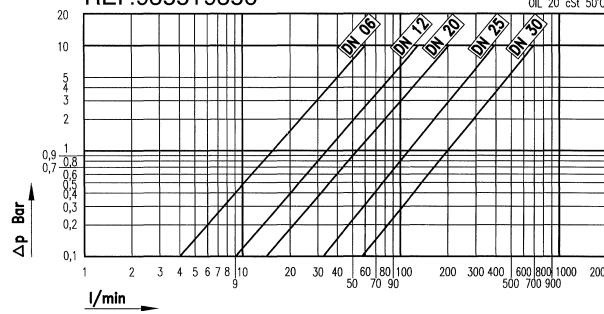
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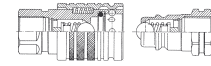
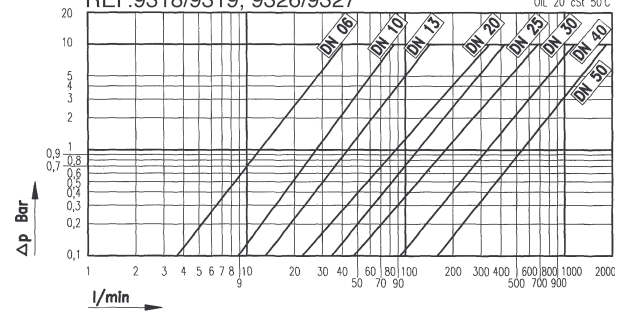
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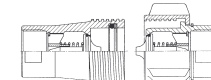
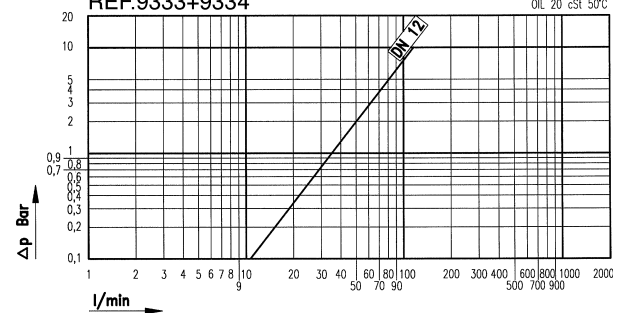
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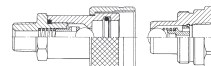
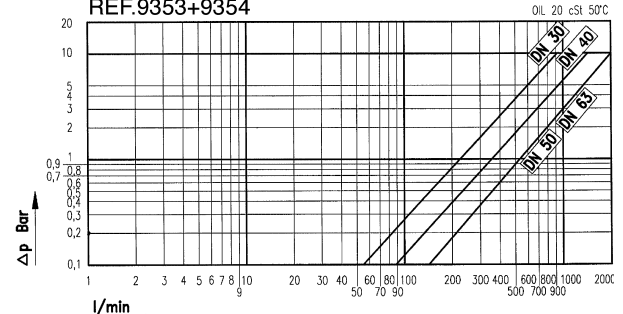
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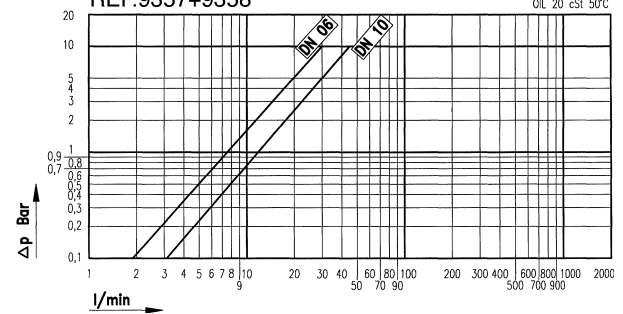
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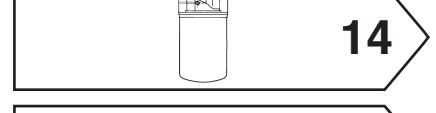
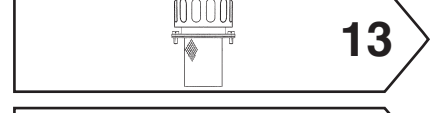
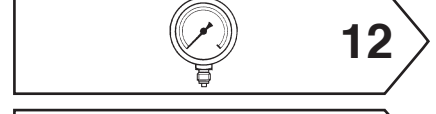
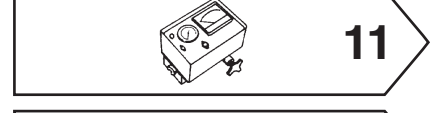
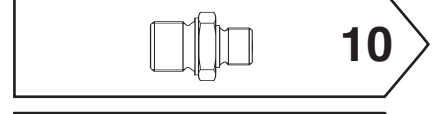
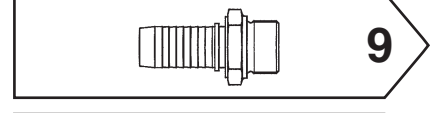
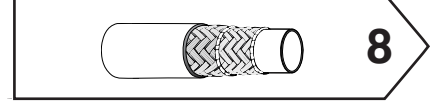
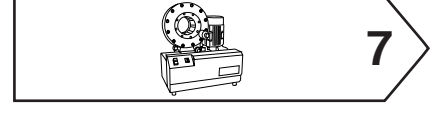
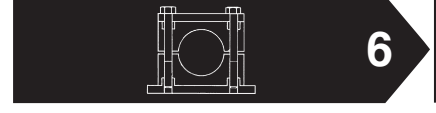
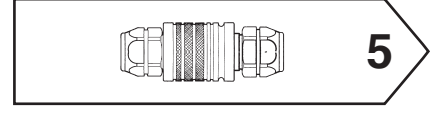
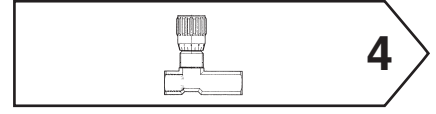
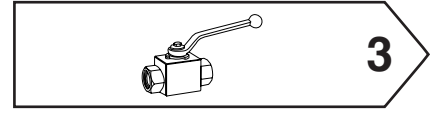
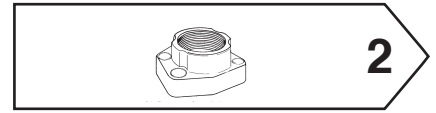
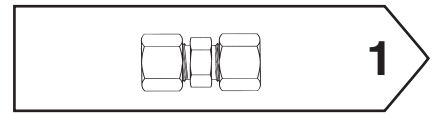
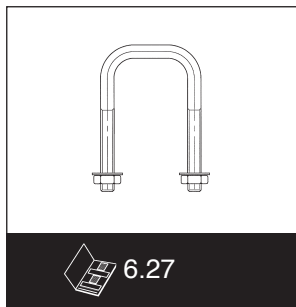
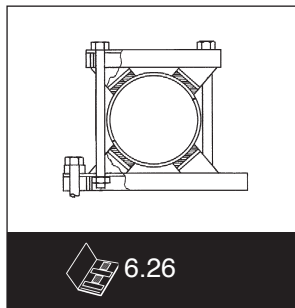
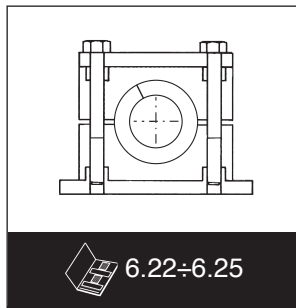
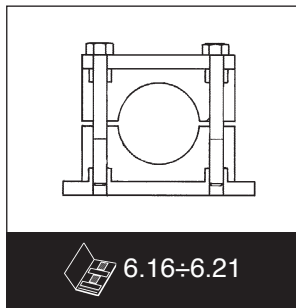
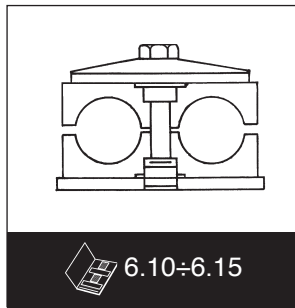
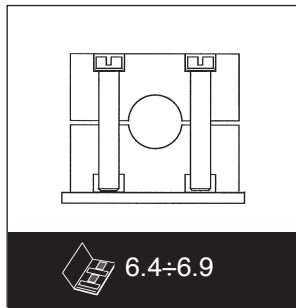
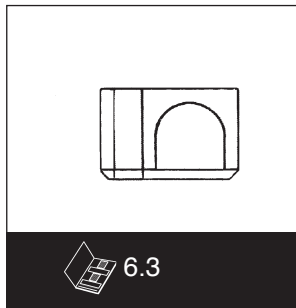


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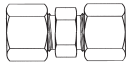


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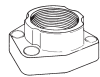


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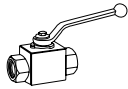
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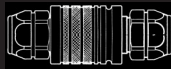
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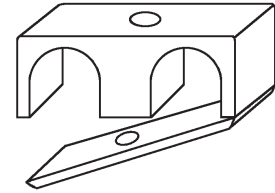
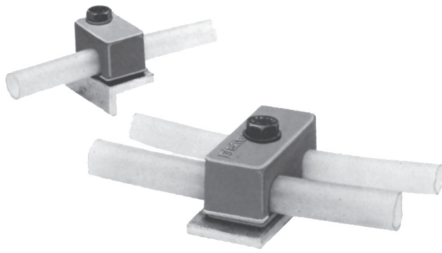
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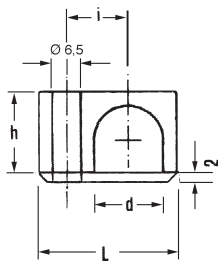
MINIFIX

Lichte serie
Série légère
Light series
Leichte Baureihe

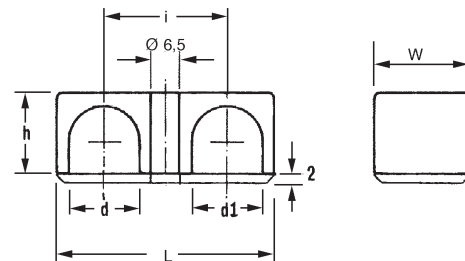


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	8		10	21	9,5	12	2900-1-0008
	10		18	28,5	13	20	2900-1-0010
	12		18	28,5	13	20	2900-1-0012
	15		18	28,5	13	20	2900-1-0015
2	4	4	10	31	19	12	2900-2-0404
	6	6	10	31	19	12	2900-2-0606
	8	8	10	31	19	12	2900-2-0808
	10	10	18	46	26	20	2900-2-1010
	12	12	18	46	26	20	2900-2-1212
	15	15	18	46	26	20	2900-2-1515
3	4	6	10	31	19	12	2900-3-0406
	4	8	10	31	19	12	2900-3-0408
	6	8	10	31	19	12	2900-3-0608
	10	12	18	46	26	20	2900-3-1012
	10	15	18	46	26	20	2900-3-1015
	12	15	18	46	26	20	2900-3-1215

6

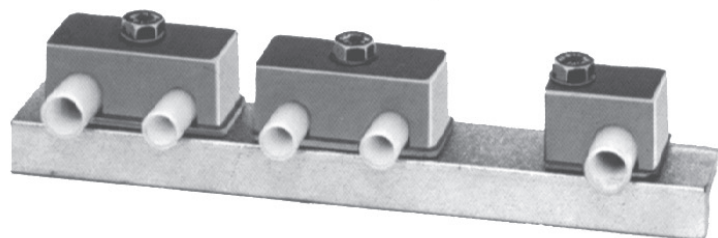
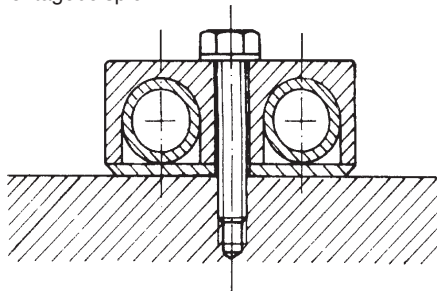


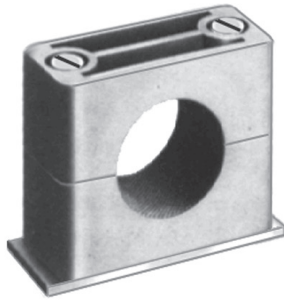
2900-1



2900-2
2900-3

Montage voorbeeld
Exemple de montage
Mounting example
Montagebeispiel

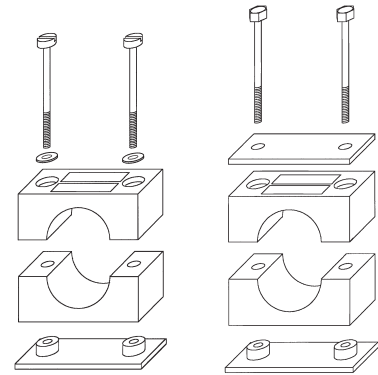




3900
3930

NORMAFIX


Standaard serie
Série standard
Standard series
Standard Baureihe

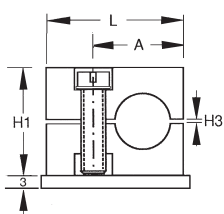


3900

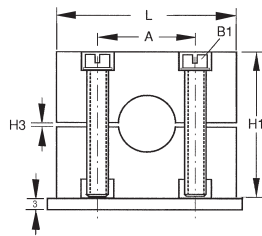
3930

6

Se				A	B1	B2	H1	H2	H3	L	(PP) REF.	(PP) REF.											
	mm	N.B.	O.D.																				
1	6	1/8"	1/4"	21	M6x22	M6x30	28	31	0,2	28	3900-01-06 3900-01-06.35 3900-01-07.93 3900-01-08 3900-01-09.52 3900-01-10 3900-01-12 3900-01-12.7 3900-01-13G	3930-01-06 3930-01-06.35 3930-01-07.93 3930-01-08 3930-01-09.52 3930-01-10 3930-01-12 3930-01-12.7 3930-01-13G											
	6,35		5/16"																				
	7,93		3/8"																				
	8		1/2"																				
	9,52																						
	10																						
	12																						
12,7																							
13,25																							
2	6	1/8"	1/4"	20	M6x22	M6x30	28	31	0,2	37	3900-02-06 3900-02-06.35 3900-02-07.93 3900-02-08 3900-02-09.52 3900-02-10 3900-02-12 3900-02-12.7 3900-02-13G	3930-02-06 3930-02-06.35 3930-02-07.93 3930-02-08 3930-02-09.52 3930-02-10G 3930-02-12 3930-02-12.7 3930-02-13G											
	6,35		5/16"																				
	7,93		3/8"																				
	8		1/2"																				
	9,52																						
	10																						
	12																						
12,7																							
13,25																							
3	13,25	3/8"	5/8"	26	M6x28	M6x35	33	36	0,5	43	3900-03-13G 3900-03-14 3900-03-15 3900-03-15.87 3900-03-16 3900-03-17G 3900-03-18	3930-03-13G 3930-03-14 3930-03-15 3930-03-15.87 3930-03-16 3930-03-17G 3930-03-18											
	14																						
	15																						
	15,87																						
	16																						
	16,75																						
	18																						
4	19,05	1/2"	3/4"	33	M6x30	M6x40	36	39	0,5	50	3900-04-19.05 3900-04-20 3900-04-21G 3900-04-22 3900-04-23 3900-04-25 3900-04-25.4	3930-04-19.05 3930-04-20 3930-04-21G 3930-04-22 3930-04-23 3930-04-25 3930-04-25.4											
	20																						
	21,25																						
	22																						
	23																						
	25																						
	25,4		1"																				
5	26,75	3/4"	1.1/4"	40	M6x40	M6x50	44	47	0,5	57	3900-05-27G 3900-05-28 3900-05-30 3900-05-31.75 3900-05-32	3930-05-27G 3930-05-28 3930-05-30 3930-05-31.75 3930-05-32											
	28																						
	30																						
	31,75																						
	32																						
	6		32										1.1/4"	1.1/2"	52	M6x50	M6x60	57	60	0,5	69,5	3900-06-32 3900-06-33G 3900-06-35 3900-06-38 3900-06-40 3900-06-42G 3900-06-45	3930-06-32 3930-06-33G 3930-06-35 3930-06-38 3930-06-40 3930-06-42G 3930-06-45
			33,5																				
35																							
38																							
40																							
42																							
45																							
7	44,5	1.1/2"	1.3/4"	66	M6x60	M6x70	66	69	0,5	86	3900-07-44.5 3900-07-49G 3900-07-50 3900-07-50.8 3900-07-54	3930-07-44.5 3930-07-49G 3930-07-50 3930-07-50.8 3930-07-54											
	48																						
	50																						
	50,8		2"																				
	54																						
	8		57,2										2"	2.1/4"	94	M6x85	M6x100	93	98	2	121	3900-08-57 3900-08-60G 3900-08-63 3900-08-70 3900-08-73 3900-08-76G	3930-08-57 3930-08-60G 3930-08-63 3930-08-70 3930-08-73 3930-08-76G
			60,3											2.1/2"									
63,5		2.3/4"																					
70																							
73																							
76,1		3"																					
9		88,9	3"	3.1/2"	120	M6x110	M6x125	118	123	3	147	3900-09-90G 3900-09-102		3930-09-90G 3930-09-102									
	102	4"																					



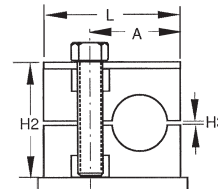
3900-01



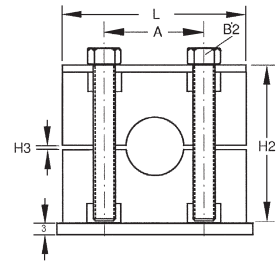
3900-02+07



3900+3930



3930-01



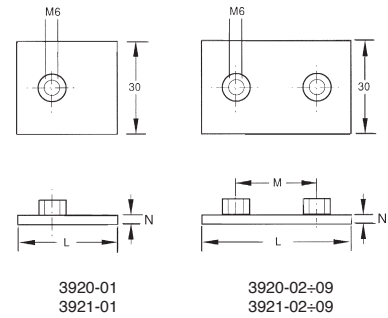
3930-02+07

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Se	L	M	N	Fe/Zn/YP REF.	AISI 316L REF.
1	32	-	3	3920-01	3921-01
2	41	20	3	3920-02	3921-02
3	47	26	3	3920-03	3921-03
4	54	33	3	3920-04	3921-04
5	61	40	3	3920-05	3921-05
6	73	52	3	3920-06	3921-06
7	88	66	3	3920-07	3921-07
8	122	94	5	3920-08	3921-08
9	148	120	5	3920-09	3921-09

**3920
3921**

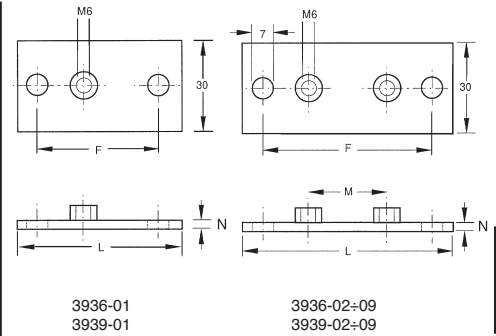
**Standaard lasplaat
Plaque à souder standard
Standard weldplate
Standard Anschweißplatte**



Se	L	M	F	N	Fe/Zn/YP REF.	AISI 316L REF.
1	54	-	40	3	3936-01	3939-01
2	64	20	50	3	3936-02	3939-02
3	70	26	56	3	3936-03	3939-03
4	78	33	64	3	3936-04	3939-04
5	87	40	73	3	3936-05	3939-05
6	100	52	86	3	3936-06	3939-06
7	114	66	100	3	3936-07	3939-07
8	150	94	136	5	3936-08	3939-08
9	178	120	162	5	3936-09	3939-09

**3936
3939**

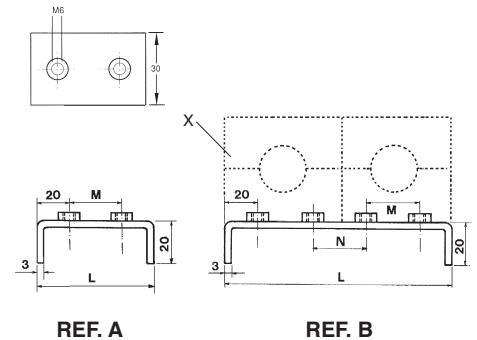
**Verlengde lasplaat
Plaque à souder allongée
Allongated weldplate
Anschweißplatte, verlängert**



Se	X	L	M	N	Fe/Zn/YP REF. A	AISI 316L REF. A
4	1	73	33	-	3922-04	3923-04
5	1	80	40	-	3922-05	3923-05
6	1	92	52	-	3922-06	3923-06
7	1	106	66	-	3922-07	3923-07
					REF. B	REF. B
4	2	124	33	18	3922-04-02	3923-04-02
4	4	226	33	18	3922-04-04	3923-04-04
5	2	138	40	18	3922-05-02	3923-05-02
6	2	162	52	18	3922-06-02	3923-06-02
7	2	193	66	21	3922-07-02	3923-07-02

**3922
3923**

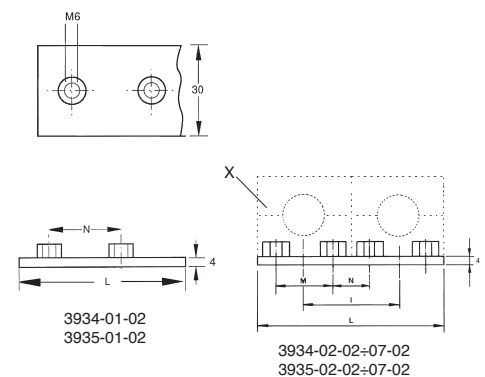
**(Dubbele) Opbouw lasplaat
Plaque à souder (double) en équerre
(Double) Construction weldplate
(Doppel) Aufbau Anschweißplatte**



Se	X	I	L	M	N	Fe/Zn/YP REF.	AISI 316L REF.
1	2	28	62	-	28	3934-01-02	3935-01-02
2	2	39	80	20	18	3934-02-02	3935-02-02
3	2	45	92	26	18	3934-03-02	3935-03-02
4	2	52	106	33	18	3934-04-02	3935-04-02
5	2	59	120	40	18	3934-05-02	3935-05-02
6	2	72	144	52	18	3934-06-02	3935-06-02
7	2	86	173	66	21	3934-07-02	3935-07-02

**3934
3935**

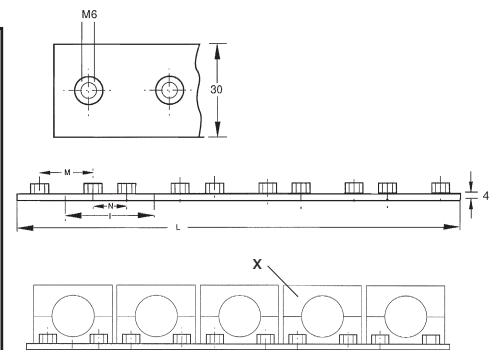
**Dubbele lasplaat (kort)
Plaque à souder double (courte)
Double weldplate (short)
Doppelanschweißplatte (kurz)**



Se	X	I	L	M	N	Fe/Zn/YP REF.	AISI 316L REF.
1	10	28	285	28	-	3934-01-10	3935-01-10
2	10	39	384	20	18	3934-02-10	3935-02-10
3	10	45	444	26	18	3934-03-10	3935-03-10
4	10	52	514	33	18	3934-04-10	3935-04-10
5	5	59	294	40	18	3934-05-05	3935-05-05
6	5	72	354	52	18	3934-06-05	3935-06-05
7	5	86	442	66	21	3934-07-05	3935-07-05

**3934
3935**

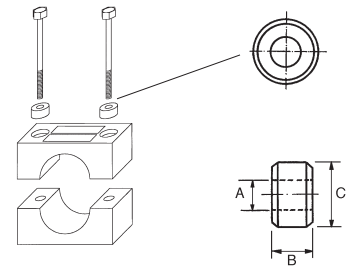
**Meervoudige lasplaat
Plaque à souder multiple
Series weldplate
Reihenanschweißplatte**



Se	A	B	C	Fe/Zn/YP REF.	AISI 316L REF.
1					
2					
3					
4	6,5	8	11,5	3927	3927-20
5					
6					
7					
8					
9					

3927

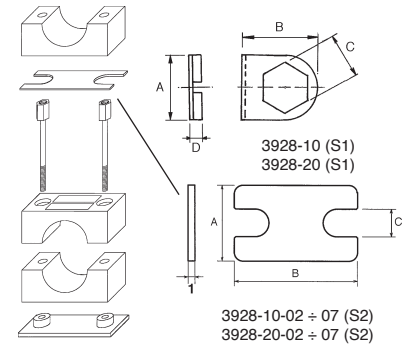
**Opvulring
Rondelle
Insert spacer
Einlagestück**



Se	A	B	C	D	Fe/Zn/YP REF.	AISI 316L REF.
1	20	20	11	3	3928-10	3928-20
2	28	33	10,5	1	3928-10-02	3928-20-02
3	28	39	10,5	1	3928-10-03	3928-20-03
4	28	47	10,5	1	3928-10-04	3928-20-04
5	28	54	10,5	1	3928-10-05	3928-20-05
6	28	66	10,5	1	3928-10-06	3928-20-06
7	28	82	10,5	1	3928-10-07	3928-20-07
8	28	117	10,5	1	3928-10-08	3928-20-08
9	28	143	10,5	1	3928-10-09	3928-20-09

3928

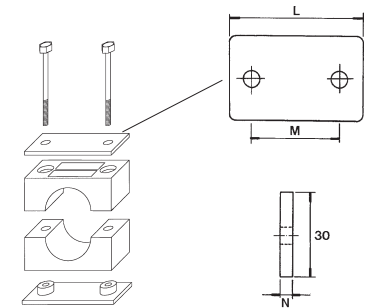
**Borgplaat
Plaque de blocage
Locking plate
Sicherungsblech**



Se	L	M	N	Fe/Zn/YP REF.	AISI 316L REF.
1	27,5	-	3	3937-01	3938-01
2	35	20	3	3937-02	3938-02
3	41	26	3	3937-03	3938-03
4	48	33	3	3937-04	3938-04
5	56	40	3	3937-05	3938-05
6	69,5	52	3	3937-06	3938-06
7	85,5	66	3	3937-07	3938-07
8	118	94	5	3937-08	3938-08
9	144	120	5	3937-09	3938-09

**3937
3938**

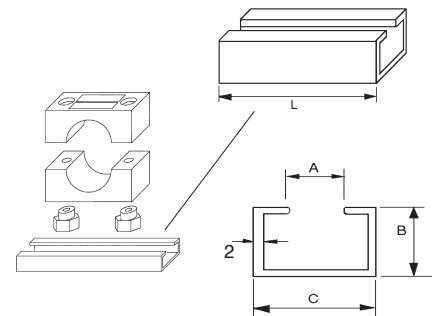
**Bovenplaat
Plaque supérieure
Cover plate
Deckplatte**



Se	L	A	B	C	Fe/Zn REF.	AISI 316L REF.
1						
2						
3	2m	12	14	28	3940-02	3941-02
4	2m	12	30	28	3940-03	
5						
6						
7						
8						
9						

**3940
3941**

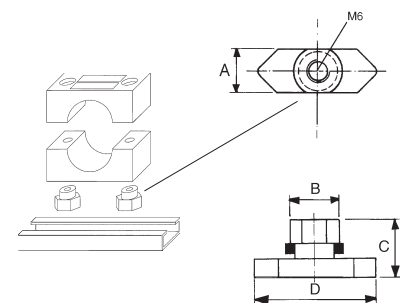
**Montagerail
Rail de fixation
Mounting rail
Tragschiene**



Se	A	B	C	D	AI REF.	AISI 316L REF.
1						
2						
3						
4	11	12	17	24,5	3944-10	3944-20
5						
6						
7						
8						
9						

3944

**Railmoer voor 3940/41
Écrou pour 3940/41
Rail nut for 3940/41
Mutter für 3940/41**

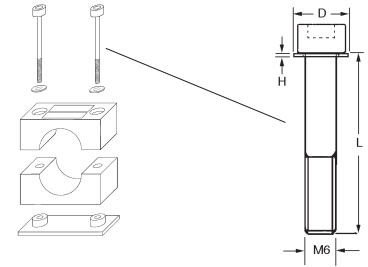


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Se	L	D	H	Fe/Zn/YP REF.	AISI 316L REF.
1	22	11	1,6	3910-01	3912-01
2	22	11	1,6	3910-01	3912-01
3	25	11	1,6	3910-03	3912-03
4	30	11	1,6	3910-04	3912-04
5	40	11	1,6	3910-05	3912-05
6	50	11	1,6	3910-06	3912-06
7	60	11	1,6	3910-07	3912-07
8	85	11	1,6	3910-08	3912-08
9	110	11	1,6	3910-09	3912-09

**3910
3912**

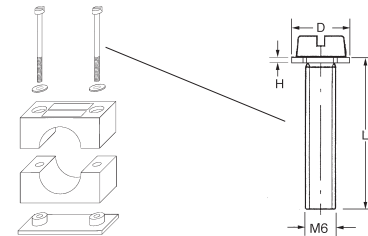
Cylinderschroeven met binnenzeskant
Vis a tête cylindrique a six pans creux
Hexagon socket head cap screw
Zylinderschraube mit Innensechskant



Se	L	D	H	Fe/Zn/YP REF.	AISI 316L REF.
1	22	11	1,6	3911-01	3913-01
2	22	11	1,6	3911-01	3913-01
3	25	11	1,6	3911-03	3913-03
4	30	11	1,6	3911-04	3913-04
5	40	11	1,6	3911-05	3913-05
6	50	11	1,6	3911-06	3913-06
7	60	11	1,6	3911-07	3913-07
8	85	11	1,6	3911-08	3913-08
9	110	11	1,6	3911-09	3913-09

**3911
3913**

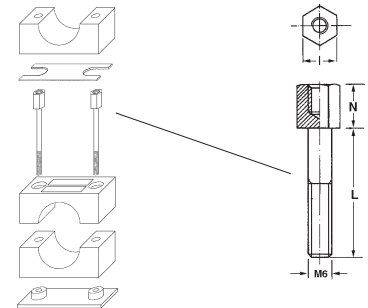
Cylinderschroeven met zaaggleuf
Vis a tête cylindrique fendue
Slotted cheese head screw
Zylinderschraube mit Schlitz



Se	L	N	I	Fe/Zn/YP REF.	AISI 316L REF.
1	21	14	10	3950-01	3951-01
2	21	14	10	3950-01	3951-01
3	27	14	10	3950-03	3951-03
4	29	14	10	3950-04	3951-04
5	39	14	10	3950-05	3951-05
6	49	14	10	3950-06	3951-06
7	59	14	10	3950-07	3951-07
8	80	14	10	3950-08	-
9	110	14	10	3950-09	-

**3950
3951**

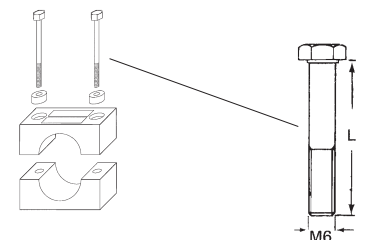
Opbouwschroef
Vis intermédiaire d'empilage
Stacking bolt
Aufbauschraube



Se	L				Fe/Zn REF.	AISI 316L REF.
1	30				3967-01	3969-01
2	30				3967-01	3969-01
3	35				3967-03	3969-03
4	35				3967-03	3969-03
5	45				3966-05	3968-05
6	55				3966-06	3968-06
7	70				3967-07	3969-07
8	100				3967-08	3969-08
9	125				3967-09	3969-09

**3966 3967
3968 3969**

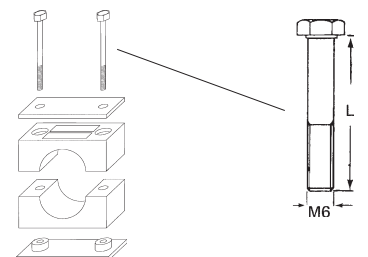
Bout voor 3927
Boulon pour 3927
Bolt for 3927
Schraube für 3927



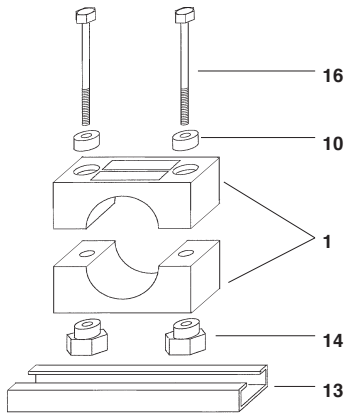
Se	L				Fe/Zn/YP REF.	AISI 316L REF.
1	30				3967-01	3969-01
2	30				3967-01	3969-01
3	35				3967-03	3969-03
4	40				3967-04	3969-04
5	50				3967-05	3969-05
6	60				3967-06	3969-06
7	70				3967-07	3969-07
8	100				3967-08	3969-08
9	125				3967-09	3969-09

**3967
3969**

Standaard bout voor 3937
Boulon standard pour 3937
Standard bolt for 3937
Standardschraube für 3937

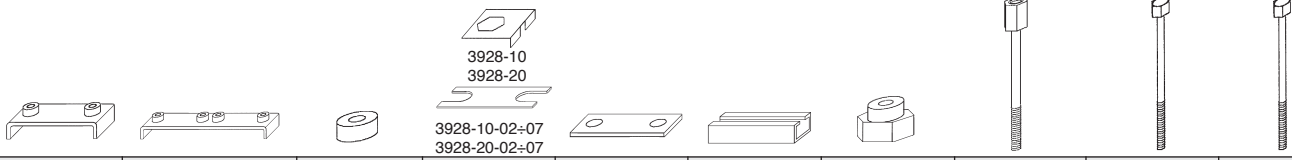
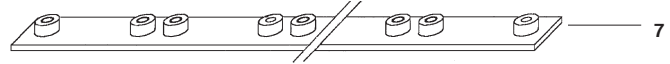
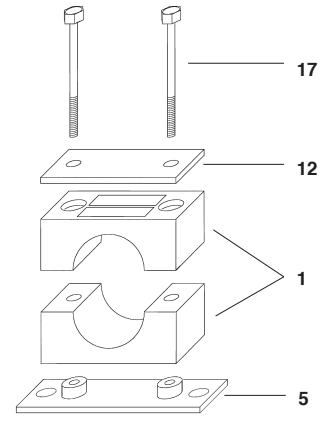


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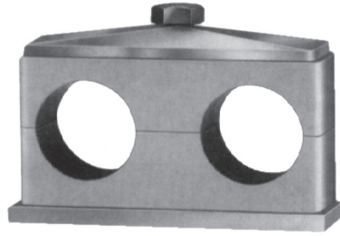


3900
3930

NORMAFIX
Onderdelen
Pièces détachées
Spare parts
Einzelteile



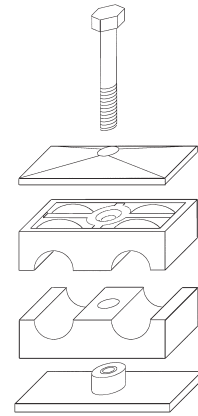
8		9		10		11		12		13		14		15		16		17	
Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn REF.	AISI 316L REF.	Al REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn REF.	AISI 316L REF.	Fe/Zn REF.	AISI 316L REF.
				3927	3927-20	3928-10	3928-20	3937-01	3938-01	3940-02	3941-02	3944-10	3944-20	3950-01	3951-01	3967-01	3969-01	3967-01	3969-01
				3927	3927-20	3928-10-02	3928-20-02	3937-02	3938-02	3940-02	3941-02	3944-10	3944-20	3950-01	3951-01	3967-01	3969-01	3967-01	3969-01
				3927	3927-20	3928-10-03	3928-20-03	3937-03	3938-03	3940-02	3941-02	3944-10	3944-20	3950-03	3951-03	3967-03	3969-03	3967-03	3969-03
3922-04	3923-04	3922-04-02 3922-04-04	3923-04-02 3923-04-04	3927	3927-20	3928-10-04	3928-20-04	3937-04	3938-04	3940-02	3941-02	3944-10	3944-20	3950-04	3951-04	3967-03	3969-03	3967-04	3969-04
3922-05	3923-05	3922-05-02	3923-05-02	3927	3927-20	3928-10-05	3928-20-05	3937-05	3938-05	3940-02	3941-02	3944-10	3944-20	3950-05	3951-05	3966-05	3968-05	3967-05	3969-05
3922-06	3923-06	3922-06-02	3923-06-02	3927	3927-20	3928-10-06	3928-20-06	3937-06	3938-06	3940-02	3941-02	3944-10	3944-20	3950-06	3951-06	3966-06	3968-06	3967-06	3969-06
3922-07	3923-07	3922-07-02	3923-07-02	3927	3927-20	3928-10-07	3928-20-07	3937-07	3938-07	3940-02	3941-02	3944-10	3944-20	3950-07	3951-07	3967-07	3969-07	3967-07	3969-07
				3927	3927-20	3928-10-08	3928-20-08	3937-08	3938-08	3940-02	3941-02	3944-10	3944-20	3950-08		3967-08	3969-08	3967-08	3969-08
				3927	3927-20	3928-10-09	3928-20-09	3937-09	3938-09	3940-02	3941-02	3944-10	3944-20	3950-09		3967-09	3969-09	3967-09	3969-09




3930

TWINFIX

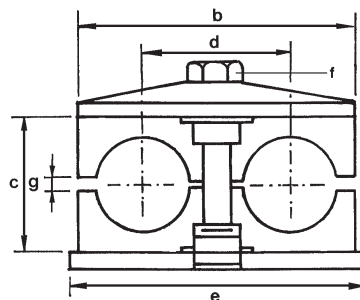
Standaard serie dubbel
Série standard double
Double standard series
Standard Baureihe doppel



6

Se				b	c	d	e	f	g	(PP) REF.
	mm*	N.B.	O.D.							
1	6	1/8"	3/8"	36	27	20	37	M6x35	0,6	3930-12-06 3930-12-06.35 3930-12-08 3930-12-09.52 3930-12-10 3930-12-12 3930-12-12.7
	6,35									
	8									
	9,52									
	10									
	12									
12,7	1/2"									
2	12,7	3/8"	5/8"	54	26	29	55	M8x35	0,8	3930-22-12.7 3930-22-13G 3930-22-14 3930-22-15 3930-22-15.87 3930-22-16 3930-22-17G 3930-22-18
	13,25									
	14									
	15									
	15,87									
	16									
16,75	1/4"									
18	3/4"									
3	19,05	1/2"	1"	67	37	36	70	M8x45	1,0	3930-32-19.05 3930-32-20 3930-32-21G 3930-32-22 3930-32-23 3930-32-25 3930-32-25.4
	20									
	21,25									
	22									
	23									
	25									
25,4	3/4"									
4	26,75	3/4"		81	42	45	85	M8x50	1,0	3930-42-27G 3930-42-28 3930-42-30
	28									
	30									
5	31,75	1"	1.1/4"	106	53	56	110	M8x60	1,2	3930-52-31.75 3930-52-32 3930-52-33G 3930-52-35 3930-52-38 3930-52-40 3930-52-42G
	32									
	33,5									
	35		1.1/2"							
	38									
	40									
42	1.1/4"									

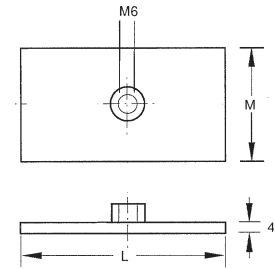
* Op aanvraag met verschillende diameters
Sur demande avec différents diamètres
On request with different diameters
Auf Anfrage mit unterschiedlichen Rohrdurchmessern



Se	L	M	F	Fe/Zn/YP REF.	AISI 316L REF.
1	37	30	M6	3920-12	3921-12
2	55	30	M8	3920-22	3921-22
3	70	30	M8	3920-32	3921-32
4	85	30	M8	3920-42	3921-42
5	110	30	M8	3920-52	3921-52

3920
3921

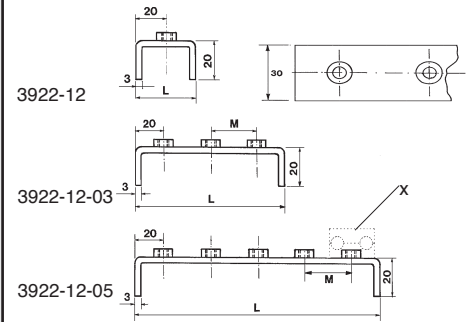
Standaard lasplaat
Plaque à souder standard
Standard weldplate
Standard Anschweisplatte



Se	X	L	M	Fe/Zn/YP REF.	AISI 316L REF.
1	1	56		3922-12	3923-12
1	3	130	37	3922-12-03	3923-12-03
1	5	204	37	3922-12-05	3923-12-05

3922
3923

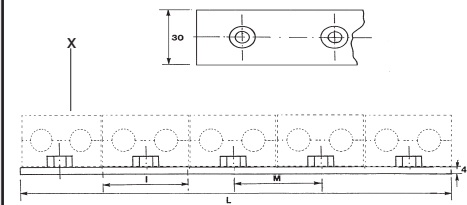
Opbouw lasplaat
Plaque à souder en équerre
Construction weldplate
Aufbau Anschweißplatte



Se	x	i	L	M	O	Fe/Zn/YP REF.	AISI 316L REF.
1	5	20	194	37	23	3934-12-05	
2	5	29	294	58	31	3934-22-05	
3	5	36	364	72	38	3934-32-05	
4	5	45	454	90	47	3934-42-05	
5	5	56	564	112	58	3934-52-05	

3934

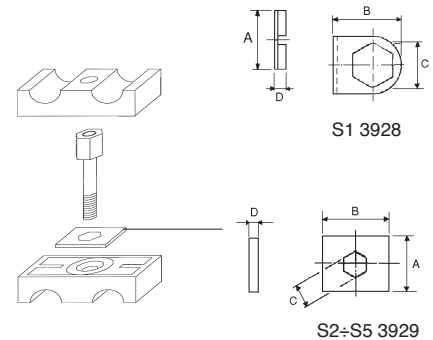
Meervoudige lasplaat
Plaque à souder multiple
Series weldplate
Reihenanschweisplatte



Se	A	B	C	D	Fe/Zn/YP REF.	AISI 316L REF.
1	20	20	11	3	3928-10	3928-20
2	23	28	12,5	2,5	3929-10	
3	23	28	12,5	2,5	3929-10	
4	23	28	12,5	2,5	3929-10	
5	23	28	12,5	2,5	3929-10	

3928
3929

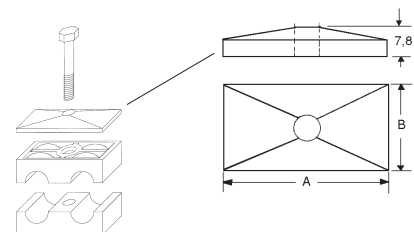
Borgplaat
Plaque de blocage
Locking plate
Sicherungsblech



Se	A	B	Fe/Zn/YP REF.	AISI 316L REF.
1	36	30	3937-12	3938-12
2	53	30	3937-22	3938-22
3	67	30	3937-32	3938-32
4	82	30	3937-42	3938-42
5	106	30	3937-52	3938-52

3937
3938

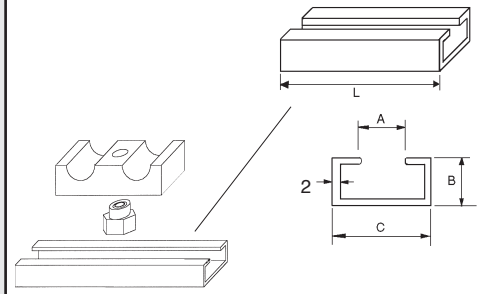
Bovenplaat
Plaque supérieure
Cover plate
Deckplatte



Se	L	A	B	C	Fe/Zn/YP REF.	AISI 316L REF.
1						
2	2M	12	14	28	3940-02	3941-02
3		12	30	28	3940-03	
4						
5						

3940
3941

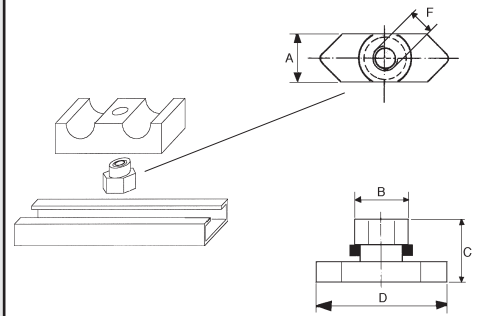
Montagerail
Rail de fixation
Mounting rail
Tragschiene



Se	A	B	C	D	F	ALU REF.	AISI 316L REF.
1	11	12	17	24,5	M6	3944-10	3944-20
2	11	14	17	24,5	M8	3945-10	
3	11	14	17	24,5	M8	3945-10	
4	11	14	17	24,5	M8	3945-10	
5	11	14	17	24,5	M8	3945-10	

3944
3945

Railmoer voor 3940/41
Ecrou pour 3940/41
Rail nut for 3940/41
Mutter für 3940/41

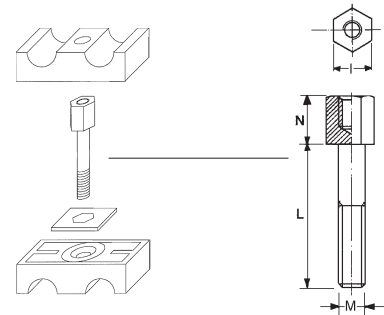


6

Se	L	M	N	I	Fe/Zn/YP REF.	AISI 316L REF.
1	21	M6	14	10	3950-01	3951-01
2	19,5	M8	15,5	12	3950-22	
3	29	M8	18	12	3950-32	
4	33	M8	18	12	3950-42	
5	45	M8	18	12	3950-52	

3950
3951

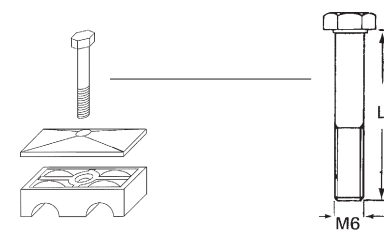
Opbouwschroef
Vis intermédiaire d'empilage
Stacking bolt
Aufbauschraube



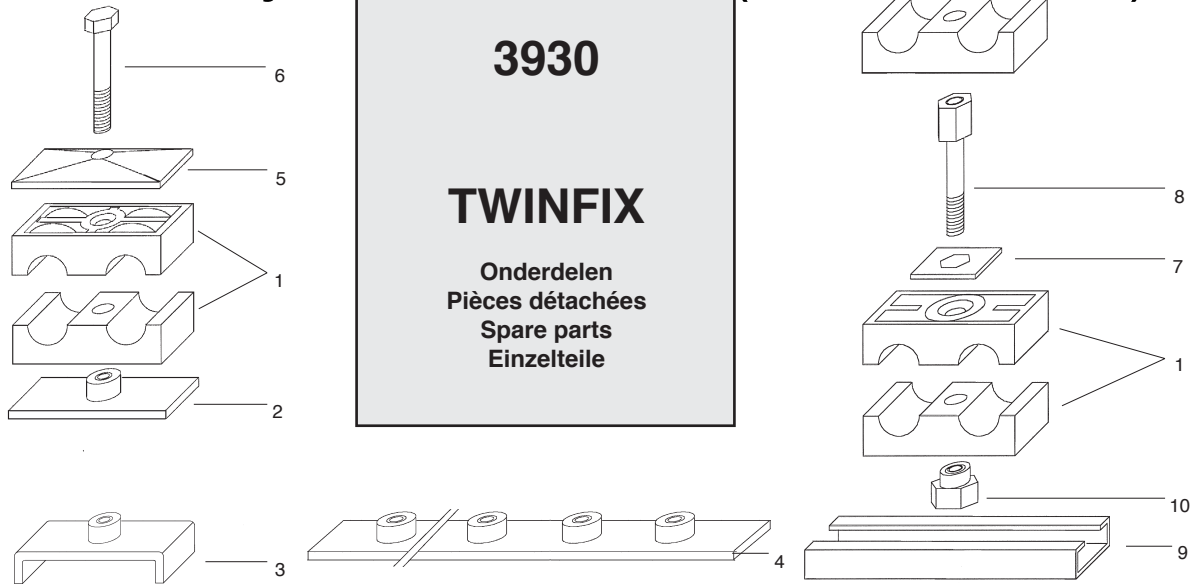
Se	L	M	Fe REF.	AISI 316L REF.
1	35	M6	3967-03	3969-03
2	35	M8	3967-22	3969-22
3	45	M8	3967-32	3969-32
4	50	M8	3967-42	3969-42
5	60	M8	3967-52	3969-52

3967
3969

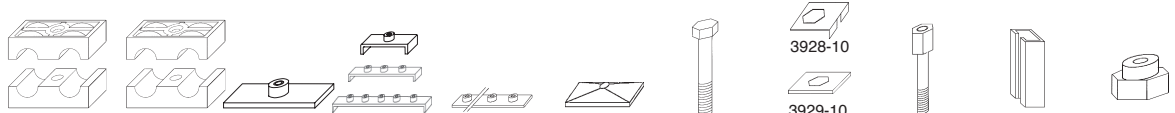
Standaard bout
Boulon standard
Standard bolt
Standardschraube



ATZ Aandrijftechniek B.V. (026-3112611)



6



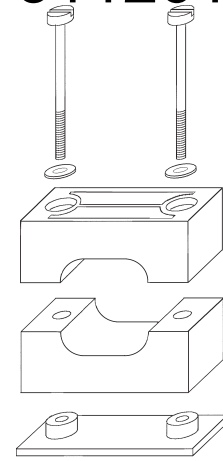
Se	⊕			1	1	2	3	4	5	6	7	8	9	10	
	mm	N.B.	O.D.	PP REF.	PAG REF.	REF.	REF.	REF.	REF.	REF.	REF.	REF.	REF.	REF.	
1	6	1/4"	3/8"	3901-12-06	3903-12-06	Fe/Zn/YP	Fe/Zn/YP	Fe/Zn/YP	Fe/Zn/YP	Fe	Fe/Zn/YP	Fe/Zn/YP	Fe/Zn/YP	ALU	
	6,35			3901-12-06.35	3903-12-06.35	3920-12	3922-12	3934-12-05	3937-12	3967-03	3928-10	3950-01	3940-02	3944-10	
	8			3901-12-08	3903-12-08		3922-12-03						3940-03		
	9,52			3901-12-09.52	3903-12-09.52		3922-12-05								
	10			3901-12-10	3903-12-10	AISI 316L	AISI 316L		AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L
	12			3901-12-12	3903-12-12	3921-12	3923-12		3938-12	3969-03	3928-20	3951-01	3941-02	3944-20	
12,7	1/2"		3901-12-12.7	3903-12-12.7		3923-12-03									
						3923-12-05									
2	12,7	1/4"	1/2"	3901-22-12.7	3903-22-12.7										
	13,25			3901-22-13G	3903-22-13G	Fe/Zn/YP		Fe/Zn/YP	Fe/Zn/YP	Fe	Fe/Zn/YP	Fe/Zn/YP	Fe/Zn/YP	ALU	
	14			3901-22-14	3903-22-14	3920-22		3934-22-05	3937-22	3967-22	3929-10	3950-22	3940-02	3945-10	
	15			3901-22-15	3903-22-15								3940-03		
	15,87			5/8"	3901-22-15.87	3903-22-15.87									
	16			3901-22-16	3903-22-16	AISI 316L			AISI 316L	AISI 316L				AISI 316L	
16,75	3/8"	3901-22-17G	3903-22-17G	3921-22			3938-22	3969-22			3941-02				
18		3901-22-18	3903-22-18												
3	19,05	1/2"	3/4"	3901-32-19.05	3903-32-19.05	Fe/Zn/YP		Fe/Zn/YP	Fe/Zn/YP	Fe	Fe/Zn/YP	Fe/Zn/YP	Fe/Zn/YP	ALU	
	20			3901-32-20	3903-32-20	3920-32		3934-32-05	3937-32	3967-32	3929-10	3950-32	3940-02	3945-10	
	21,25			3901-32-21G	3903-32-21G								3940-03		
	22			3901-32-22	3903-32-22										
	23			3901-32-23	3903-32-23										
	25			3901-32-25	3903-32-25	AISI 316L			AISI 316L	AISI 316L				AISI 316L	
25,4	1"	3901-32-25.4	3903-32-25.4	3921-32			3938-32	3969-32			3941-02				
4	26,75	3/4"		3901-42-27G	3903-42-27G	Fe/Zn/YP		Fe/Zn/YP	Fe/Zn/YP	Fe	Fe/Zn/YP	Fe/Zn/YP	Fe/Zn/YP	ALU	
	28			3901-42-28	3903-42-28	3920-42		3934-42-05	3937-42	3967-42	3929-10	3950-42	3940-02	3945-10	
	30			3901-42-30	3903-42-30								3940-03		
						AISI 316L		AISI 316L	AISI 316L			AISI 316L			
						3921-42		3938-42	3969-42			3941-02			
5	31,75	1"	1.1/4"	3901-52-31.75	3903-52-31.75	Fe/Zn/YP		Fe/Zn/YP	Fe/Zn/YP	Fe	Fe/Zn/YP	Fe/Zn/YP	Fe/Zn/YP	ALU	
	32			3901-52-32	3903-52-32	3920-52		3934-52-05	3937-52	3967-52	3929-10	3950-52	3940-02	3945-10	
	33,5			3901-52-33G	3903-52-33G								3940-03		
	35			3901-52-35	3903-52-35										
	38			3901-52-38	3903-52-38										
	40			3901-52-40	3903-52-40	AISI 316L			AISI 316L	AISI 316L				AISI 316L	
42	1.1/4"	3901-52-42G	3903-52-42G	3921-52			3938-52	3969-52			3941-02				



3970

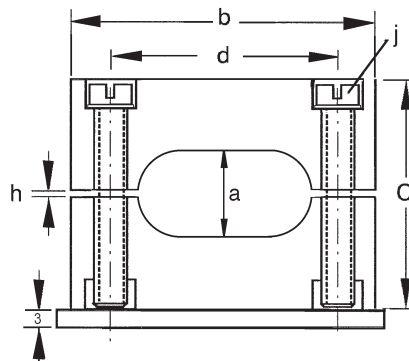
HOSETWINFIX

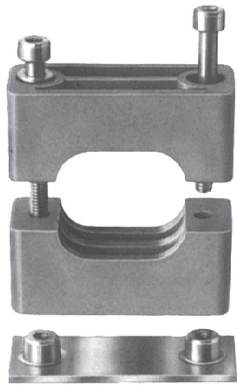
Standaard serie
 Série standard
 Standard series
 Standard Baureihe



6

Se	a			b	c	d	h	j	(PP) REF.
	mm	mm	REF.*						
4	12	24	8106-3-04 8106-8-04 8110-0-04 8111-1-04	50	36	33	0,6	M6x30	3970-04-12
5	14	28	8106-3-05 8106-8-05 8110-0-05 8111-1-05	57	44	40	0,6	M6x40	3970-05-14
	16	32	8106-3-06 8106-8-06 8110-0-06 8111-1-06	57	44	40	0,6	M6x40	3970-05-16
6	20	40	8106-3-08 8106-8-08 8110-0-08 8111-1-08	70	57	52	0,8	M6x50	3970-06-20

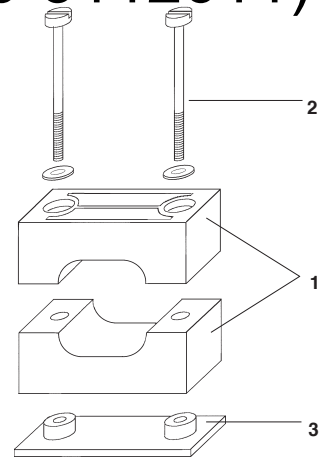




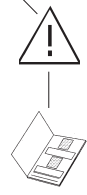
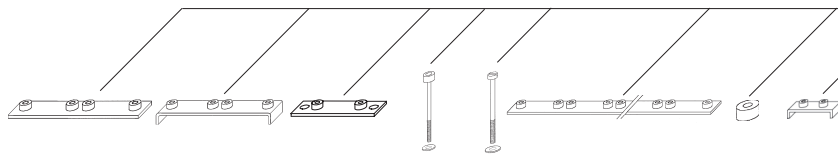
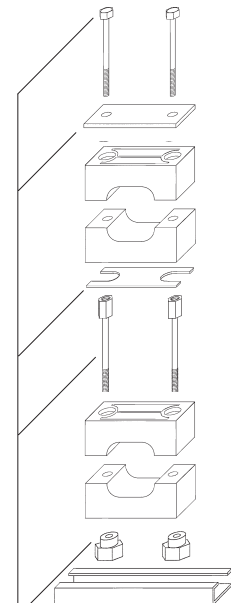
3970

HOSETWINFIX

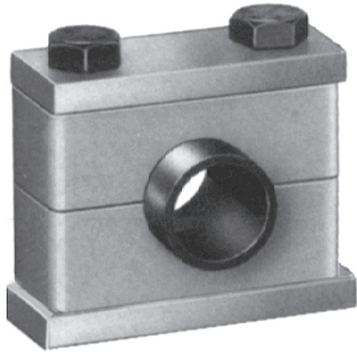
Onderdelen
Pièces détachées
Spare parts
Einzelteile



Se	a mm	 N.B.	 REF.*	1		2		3	
				PP REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	
4	12	24	8106-3-04	3971-04-12	3911-04	3913-04	3920-04	3921-04	
			8106-8-04						
			8110-0-04						
			8111-1-04						
5	14	28	8106-3-05	3971-05-14	3911-05	3913-05	3920-05	3921-05	
			8106-8-05						
			8110-0-05						
	16	32	32	8106-3-06	3971-05-16	3911-05	3913-05	3920-05	3921-05
				8106-8-06					
				8110-0-06					
6	20	40	8106-3-08	3971-06-20	3911-06	3913-06	3920-06	3921-06	
			8106-8-08						
			8110-0-08						
			8111-1-08						



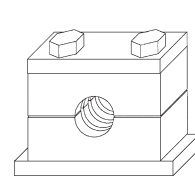
6.8-6.9



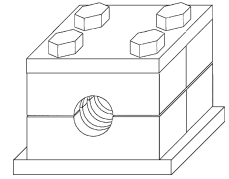
4930

MAXIFIX

Zware serie
Série lourde
Heavy series
Schwere Baureihe



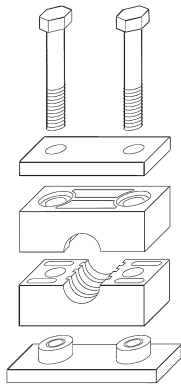
4930-01-09



4930-12-92

6

Se				b	c	d	f	f1	g	h	i	k	(PP) REF.	(PP) REF.																			
	mm	N.B.	O.D.																														
1	6	1/8"	1/4"	57	33	33	30	60	70	1,0	8	M10x45	4930-01-006	4930-12-006																			
	6,35												4930-01-006.35	4930-12-006.35																			
	8												4930-01-008	4930-12-008																			
	9,52												4930-01-009.52	4930-12-009.52																			
	10												4930-01-010	4930-12-010																			
	12												4930-01-012	4930-12-012																			
	12,7	4930-01-012.7	4930-12-012.7																														
	13,25	1/4"	1/2"										57	33	33	30	60	70	1,0	8	M10x45	4930-01-013G	4930-12-013G										
	14	4930-01-014																				4930-12-014											
	15	4930-01-015																				4930-12-015											
	15,87	5/8"																				4930-01-015.87	4930-12-015.87										
	16	4930-01-016																				4930-12-016											
	16,75	3/8"																				4930-01-017G	4930-12-017G										
	18	3/4"	3/4"																			57	33	33	30	60	70	1,0	8	M10x45	4930-01-018	4930-12-018	
18	4930-01-018			4930-12-018																													
19,05	4930-01-019.05			4930-12-019.05																													
20	4930-01-020			4930-12-020																													
19,05	1/2"			3/4"	69	49	45	30	60	87	1,0	8																			M10x60	4930-02-019.05	4930-22-019.05
20																																4930-02-020	4930-22-020
21,25		4930-02-021G	4930-22-021G																														
22		4930-02-022	4930-22-022																														
25		4930-02-025	4930-22-025																														
25,4		1"	4930-02-025.4										4930-22-025.4																				
26,75	3/4"	4930-02-027G	4930-22-027G																														
28	3/4"	1"	69	49									45	30	60	87	1,0	8	M10x60	4930-02-028	4930-22-028												
28																				4930-02-028	4930-22-028												
30																				4930-02-030	4930-22-030												
30																				1"	1.1/4"	84	60	60	30	60	105	1,2	8	M10x70		4930-03-030	4930-32-030
31,75																																4930-03-031.75	4930-32-031.75
32																																4930-03-032	4930-32-032
33,5	4930-03-033G	4930-32-033G																															
35	4930-03-035	4930-32-035																															
36	4930-03-036	4930-32-036																															
38	1.1/2"	4930-03-038			4930-32-038																												
40	1.1/4"	1.1/2"			84	60	60	30	60	105	1,2	8								M10x70	4930-03-040										4930-32-040		
40																					4930-03-040										4930-32-040		
42																					4930-03-042G										4930-32-042G		
45																					4930-03-045										4930-32-045		
33,5			1"	1.1/2"									117	88	90,5	45	90	155	2,0		10										M12x100	4930-04-033G	4930-42-033G
38																																4930-04-038	4930-42-038
40	4930-04-040	4930-42-040																															
42	1.1/4"	4930-04-042G																				4930-42-042G											
44,5	1.3/4"	4930-04-044.5																				4930-42-044.5											
45	1.1/2"	4930-04-045																				4930-42-045											
48	2"	2"	117	88																		90,5	45	90	155	2,0	10	M12x100	4930-04-049G	4930-42-049G			
48																													4930-04-049G	4930-42-049G			
50																													4930-04-050	4930-42-050			
50,8																													2"	4930-04-050.8		4930-42-050.8	
53					4930-04-053	4930-42-053																											
54					4930-04-054	4930-42-054																											
56	2.1/4"	4930-04-056			4930-42-056																												
60	2"	2.1/2"			117	88	90,5	45	90	155	2,0	10								M12x100									4930-04-060G	4930-42-060G			
60													4930-04-060G	4930-42-060G																			
63													2.3/8"	4930-04-063	4930-42-063																		
63													2.1/2"	4930-04-063	4930-42-063																		
65													4930-04-065	4930-42-065																			
65													4930-04-065	4930-42-065																			
70	2.3/4"	4930-04-070											4930-42-070																				

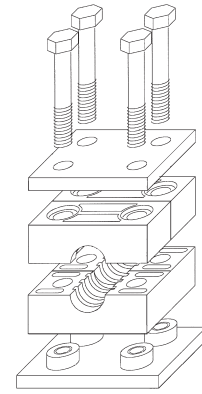


4930-01÷09

4930

MAXIFIX

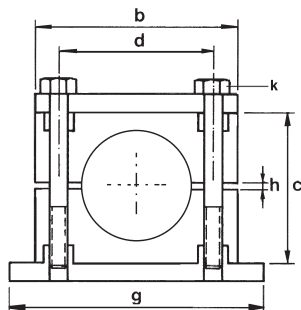
Zware serie
Série lourde
Heavy series
Schwere Baureihe



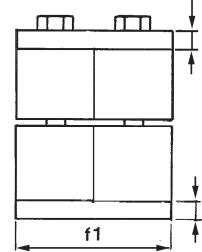
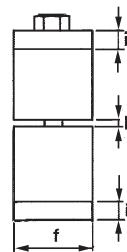
4930-12÷92

Se				b	c	d	f	f1	g	h	i	k	(PP) REF.	(PP) REF.
	mm	N.B.	O.D.											
5	60	2"	2.3/8"	155	118	122	60	120	200	3,0	10	M16x130	4930-05-060G	4930-52-060G
	65	2.1/4"	2.3/4"										4930-05-065	4930-52-065
	66												4930-05-066G	4930-52-066G
	70	2.1/2"	3"										4930-05-070	4930-52-070
	73												4930-05-073	4930-52-073
	75,5												4930-05-076G	4930-52-076G
	80	3"	3.1/2"										4930-05-080	4930-52-080
	85												4930-05-085	4930-52-085
88,9	4930-05-090G			4930-52-090G										
6	100	3.1/2"	4"	205	165	168	80	160	235	3,0	15	M20x190	4930-06-100	4930-62-100
	101												4930-06-101G	4930-62-101G
	102												4930-06-102	4930-62-102
	108	4"	4.1/2"										4930-06-108	4930-62-108
	114,3												4930-06-114G	4930-62-114G
	121	4.1/2"	5"										4930-06-121	4930-62-121
126,5	4930-06-127G			4930-62-127G										
7	133	5"	5.1/4"	245	200	205	80	160	270	4,0	15	M20x220	4930-07-133	4930-72-133
	139												4930-07-139G	4930-72-139G
	146												4930-07-146	4930-72-146
	150	6"	6"										4930-07-150	4930-72-150
	152,4												4930-07-152.40	4930-72-152.40
	159												4930-07-159	4930-72-159
	168	6"	6"										4930-07-168G	4930-72-168G
8	168	6"	8"	320	270	265	120	240	340	4,0	25	M30x300	4930-08-168G	4930-82-168G
	177												4930-08-177	4930-82-177
	193												4930-08-193	4930-82-193
	203	8"	8"										4930-08-203G	4930-82-203G
	219												4930-08-219G	4930-82-219G
9	219	8"	12"	470	410	395	160	320	520	10,0	30	M30x450	4930-09-219G	4930-92-219G
	273	10"											4930-09-273	4930-92-273
	324	12"											4930-09-324	4930-92-324

6



4930-01÷09

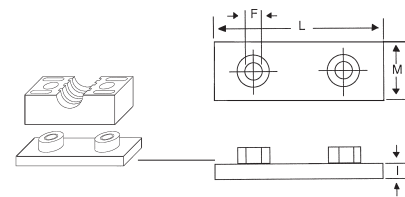


4930-12÷92

Se	F	I	L	M	Fe/Zn/YP REF.	AISI 316L REF.
1	M10	8	70	30	4920-01	4921-01
2	M10	8	87	30	4920-02	4921-02
3	M10	8	105	30	4920-03	4921-03
4	M12	10	155	45	4920-04	4921-04
5	M16	10	200	60	4920-05	4921-05
6	M20	15	225	80	4920-06	4921-06
7	M20	15	270	80	4920-07	4921-07
8	M30	25	340	120	4920-08	4921-08
9	M30	30	520	160	4920-09	4921-09

4920
4921

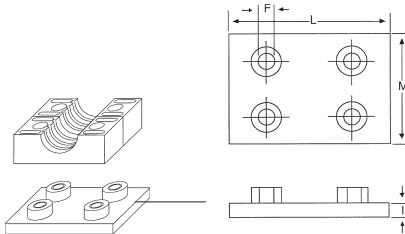
Lasplaat
Plaque à souder
Weldplate
Anschweisplatte



Se	F	I	L	M	Fe/Zn/YP REF.	AISI 316L REF.
1	M10	8	70	60	4922-01	
2	M10	8	87	60	4922-02	
3	M10	8	105	60	4922-03	
4	M12	10	155	90	4922-04	
5	M16	10	200	120	4922-05	
6	M20	15	225	160	4922-06	
7	M20	15	270	160	4922-07	
8	M30	25	340	240	4922-08	
9	M30	30	520	320	4922-09	

4922

Dubbele lasplaat
Plaque double à souder
Double weldplate
Doppelanschweisplatte

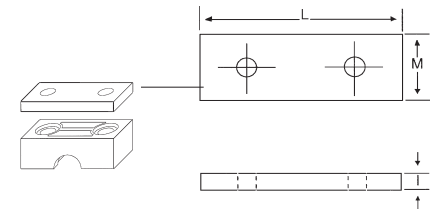


6

Se	I	L	M	Fe/Zn/YP REF.	AISI 316L REF.
1	8	58	30	4937-01	4938-01
2	8	72	30	4937-02	4938-02
3	8	87	30	4937-03	4938-03
4	10	120	45	4937-04	4938-04
5	10	155	60	4937-05	4938-05
6	15	205	80	4937-06	4938-06
7	15	245	80	4937-07	4938-07
8	25	320	120	4937-08	4938-08
9	30	470	160	4937-09	4938-09

4937
4938

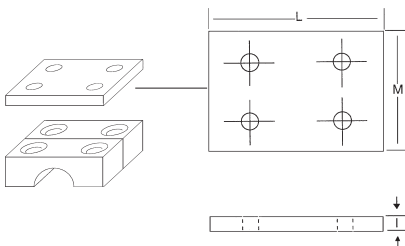
Bovenplaat
Plaque supérieure
Cover plate
Deckplatte



Se	I	L	M	Fe/Zn/YP REF.	AISI 316L REF.
1	8	58	60	4939-01	
2	8	72	60	4939-02	
3	8	87	60	4939-03	
4	10	120	90	4939-04	
5	10	155	120	4939-05	
6	15	205	160	4939-06	
7	15	245	160	4939-07	
8	25	320	240	4939-08	
9	30	470	320	4939-09	

4939

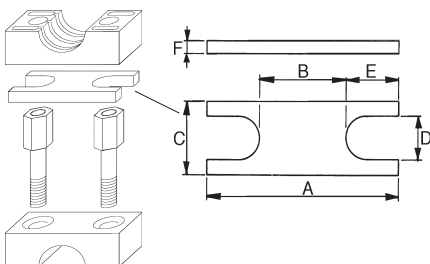
Dubbele bovenplaat
Plaque supérieure double
Double cover plate
Doppeldeckplatte



Se	A	B	C	D	F	E	Fe/Zn/YP REF.	AISI 316L REF.
1	55	11	30	16	6	22	4928-01	
2	69	25	30	16	6	22	4928-02	
3	83	39	30	16	6	22	4928-03	
4	114	66	45	18	6	24	4928-04	
5	148	95	60	22	6	26,5	4928-05	
6	195	132	80	28	6	31,5	4928-06	
7	235	166	80	28	6	34,5	4928-07	
8	310	210	120	47	8	50	4928-08	

4928

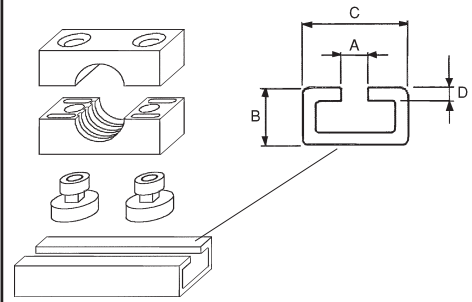
Borgplaat
Plaque de blocage
Locking plate
Sicherungsplatte



Se	L	A	B	C	D	Fe/Zn/YP REF.	AISI 316L REF.
1 2 3 4	2 M	13	22	40	4,5	4940-02	

4940

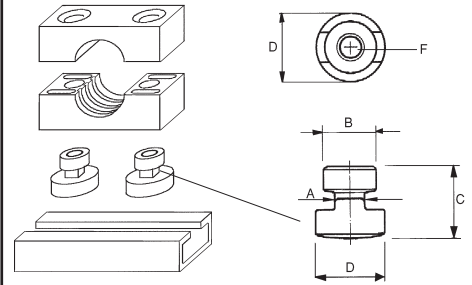
**Montagerail
Rail de fixation
Mounting rail
Tragschiene**



Se	A	B	C	D	F	Fe/Zn/YP REF.	AISI 316L REF.
1	12,5	17,7	20,5	26	M10	4944-10	
2	12,5	17,7	20,5	26	M10	4944-10	
3	12,5	17,7	20,5	26	M10	4944-10	
4	12,5	19,6	23	26	M12	4944-12	

4944

**Railmoer voor 4940
Écrou pour 4940
Rail nut for 4940
Mutter für 4940**

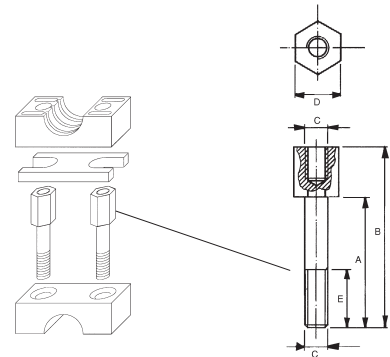


6

Se	A	B	C	D	E	Fe/Zn/YP REF.	AISI 316L REF.
1	28	49	M10	15	20	4950-01	
2	42	65	M10	15	20	4950-02	
3	52	75	M10	15	20	4950-03	
4	78	108	M12	17	25	4950-04	
5	105	139	M16	21	25	4950-05	
6	150	190	M20	26	40	4950-06	
7	180	220	M20	26	40	4950-07	
8	200	315	M30	45	60	4950-08	

4950

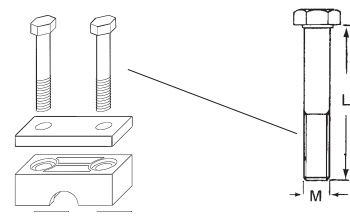
**Opbouwschroef
Vis intermédiaire d'empilage
Stacking bolt
Aufbauschaube**



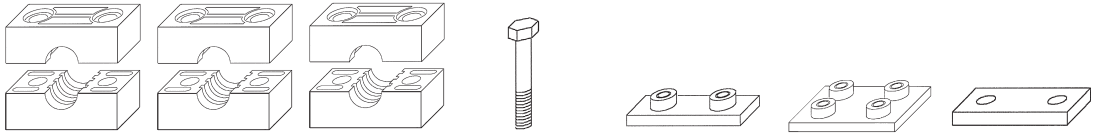
Se	L	M	Fe REF.	AISI 316L REF.
1	45	M10	4967-01	4969-01
2	60	M10	4967-02	4969-02
3	70	M10	4967-03	4969-03
4	100	M12	4967-04	4969-04
5	130	M16	4967-05	4969-05
6	190	M20	4967-06	4969-06
7	220	M20	4967-07	4969-07
8	300	M30	4967-08	4969-08
9	450	M30	4967-09	4969-09

**4967
4969**

**Standaard bout
Boulon standard
Standard bolt
Standardschraube**

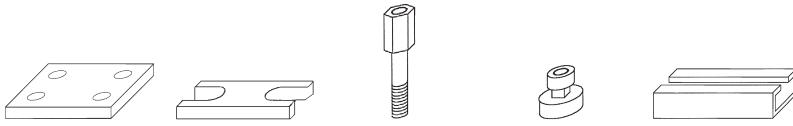


ATZ Aandrijftechniek B.V. (026-3112611)

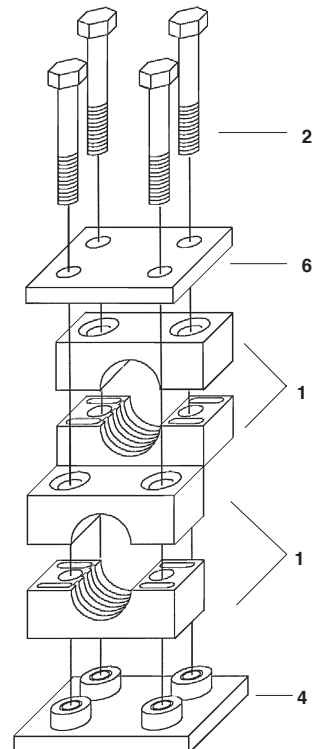
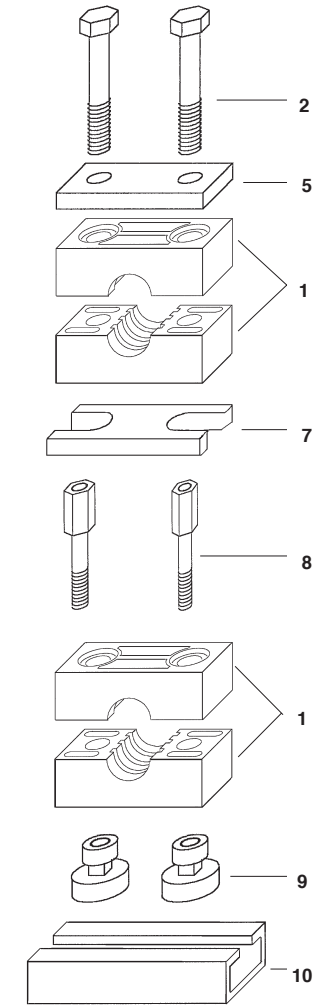


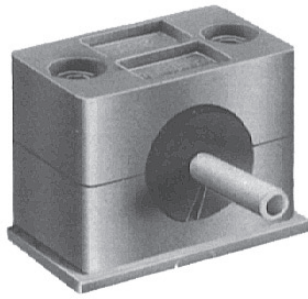
6

Se	← ○ →			1		1		1		2		3		4		5													
	mm	N.B.	O.D.	PP REF.	PAG REF.	ALU REF.	Fe REF.	AlSI 316L REF.	Fe/Zn/YP REF.	AlSI 316L REF.	Fe/Zn/YP REF.	AlSI 316L REF.	Fe/Zn/YP REF.	AlSI 316L REF.	Fe/Zn/YP REF.	AlSI 316L REF.													
1	6	1/8"	1/4"	4901-01-006	4903-01-006	4905-01-006	4967-01	4969-01	4920-01	4921-01	4922-01	4937-01	4938-01	4901-01-006.35	4903-01-006.35	4905-01-008	4901-01-008												
	8		5/16"	4901-01-008	4903-01-008	4905-01-008																							
	9,52		3/8"	4901-01-009.52	4903-01-009.52	4905-01-010																							
	10		4901-01-010	4903-01-010	4905-01-010																								
	12		4901-01-012	4903-01-012	4905-01-012																								
	12,7	1/2"	4901-01-012.7	4903-01-012.7	4905-01-013G																								
	13,25		4901-01-013G	4903-01-013G	4905-01-014																								
	14		4901-01-014	4903-01-014	4905-01-015																								
	15	5/8"	4901-01-015	4903-01-015	4905-01-016																								
	15,87		4901-01-015.87	4903-01-015.87	4905-01-017G																								
	16		4901-01-016	4903-01-016	4905-01-018																								
	16,75	3/8"	4901-01-017G	4903-01-017G	4905-01-018																								
	18		4901-01-018	4903-01-018	4905-01-018																								
	19,05	3/4"	4901-01-019.05	4903-01-019.05	4905-01-020																								
	20		4901-01-020	4903-01-020	4905-01-020																								
2	19,05	1/2"	3/4"	4901-02-019.05	4903-02-019.05	4905-02-019.05	4967-02	4969-02	4920-02	4921-02	4922-02	4937-02	4938-02	4901-02-020	4903-02-020	4905-02-021G	4901-02-021G												
	20		4901-02-021G	4903-02-021G	4905-02-022																								
	21,25		7/8"	4901-02-022	4903-02-022	4905-02-022																							
	22	3/4"	1"	4901-02-025	4903-02-025	4905-02-025																							
	25		4901-02-025.4	4903-02-025.4	4905-02-025.4																								
	25,4		4901-02-027G	4903-02-027G	4905-02-027G																								
	26,75		4901-02-028	4903-02-028	4905-02-028																								
	28		4901-02-030	4903-02-030	4905-02-030																								
	3	30	1"	1.1/4"	4901-03-030	4903-03-030												4905-03-030	4967-03	4969-03	4920-03	4921-03	4922-03	4937-03	4938-04	4901-03-031.75	4903-03-031.75	4905-03-032	4901-03-032
31,75		4901-03-033G		4903-03-033G	4905-03-033G																								
32		4901-03-035		4903-03-035	4905-03-035																								
33,5		4901-03-036		4903-03-036	4905-03-036																								
35		4901-03-038		4903-03-038	4905-03-038																								
36		1.1/2"	1.1/4"	4901-03-040	4903-03-040	4905-03-040																							
38				4901-03-042G	4903-03-042G	4905-03-042G																							
40		1.1/2"	1.1/4"	4901-03-045	4903-03-045	4905-03-045																							
42				4901-04-033G	4903-04-033G	4905-04-033G																							
44,5				4901-04-038	4903-04-038	4905-04-038																							
45	4901-04-040			4903-04-040	4905-04-040																								
48	4901-04-042G			4903-04-042G	4905-04-042G																								
4	50	1.1/2"	1.3/4"	4901-04-044.5	4903-04-044.5	4905-04-044.5	4967-04	4969-04	4920-04	4921-04	4922-04	4937-04	4938-04	4901-04-045	4903-04-045	4905-04-049G	4901-04-049G												
	50,8			4901-04-050	4903-04-050	4905-04-050																							
	53			4901-04-050.8	4903-04-050.8	4905-04-050.8																							
	54	2"	2"	4901-04-053	4903-04-053	4905-04-053																							
	56			4901-04-054	4903-04-054	4905-04-054																							
	60			4901-04-056	4903-04-056	4905-04-056																							
	63	2.3/4"	2.3/8"	4901-04-060G	4903-04-060G	4905-04-060G																							
	65			4901-04-063	4903-04-063	4905-04-063																							
	70			4901-04-065	4903-04-065	4905-04-065																							
	70			4901-04-070	4903-04-070	4905-04-070																							
	5	60	2"	2.3/8"	4901-05-060G	4903-05-060G												4905-05-060G	4967-05	4969-05	4920-05	4921-05	4922-05	4937-05	4938-05	4901-05-065	4903-05-065	4905-05-066G	4901-05-066G
		65			4901-05-070	4903-05-070												4905-05-070											
66		2.1/2"	2.3/4"	4901-05-073	4903-05-073	4905-05-073																							
70				4901-05-076G	4903-05-076G	4905-05-076G																							
73		3"	3"	4901-05-080	4903-05-080	4905-05-080																							
75,5				4901-05-085	4903-05-085	4905-05-085																							
80				4901-05-090G	4903-05-090G	4905-05-090G																							
85		3.1/2"	3.1/2"	4901-06-100	4903-06-100	4905-06-100																							
88,9	4901-06-101G			4903-06-101G	4905-06-101G																								
6	100	3.1/2"	4"	4901-06-102	4903-06-102	4905-06-102	4967-06	4969-06	4920-06	4921-06	4922-06	4937-06	4938-06	4901-06-108	4903-06-108	4905-06-114G	4901-06-114G												
	101			4901-06-108	4903-06-108	4905-06-108																							
	102			4901-06-114G	4903-06-114G	4905-06-114G																							
	108	4.1/2"	5"	4901-06-121	4903-06-121	4905-06-121																							
	114,3			4901-06-127G	4903-06-127G	4905-06-127G																							
	121			4901-07-133	4903-07-133	4905-07-133																							
7	126,5	5"	5.1/4"	4901-07-139G	4903-07-139G	4905-07-139G	4967-07	4969-07	4920-07	4921-07	4922-07	4937-07	4938-07	4901-07-146	4903-07-146	4905-07-150	4901-07-150												
	133			4901-07-146	4903-07-146	4905-07-146																							
	139			4901-07-150	4903-07-150	4905-07-150																							
	146	6"	6"	4901-07-152.40	4903-07-152.40	4905-07-152.40																							
	150			4901-07-159	4903-07-159	4905-07-159																							
	152,4			4901-07-168G	4903-07-168G	4905-07-168G																							
159	6"	6"	4901-08-168G	4903-08-168G	4905-08-168G																								
168			4901-08-177	4903-08-177	4905-08-177																								
8	177	8"	8"	4901-08-193	4903-08-193	4905-08-193	4967-08	4969-08	4920-08	4921-08	4922-08	4937-08	4938-08	4901-08-203G	4903-08-203G	4905-08-219G	4901-08-219G												
	193			4901-08-203G	4903-08-203G	4905-08-203G																							
	203			4901-08-219G	4903-08-219G	4905-08-219G																							
	219	8"	8"	4901-09-219G	4903-09-219G	4905-09-219G																							
	219			4901-09-273	4903-09-273	4905-09-273																							
9	219	10"	12"	4901-09-324	4903-09-324	4905-09-324																							
	273			4901-09-324	4903-09-324	4905-09-324																							
	324			4901-09-324	4903-09-324	4905-09-324																							



6		7		8		9		10	
Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.
4939-01		4928-01		4950-01		4944-10		4940-02	
4939-02		4928-02		4950-02		4944-10		4940-02	
4939-03		4928-03		4950-03		4944-10		4940-02	
4939-04		4928-04		4950-04		4944-12		4940-02	
4939-05		4928-05		4950-05					
4939-06		4928-06		4950-06					
4939-07		4928-07		4950-07					
4939-08		4928-08		4950-08					
4939-09									

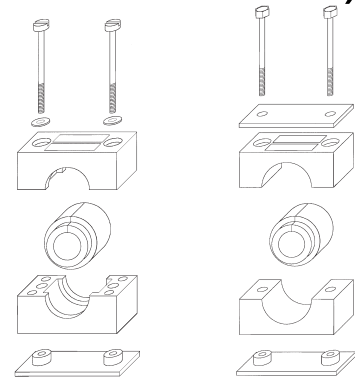




5900

VIBRAFIX


Standaard serie
Série standard
Standard series
Standard Baureihe

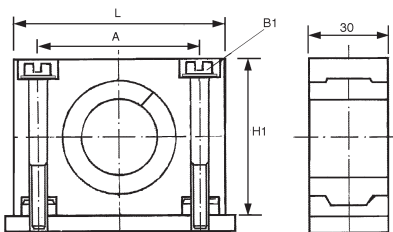


5900

5930

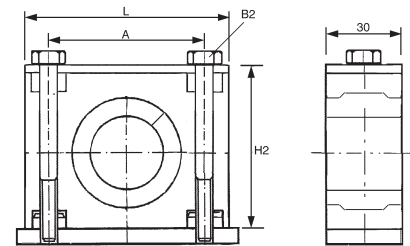
6

Se				H1	H2	L	A	B1	B2	a	b	(PP) REF.	(PP) REF.
	mm	N.B.	O.D.										
4	6	1/4"	1/4"	36	39	50	33	M6x30	M6x40	25	31	5900-04-06 5900-04-08 5900-04-10 5900-04-12 5900-04-13G 5900-04-14 5900-04-15 5900-04-16 5900-04-17G 5900-04-18 5900-04-20	5930-04-06 5930-04-08 5930-04-10 5930-04-12 5930-04-13G 5930-04-14 5930-04-15 5930-04-16 5930-04-17G 5930-04-18 5930-04-20
	8		5/16"										
	10		3/8"										
	12		1/2"										
	13,25												
	14	3/8"	5/8"										
	15												
	16												
	16,75												
	18												
20													
6	8	1/2"	5/16"	56	59	70	52	M6x50	M6x60	38	31	5900-06-08 5900-06-10 5900-06-12 5900-06-15 5900-06-16 5900-06-18 5900-06-20 5900-06-21G 5900-06-22 5900-06-25 5900-06-27G 5900-06-28 5900-06-30 5900-06-32	5930-06-08 5930-06-10 5930-06-12 5930-06-15 5930-06-16 5930-06-18 5930-06-20 5930-06-21G 5930-06-22 5930-06-25 5930-06-27G 5930-06-28 5930-06-30 5930-06-32
	10		3/8"										
	12		1/2"										
	15												
	16	3/4"	1"										
	18												
	20												
	21,25												
	22												
	25												
	26,75												
	28												
	30												
	32												
7	28	1"	1.1/2"	66	69	86	66	M6x60	M6x70	57	31	5900-07-28 5900-07-30 5900-07-33G 5900-07-35 5900-07-38 5900-07-42G 5900-07-49G	5930-07-28 5930-07-30 5930-07-33G 5930-07-35 5930-07-38 5930-07-42G 5930-07-49G
	30												
	33,5	1.1/4"											
	35												
	38												
	42												
	48,25												

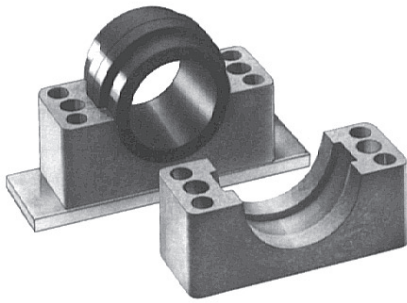


5900

SR shore A60°



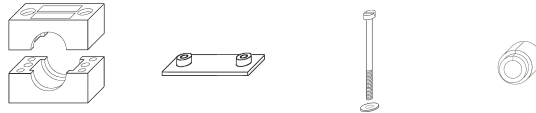
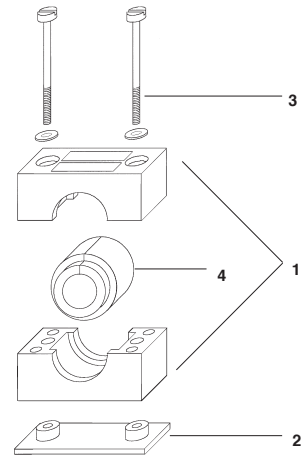
5930



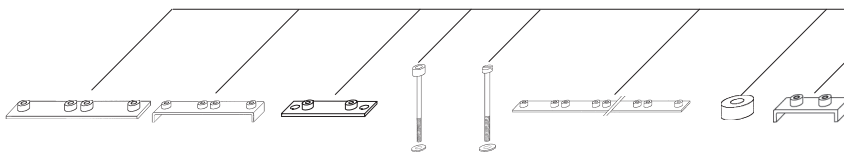
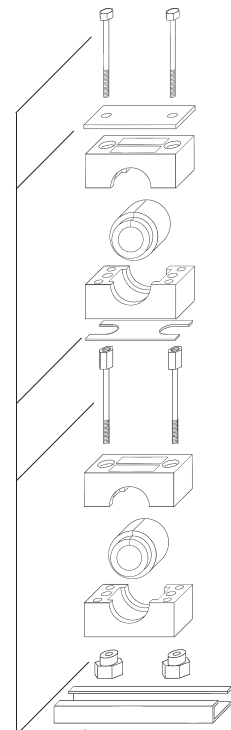
5900

VIBRAFIX

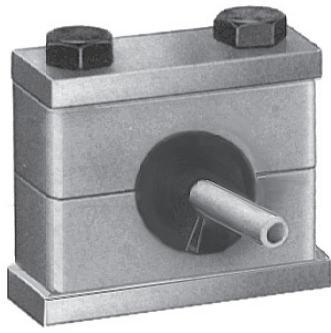
Onderdelen
Pièces détachées
Spare parts
Einzelteile



Se	↻			1		2		3		4
	mm	N.B.	O.D.	PP REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	SR REF.	
4	6	1/4"	1/4"	5901-04-10	3920-04	3921-04	3911-04	3913-04	6901-10-06	
	8		5/16"						6901-10-08	
	10		3/8"						6901-10-10	
	12		1/2"						6901-10-12	
	13,25		5/8"						6901-10-13G	
	14	3/8"	5/8"	6901-10-14						
	15			6901-10-15						
	16			6901-10-16						
	16,75			6901-10-17G						
	18			6901-10-18						
20	6901-10-20									
6	8	1/2"	5/16"	5901-06-16	3920-06	3921-06	3911-06	3913-06	6901-16-08	
	10		3/8"						6901-16-10	
	12		1/2"						6901-16-12	
	16		1"						6901-16-16	
	18		6901-16-18							
	20	3/4"	1"	6901-16-20						
	21,25			6901-16-21G						
	22			6901-16-22						
	25			6901-16-25						
	26,75			6901-16-27G						
28	6901-16-28									
7	16	1"	3/4"	5901-07-32	3920-07	3921-07	3911-07	3913-07	6901-32-16	
	18		6901-32-18							
	20		6901-32-20							
	22		6901-32-22							
	25		6901-32-25							
	28	1.1/2"	1.1/2"	6901-32-28						
	30			6901-32-30						
	33,5			6901-32-33G						
	35			6901-32-35						
	38			6901-32-38						
42	1.1/4"	1.1/2"	6901-32-42G							
48,25	1.1/2"		6901-32-49G							



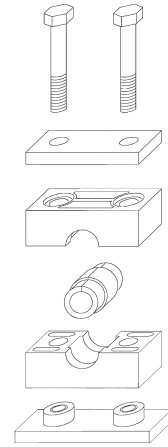
6.8-6.9



5930

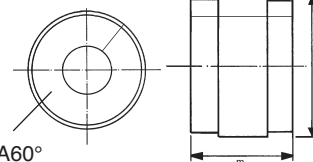
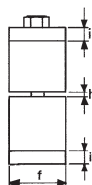
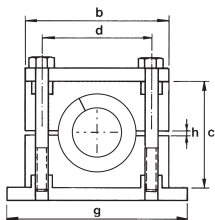
VIBRAFIX

Zware serie
Série lourde
Heavy series
Schwere Baureihe

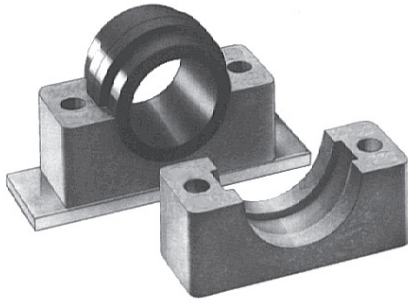


6

Se				b	c	d	f	g	h	i	k	l	m	(PP) REF.
	mm	N.B.	O.D.											
2	6	1/4"	1/4"	72	49	45	30	87	1,0	8	M10x60	25	31	5930-02-006 5930-02-008 5930-02-010 5930-02-012 5930-02-013G 5930-02-014 5930-02-015 5930-02-016 5930-02-017G 5930-02-018 5930-02-020
	8													
	10													
	12													
	14													
	15													
	16													
	16,75													
	18													
	20													
3	8	1/2"	5/16"	87	60	60	30	105	1,2	8	M10x70	38	31	5930-03-008 5930-03-010 5930-03-012 5930-03-016 5930-03-018 5930-03-020 5930-03-021G 5930-03-022 5930-03-025 5930-03-027G 5930-03-028
	10													
	12													
	16													
	18													
	20													
	21,25													
	22													
	25													
	26,75													
28														
4	16	1"	3/4"	120	88	90,5	45	155	2,0	8	M12x100	59	45	5930-04-016 5930-04-018 5930-04-020 5930-04-022 5930-04-025 5930-04-028 5930-04-030 5930-04-033G 5930-04-035 5930-04-038 5930-04-042G 5930-04-049G
	18													
	20													
	22													
	25													
	28													
	30													
	33,5													
	35													
	38													
42														
48														
5	58	2"	2.3/8"	155	118	122	60	200	3,0	10	M16x130	94	60	5930-05-058 5930-05-060 5930-05-063 5930-05-065 5930-05-070 5930-05-073 5930-05-075
	60													
	63													
	65													
	70													
	73													
75,5														
6	75	2.1/2"	3.1/2"	205	165	168	80	225	3,0	15	M20x190	122,5	80	5930-06-075 5930-06-080 5930-06-085 5930-06-090 5930-06-100
	80													
	85													
	90													
	100													
3.1/2"														
4"														



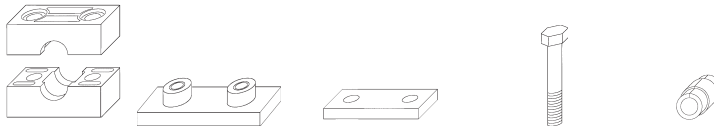
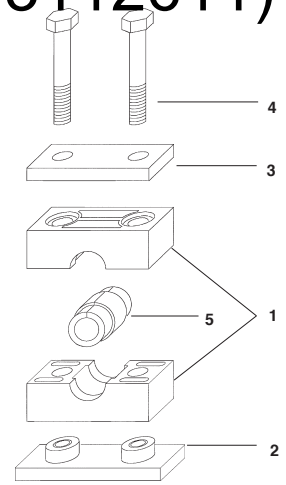
SR shore A60°



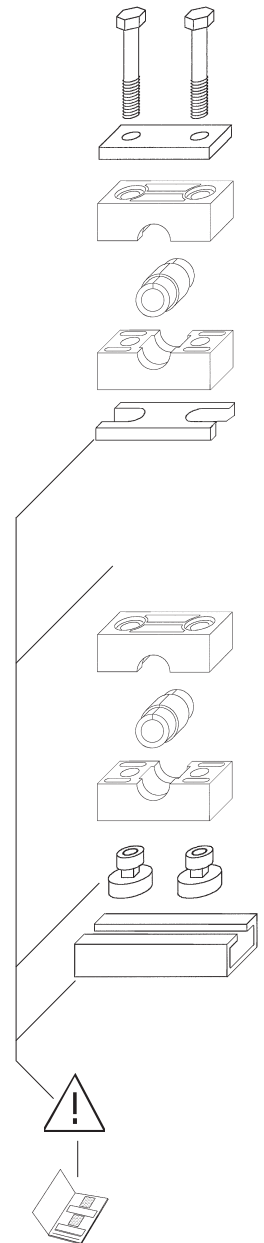
5930

VIBRAFIX

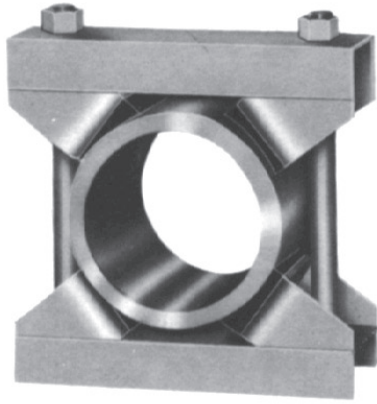
Onderdelen
Pièces détachées
Spare parts
Einzelteile



Se	↔		1		2		3		4		5	
	mm	N.B.	O.D.	PP REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe/Zn/YP REF.	AISI 316L REF.	Fe REF.	AISI 316L REF.	SR REF.	
2	6	1/4"	1/4"	5931-02-10	4920-02	4921-02	4937-02	4938-02	4967-02	4969-02	6901-10-06 6901-10-08 6901-10-10 6901-10-12 6901-10-13G 6901-10-14 6901-10-15 6901-10-16 6901-10-17G 6901-10-18 6901-10-20	
	8		5/16"									
	10		3/8"									
	12		1/2"									
	14		5/8"									
15	3/8"	7/8"	5931-03-16	4920-03	4921-03	4937-03	4938-03	4967-03	4969-03	6901-16-08 6901-16-10 6901-16-12 6901-16-16 6901-16-18 6901-16-20 6901-16-21G 6901-16-22 6901-16-25 6901-16-27G 6901-16-28		
16											3/8"	
18											1/2"	
20											7/8"	
21,25											1"	
3	22	1/2"	1 1/2"	5931-04-32	4920-04	4921-04	4937-04	4938-04	4967-04	4969-04	6901-32-16 6901-32-18 6901-32-20 6901-32-22 6901-32-25 6901-32-28 6901-32-30 6901-32-33G 6901-32-35 6901-32-38 6901-32-42G 6901-32-49G	
	25											
	28											
	30											
	33,5											
	35											
	38											
	42											
	48											
	4											58
60												
63												
70												
73												
5	75,5	2 1/2"	3 1/2"	5931-06-64	4920-06	4921-06	4937-06	4938-06	4967-06	4969-06	6901-64-75 6901-64-80 6901-64-85 6901-64-90 6901-64-100	
	75											
	80											
	85											
	90											
6	100	3 1/2"	4"									



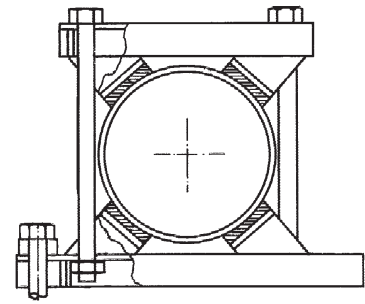
6



8900

BIGFIX

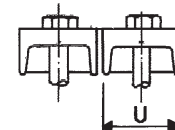
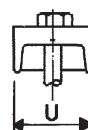
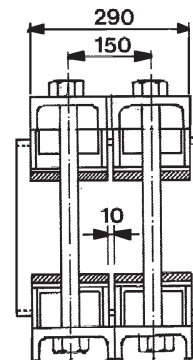
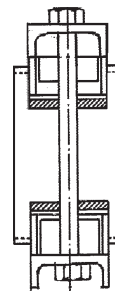
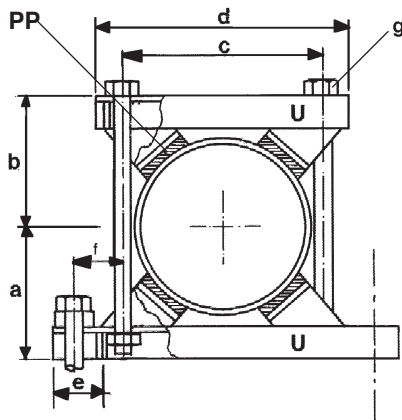
Leiding support
Support de tuyauterie
Pipe support
Leitungunterstützung



6

	a	b	U	c	d	e	f	g	Fe33/Zn REF.	Fe33/Zn REF.
166÷220	210	210	140	300	405	80	80	M30x420	8900-01	8900-12
220÷275	220	220	140	334	440	80	80	M30x450	8900-02	8900-22
275÷325	245	245	140	375	460	80	80	M30x510	8900-03	8900-32
325÷370	270	270	140	420	500	80	80	M30x550	8900-04	8900-42
370÷425	300	300	140	475	560	80	80	M30x620	8900-05	8900-52
425÷480	325	325	140	535	620	90	100	M30x680	8900-06	8900-62
480÷550	360	360	140	605	700	90	100	M30x730	8900-07	8900-72
551÷630	410	410	140	670	760	90	100	M30x800	8900-08	8900-82
631÷715	452	452	140	755	845	90	100	M30x884	8900-09	8900-92
716÷800	495	495	140	850	940	90	100	M30x970	8900-10	8900-102

Bestelvoorbeeld Manière de commander Way of ordering Bestellbeispiel	250 mm	Fe33/Zn REF.
		8900-02-250



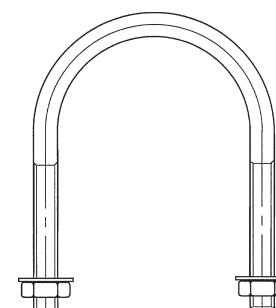
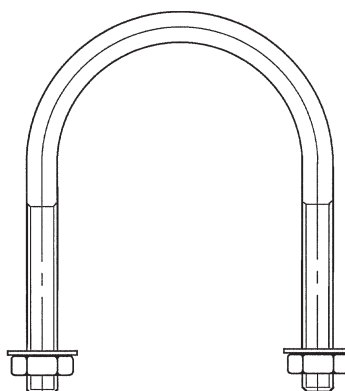
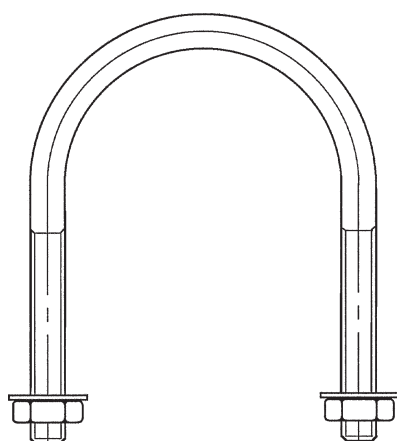
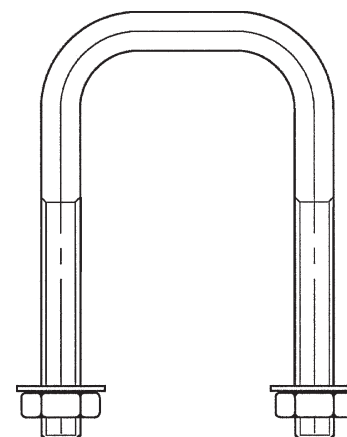
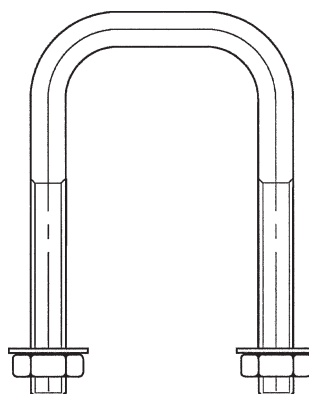
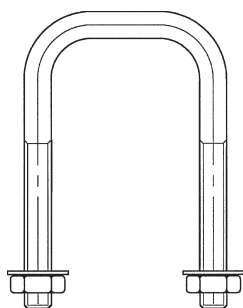
8900-01÷10

8900-12÷102

8950

TUBEFIX

Krambeugel*
Etrier fileté*
Round steel "U" boltclamp*
Rundstahlbügelschelle*



*Op aanvraag
Sur demande
On request
Auf Anfrage

Algemene informatie leidingbeugels

Series

MINIFIX:

Voor persluchtleidingen, kabels, lichte retour leidingen etc., standaard leverbaar in polypropyleen voor diameters van 4 t/m 15 mm in enkele en dubbele uitvoering.

NORMAFIX:

Standaardserie voor het fixeren van leidingen in middelzware systemen zoals: hydrauliek, perslucht, koelinstallaties etc. Standaard leverbaar in polypropyleen, polyamide en aluminium, voor diameters van 6 t/m 54 mm in zowel de metrische, inch en nominal bore afmetingen.

TWINFIX:

Standaardserie voor het fixeren van twee leidingen met gelijke diameters in één beugel in middelzware systemen. Standaard leverbaar in polypropyleen en polyamide voor diameters van 6 t/m 42 mm in zowel de metrische, inch en nominal bore afmetingen.

HOSETWINFIX:

Standaard serie voor het fixeren van kunststof Twinhose. Standaard leverbaar in polypropyleen voor slangdiameter 1/4" t/m 1/2".

MAXIFIX:

Zware serie leidingbeugels voor het fixeren van leidingsystemen in zware omstandigheden (hogere drukken en zware mechanische belastingen). Standaard leverbaar in polypropyleen, polyamide en

aluminium, voor diameters van 6 t/m 324 mm in zowel de metrische, inch en nominal bore afmetingen.

VIBRAFIX:

Polypropyleen leidingbeugels voorzien van een rubberen bus in de standaardserie en de zware serie om overmatige trilling in een lei-dingsysteem te elimineren. Standaard leverbaar voor diameters van 6 t/m 100 mm.

BIGFIX:

Zeer zware leidingsupport uit verzinkt staal voor diameters van 167 t/m 800 mm.

TUBEFIX:

Op aanvraag leverbaar, krambeugels met metrische schroefdraad van M6 t/m M24 in staal verzinkte uitvoering of roestvaststaal. Leverbaar voor leidingwerk van 1/2" t/m 24", hiernaast voor kokerprofiel van vierkant 30 mm t/m 100 mm.

6

Materiaalsoorten

BEUGELKAPPEN:

Polypropyleen (PP):

De polypropyleen kappen kunnen in vrijwel de meest voorkomende situaties standaard worden ingezet, echter is beperkt in temperatuurbestendigheid tot maximaal 90°C.

Polyamide (PAG):

De polyamide kappen zijn met glass fiber versterkt en kunnen worden ingezet bij hogere omgevingstemperaturen tot maximum 140°C. Het materiaal is tevens zelfdovend.

Aluminium (ALU):

De aluminium kappen zijn te gebruiken tot een maximale temperatuur van 400°C! Echter door de oppervlakte hardheid van het materiaal dient er rekening mee gehouden te worden dat de klemkracht alsmede de trillingsabsorptie op/van het leidingwerk minder is ten opzichte van de eerder genoemde kunststof materialen.

RUBBEREN BUSSEN:

Synthetisch rubber (SR):

De rubberen bussen worden toegepast in de Vibrafix leidingbeugels. Temperatuurbestendigheid tot maximaal 150°C. De hardheid is Shore A60. Door de flexibele leidingmontage hiermee is de trillingabsorptie vrij hoog waardoor het leidingwerk vrijwel geluidsarm kan worden gemonteerd.

MONTAGE ONDERDELEN:

Staal (Fe 33):

Standaard zijn alle montage onderdelen, zoals: lasplaten, dekplaten, montagebouten, rails etc. geproduceerd uit materiaal Fe 33 waarna deze een oppervlaktebehandeling ondergaan. Las- en dekplaten zijn geel gebicromatiseerd en de overige onderdelen elektrolytisch verzinkt.

Roestvaststaal (AISI 316L):

Nagenoeg alle onderdelen, zoals: lasplaten, dekplaten, montagebouten, rails etc. zijn leverbaar uit roestvaststaal, W.s. nr. 1.4404 met zeer goede lasbare eigenschappen. De bestendigheid in combinatie met de kunststof leidingbeugels is derhalve zeer groot.

Montage voorschriften leidingbeugels

Algemeen:

Om een optimale montage van uw leidingwerk te waarborgen dient u onderstaande aanwijzingen te volgen, rekening houdend met het gebruik van de juiste afmeting beugels en de hiervoor bestemde onderdelen. De beugelkappen zijn identiek, één set bestaat uit twee kappen (boven- en onderkap zijn dus gelijk).

Beugelafstand:

Leidingbeugels aanbrengen met een maximale onderlinge afstand van 1500 mm, bij koppelstukken zoals snijringverbindingen, flenzen etc. (rechte, haakse T-stukken etc.) is het aan te bevelen om voor en achter de koppeling een beugel aan te brengen. Ook dient een bocht in een leiding aan minimaal één zijde voorzien te worden van een bevestigingspunt.

Aanbrengen lasplaten:

Lasplaten bevestigen op vaste ondergrond en vervolgens onderste kap op de plaat klemmen waarin vervolgens de leiding geplaatst kan worden (nooit lassen met compleet afgemonteerde beugel).

Afmonteren:

Over de leiding kan de bovenste kap geplaatst worden en nadien worden afgedekt met de dekplaat en gemonteerd worden met de bijbehorende montagebouten. LET OP! de montagebouten niet te vast aandraaien, er dient na montage nog een opening tussen de twee beugelkappen over te blijven! (zie hiervoor de opgegeven waarden in de produkt pagina's).

Railmontage:

Rail op de gewenste lengte inkorten en bevestigen op vaste ondergrond, hierna de railmoeren aanbrengen (kwartslag draaien) en de meegeleverde O-ringen aanbrengen, zodat ze niet kunnen verschuiven. Op de railmoer kan direkt de onderste kap geplaatst worden, afmonteren gelijk aan lasplaat bevestiging.

Stapelmontage:

De basis hiervan is gelijk aan lasplaat- en railmontage, echter de opbouw dient laag voor laag te geschieden en tussen elke laag dient gebruik te worden gemaakt van borgplaten zodat nadien het geheel nog demontabel blijft.

Informations générales supports de tuyauteries Séries

MINIFIX:

Pour conduites d'air comprimé, cables, tuyauteries de retour etc. Livrable en polypropylène pour des tubes de diamètres 4 mm à 15 mm pour un ou deux tubes.

NORMAFIX:

Série standard pour la fixation de conduites dans des systèmes tels que: hydraulique, air comprimé, installations de refroidissement etc. Livrable en polypropylène, polyamide ou aluminium pour des tubes de diamètres de 6 mm à 54 mm aussi bien en série métrique, dimensions américaines (pouces) ou anglaises (nominal bore).

TWINFIX:

Série standard pour la fixation de deux tubes de diamètre identique dans un seul collier. Livrable en polypropylène et polyamide pour des tubes de diamètres de 6 mm à 42 mm aussi bien en série métrique, dimensions américaines (pouces) ou anglaises (nominal bore).

HOSETWINFIX:

Série standard pour la fixation de tuyaux synthétique jumelés livrables en polypropylène pour les tuyaux de diamètres 1/4" à 1/2".

MAXIFIX:

Série lourde pour la fixation de tubes dans des installations à

fortes sollicitations (très haute pression et vibrations). Livrable en polypropylène, polyamide ou aluminium pour des tubes de diamètres de 6 mm à 324 mm aussi bien en série métrique, dimensions américaines (pouces) ou anglaises (nominal bore).

VIBRRAFIX:

Supports de tuyauteries avec coussinets en caoutchouc en série standard et série lourde spécialement conçus pour éliminer les fortes vibrations dans les conduites. Livrable de 6 mm à 100 mm.

BIGFIX:

Supports de tuyauteries en acier zingué spécialement conçus pour des tubes de grand diamètres allant de 167 à 800 mm.

TUBEFIX:

Etriers avec filetage métrique M6 à M24 - zingués ou en acier inoxydable. Livrable pour des tubes de 1/2" jusqu'à 24". De plus étriers rectangulaires pour des tubes de 30 mm à 100 mm.

Caractéristiques des matériaux

DEMIS-COLLIERS:

Polypropylène (PP):

Les colliers en polypropylène peuvent être utilisés dans pratiquement toutes les applications standards mais leur résistance à la température est limitée à maximum 90° C.

Polyamide (PAG):

Les colliers en polyamide sont renforcés de fibres de verre et peuvent être utilisés pour des températures allant jusqu'à 140° C. Ce type de colliers est d'ailleurs auto-extinguible.

Aluminium (ALU):

Les colliers en aluminium peuvent être utilisés jusqu'à 400° C. Néanmoins à cause de la dureté de la matière il faut tenir compte d'une moins bonne résistance aux vibrations par rapport aux colliers en matière synthétique.

COUSSINETS EN CAOUTCHOUC:

Caoutchouc synthétique (SR):

Les coussinets en caoutchouc sont utilisés dans la série Vibrafix.

Résistance à la température jusqu'à maximum 150° C. La dureté shore est de A60. En utilisant les coussinets on peut obtenir un montage pratiquement sans vibrations et le niveau acoustique est fortement diminué.

ACCESSOIRES DE MONTAGE:

Acier (Fe 33):

Pratiquement tous les accessoires de montage sont fabriqués en acier Fe 33 comme plaques à souder, plaques supérieures, rails, écrous, vis etc. Les plaques de bases et supérieures sont bichromatisées et les autres éléments sont électro-zingués.

Acier inoxydable (AISI 316L):

Presque tous les accessoires comme plaques à souder, plaques supérieures, boulons, rails, etc sont livrables en acier inoxydable AISI 316L, DIN matière no. 1.4404 ayant de très bonnes caractéristiques de soudure. La résistance de l'acier inoxydable avec les colliers en matière synthétique est excellente.

Instructions de montage pour les supports de tuyauteries

Général:

Afin de garantir un montage optimal de vos tuyauteries nous vous conseillons de suivre les recommandations ci-dessous en tenant compte de l'utilisation du diamètre exact des colliers et de ses accessoires. (Les demis-colliers sont identiques).

Distance entre les colliers:

Il est conseillé de positionner les colliers à une distance maximale de 1500 mm. Pour les montages avec raccords à bague coupante ou bride etc (raccords droits, coudés ou en forme de T) il est conseillé de placer un collier de montage avant et après ces raccords. Pour les montages avec raccords coudés il faut placer minimum un collier d'un côté du raccord.

Placement des plaques à souder:

Souder les plaques sur un support ferme et ensuite appliquer le demi-collier inférieur dans lequel l'on peut poser les tuyauteries. (Ne jamais monter un collier complet).

Terminaison du montage:

Sur la tuyauterie on peut maintenant déposer l'autre demi-collier et ensuite y déposer la plaque supérieure et introduire les boulons de montage. Attention! Ne pas trop serrer les boulons de montage, il faut laisser une fente entre les deux demis-colliers (Voir les caractéristiques dans les pages de produits).

Montage en forme de rails:

Couper le rail à la longueur désirée et monter ce rail sur un support ferme. Ensuite monter les boulons de rails (tourner un quart de tour) et ajouter le joint pour que le boulon ne se déplace pas. Sur le boulon de rail on peut directement monter la moitié du collier. Procéder ensuite comme indiqué ci-dessus.

Montage superposé:

Le système est identique au système standard. La seule différence est que le montage doit s'effectuer couche par couche et entre chaque couche il faut utiliser la plaquette de blocage afin de rendre le démontage possible.

General information clamps Series

MINIFIX:

For compressed air pipes, cables, light weight return pipes, etc. standard supplied in polypropylene for diameters 4 up to 15 mm single and double execution.

NORMAFIX:

Standard series for fixing pipes in middle weight systems, like: hydraulic, compressed air, cooling equipment etc. Standard supplied in polypropylene, polyamid, aluminium, for diameters 6 up to 54 mm in metric, inch and nominal bore dimensions.

TWINFIX:

Standard series for fixing 2 pipes with equal diameters in one clamp in middle weight systems. Standard supplied in polypropylene and polyamid for diameters 6 up to 42 mm in metric, inch and nominal bore dimensions.

HOSETWINFIX:

Standard series for fixing synthetic twin hose in one clamp. Standard supplied in polypropylene for 1/4" up to 1/2".

MAXIFIX:

Heavy weight series clamps for fixing of pipe systems in heavy circumstances (higher pressures and heavy mechanic loadings).

Standard supplied in polypropylene, polyamid and aluminium, for diameters 6 up to 324 mm in metric, inch and nominal bore dimensions.

VIBRAFIX:

Polypropylene clamps provided with a rubber bushing in the standard series and the heavy weight series to eliminate excessive vibration in a pipe system. Standard supplied for diameters from 6 to 100 mm.

BIGFIX:

Super heavy weight pipe support from galvanized steel for pipes from 167 up to 800 mm.

TUBEFIX:

On request we supply: round steel "U" boltclamps with metric thread from M6 till M24 in steel zinc plated execution or in stainless steel. Delivery for pipe system from 1/2" till 24", next to this also available for tubular profile square 30 mm till 100 mm.

6

Kind of materials

HALVE CLAMPS:

Polypropylene (PP):

The polypropylene clamps can be used in practically every general situation, however the clamp temperature is restricted to max. 90°C.

Polyamid (PAG):

The polyamid clamps are reinforced with glass fibre and can be used at higher ambient temperatures till max. 140°C. At the same time the material is self-extinguishing.

Aluminium (ALU):

The aluminium clamps can be used till a constant maximum temperature of 400°C! However, because of the hardness of the surface of the material you will have to take note that the clamping force, as well as the vibration absorption, is lower in the pipe construction than before mentioned synthetic material.

RUBBER BUSHING:

Synthetic rubber (SR):

The rubber bushings will be applied for the Vibrafix. Temperature resistant till max. 150°C. The hardness is Shore A60. By means of the flexible pipe assembling the vibration absorption is rather high by which the pipe work almost can be mounted soundless.

MOUNTING PARTS:

Steel (Fe 33):

All mounting parts are standard, like: welding plates, cover plates, mounting bolts, rails etc. manufactured from material Fe33, with a surface treatment. Welding and cover plates are yellow bicromated and the other parts are electro-zinc plated.

Stainless steel (AISI 316L):

Almost all parts, like: welding plates, cover plates, mounting bolts, rails etc. are supplied from stainless steel, material 1.4404 with very good welding properties. Therefore the resistance in combination with the synthetic clamps is very large.

Mounting instructions for pipe clamps

General:

To guarantee an optimal mounting of your pipe work you have to follow undermentioned instructions, taking note that you use the correct dimensions and the parts intended therefore. The clamp caps are equal, one set exists of two caps (the upper and the lowest cap are equal).

Clamp distance:

Clamps to be mounted with a maximum distance of 1500 mm, using couplings like cutting ring connections, flanges etc. (straight, square, T-pieces), we recommend a clamp before and after the couplings. After or before a bend in a pipe we recommend at least one clamp.

Fixing weld plates:

Weld plates (electric weld), push on the lowest cap, insert pipe, mount the upper cap and bolt unit together. To avoid damage to the plastic it is recommended that the plates be welded before plastic clamp

mounting. Never weld with complete mounted clamps.

Finishing:

The upper cap can be placed over the pipe and after that the cover plate can be mounted with the right bolts. ATTENTION! do not fasten the mounting bolts to tight, there has to be an opening between the two caps ! (see for this the given dimensions on the product pages)

Rail mounting:

Cut the rail on the desired length and fix the rail on a solid base. After this you have to put the rail nut into the rail (quarter turn) and mount the O-rings supplied with, so that they cannot move. On the rail nuts the lowest cap can be placed, further mounting as described under fixing weld plates.

Stacking mounting:

This is almost equal to fixing welding plates and rail mounting, however the way of mounting has to take place by layers, between every layer you have to use locking plates so that afterwards the entire construction is still dismountable.

Allgemeine Information Rohrschellen Baureihen

MINIFIX:

Für Pressluftleitungen, Kabel, leichte Rücklaufleitung usw. Standard lieferbar aus Polypropylen für Diameter von 4 bis 15 mm in einfacher und doppel Ausführung.

NORMAFIX:

Standard Baureihe für das fixieren von Leitungen in mittelschweren Systemen, wie: hydraulik, Pressluft, Kühlanlage usw. Standard lieferbar aus Polypropylen, Polyamid, Aluminium für Diameter von 6 bis 54 mm in metrische und Zoll Abmessungen.

TWINFIX:

Standard Baureihe für das fixieren von zwei Rohre mit gleichen Diameter in einer Schelle in mittelschweren Systemen. Standard lieferbar in Polypropylen und Polyamid für Diameter von 6 bis 42 mm in metrische und Zoll Abmessungen.

HOSETWINFIX:

Standard Baureihe für das fixieren von Twinhose aus Kunststoff. Standard lieferbar aus Polypropylen für Diameter von 1/4" bis 1/2".

MAXIFIX:

Schwere Baureihe Rohrschellen für das fixieren von Leitungssystemen in schweren Anlagen (höhere Drucken und schwere mechanische

Beanspruchungen). Standard lieferbar aus Polypropylen, Polyamid und Aluminium für Diameter von 6 bis 324 mm in metrische und Zoll Abmessungen.

VIBRAFIX:

Rohrschellen aus Polypropylen versehen mit Gummieinsatz in der Standard Baureihe und der schwere Baureihe um die Übermassliche Schwingung in einem Leitungssystem zu reduzieren. Standard lieferbar für Diameter von 6 bis 100 mm.

BIGFIX:

Superschwer Leitungssupport aus verzinktem Stahl für Leitungen von 167 bis 800 mm.

TUBEFIX:

Auf Wunsch lieferbar Rundstrahlbügelschellen mit metrisches Gewinde im Stahl verzinktem Ausführung oder rostfreiem Stahl. Lieferbar für Leitungsmontage von 1/2" bis 24" auch lieferbar für viereckige Profile von viereckig 30 mm bis 100 mm.

Werkstoffe

SCHELLENHÄLFTE:

Polypropylene (PP):

Die Schellenhälfte aus Polypropylen können nahezu in meist vorkommenden Situationen eingesetzt werden, jedoch ist beschränkt in Temperaturbeständigkeit bis max. 90°C.

Polyamid (PAG):

Die Schellenhälfte aus Polyamid sind mit Glasfaser verstärkt und können eingesetzt werden bei höhere Umgebungstemperaturen bis maximal 140°C. Das Material ist ebenfalls selbsterlöschend.

Aluminium (ALU):

Die Schellenhälfte aus Aluminium kann man einsetzen bis einer konstanten maximum Temperatur von 400°C. Jedoch durch die Oberflächenhärte der Werkstoff müssen Sie berücksichtigen dass die Klemmkraft sowie die Schwingungsabsorption von der Leitungsanlage weniger ist mit Rücksicht auf eher genannten Werkstoffen aus Kunststoff.

GUMMIKLEMBUCHSEN:

Synthetisch Gummi (SR):

Die Gummiklembuchsen werden angewendet in den Vibrafix Rohrschellen. Temperaturbeständigkeit bis max. 150°C. Die Härte ist Shore A60. Durch die flexible Leitungsmontage ist die Schwingungsabsorption ziemlich hoch wodurch die Leitungsmontage nahezu lärmfrei montiert werden kann.

MONTAGEZUBEHÖR:

Stahl (Fe33):

Standard sind alle Montagzubehör, wie: Anschweisplatten, Deckplatten, Montageschrauben, Schienen usw. produziert aus Werkstoff Fe33, nachdem bekommen diese eine Oberfläche- bearbeitung. Anschweis- und Deckplatten sind gelb bicromatisiert und die andere Teilen sind elektrolytisch verzinkt.

Rostfreistahl (AISI 316L):

Fast alle Zubehöre, wie: Anschweisplatten, Deckplatten, Montageschrauben, Schienen usw. sind lieferbar aus Rostfreien Stahl, Werkstoff 1.4404 mit sehr guten schweisbaren Eigenschaften. Die beständigkeit in Kombination mit den Rohrschellen aus Kunststoff ist deshalb sehr gross.

Montage Empfehlung Rohrschellen

Allgemein:

Um eine optimale Montage von Ihrer Leitungsanlage zu garantieren, sollen Sie untergenannten Anweisungen folgen, Rücksicht nehmend auf das Gebrauch der richtigen Abmessungen und die davor bestimmte Zubehöre. Die Schellenkappen sind identisch, ein Satz besteht aus zwei Kappen (untere und obere Schellenkappe sind identisch).

Rohrschellen Abstand:

Rohrschellen montieren mit einem maximalen Längenabstand von 1500 mm, bei Kupplungen wie Schneidringverbindung, Flanschen usw. (gerade , rechtwinkelig, T-Stücke usw.) ist es zu empfehlen um vor und hinten der Kupplung eine Schelle zu montieren. Rohrbögen in einem Leitung sind unmittelbar hinten und vor den Bogen mit eine Schellen abzufangen.

Montage auf Anschweisplatten:

Platten anschweissen (E-Schweissung), Unterschelle aufdrücken, Rohr einlegen, zweite Schellenkappe aufsetzen und anschrauben. Um den Kunststoff nicht zu beschädigen, wird empfohlen, die Anschweisplatten nicht mit vorher aufgesetzter Schelle zu verschweissen.

Aufsetzen:

Über das Rohr kann die zweite Schellenkappe eingesetzt werden und nachher abgedeckt werden mit der Deckplatte und montiert werden mit den zugehörenden Montageschrauben. ACHTUNG! die Montageschrauben nicht zu fest anziehen, nach Montage muss noch einen Raum zwischen zwei Schellenkappen bleiben (siehe davor die Wertangabe auf die Produktseiten).

Montage auf Tragschienen:

Schiene auf gewünschten Länge einkürzen und montieren auf festen Untergrund, hiernach Tragschienenmutter einstecken (Vierteldrehung) und die gelieferten O-Ringen montieren um Verschiebung zu verhindern. Man kann sofort auf die Tragschienenmutter die untere Schellenkappe montieren und montieren wie beschrieben unter Montage auf Anschweisplatten.

Aufbaumontage:

Die Grundlage ist gleich wie bei Anschweisplatte und Montage auf Tragschienen, jedoch die Aufbau muss Schicht für Schicht geschehen und zwischen jeder Schicht muss man Sicherheitsblechen benutzen so dass nachher alles noch demontierbar bleibt.

ATZ Aandrijftechniek B.V. (026-3112611)

Materiaaleigenschappen Caractéristiques des matériaux		Material properties Werkstoffeigenschaften				
		Testmethode Methode de test Test method Prüfmethode	PP	PAG	ALU	SR
Mechanische eigenschappen Caractéristiques mécaniques Mechanical properties Mechanische Eigenschaften	A B C D E	DIN 53452 DIN 53453 ASTM D 695 DIN 53452 DIN 53455	43 N/mm ² 11 KJ/m ² 12000 N/mm ² 1400 N/mm ² 35 N/mm ²	230 N/mm ² 40 KJ/m ² 160 N/mm ² 9000 N/mm ² 160 N/mm ²	70 N/mm ² HB 500 ÷ 600 N/mm ² 68000 ÷ 78000 N/mm ² 170÷220 N/mm ²	
Thermische eigenschappen Caractéristiques thermiques Thermal properties Thermische Eigenschaften	F G H I J	UL 94 DIN 53461 DIN 52612 ASTMD696	HB 98 °C -30/+90 °C 0,2 W.K. ⁻¹ m ⁻¹ 1,8x10 ⁻⁴ K ⁻¹	VO 260 °C -40/+140 °C 0,2 W.K. ⁻¹ m ⁻¹ 2-3x10 ⁻⁵ K ⁻¹	+400 °C 0,2 ÷ 0,4 $\frac{\text{Cal}}{\text{cm} \times \text{s} \times \text{°C}}$ 2,37x10 ⁻⁵ /°C	-40/+150 °C
Electrische eigenschappen Caractéristiques electriques Electrical properties Elektrische Eigenschaften	K L	DIN 53482 DIN 53480	10 ¹⁸ Ohm x cm. KA3C-KB>660 KC>660	10 ¹⁵ Ohm x cm. KA3b-KB450-KC450		
Chemische eigenschappen Caractéristiques chimiques Chemical properties Chemische Eigenschaften	M N O P		<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	X <input checked="" type="checkbox"/> <input type="checkbox"/> X	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

6

A Buigspanningsgrens
Limite de flexion
Flexural strength
Grenzbiegespannung

B Kerfslagvastheid
Résistance aux heurts
Impact strenght
Schlagzähigkeit

C Drukvastheid
Résistance à la compression
Compressive strenght
Druckfestigkeit

D Doorbuiging E-modules
Module dynamique d'élasticité
Flexural E-modulus
Dynamischer E-modul

E Trekvastheid
Résistance à la traction
Tensile strenght
Zugfestigkeit

F Brandbaarheid
Comportement à la chaleur
Flammability
Brennbarkeit

G Buigingstemperatuur onder druk
Température de fléchissement
Deflection temp. under load
Biegungstemperatur unter Druck

H Max. temperatuur continu
Température d'utilisation
Max. continual temperature
Dauertemperaturbeständigkeit

I Warmtegeleidingscoëfficiënt
Conductibilité thermique
Heat conduction
Wärmeleitfähigkeit

J Warmte uitzettingscoëfficiënt
Coëfficiënt de dilatation thermique
Coëfficiënt of linear thermal exp.
Wärmeausdehnungs-koeffizient

K Doorgangsweerstand
Résistance spécifique
Specific resistance
Spezifischer Durchgangswiderstand

L Kruipstroomsterkte
Résistance aux dispersions électriques
Tracking resistance
Kriechstromfestigkeit

M Zwakke zuren - Logen
Acides affaiblis - Solution alcaline
Weak acids - Alkaline solution
Schwache Säuren - Lauge

N Benzine - Minerale oliën
Essence - Huiles minérales
Benzine - Mineral oils
Benzin - Mineral - Öle

O Alcohol - Andere oliën
Alcool - Autres huiles
Alcohol - Other oils
Alkohol - Sonstige Öle

P Zeewater
Eau de mer
Sea water
Seewasser

Goed bestendig
Très bonne résistance
Good resistance
Gut beständig

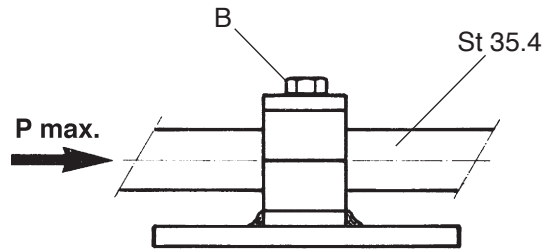
Beperkt bestendig
Résistance limitée
Limited resistanc
Bedingt beständig

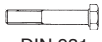






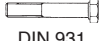






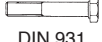




X Niet bestendig
Mauvaise résistance
Non resistant
nicht beständig

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Aandraaimomenten van bouten en axiale klemkracht
Couple de serrage et charge maximum en direction axial

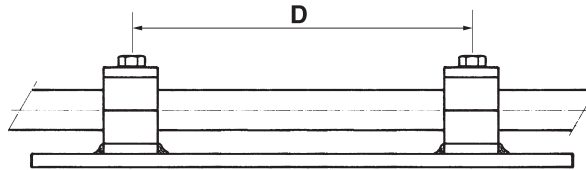
Bolt tightening torques and maximum axial clamp force
Schraubenanzug und axiale Rohrhalte kraft



NORMAFIX SERIE 3930							
Se	B	PP		PAG		ALU	
	 DIN 931	 Nm	 P max. kN	 Nm	 P max. kN	 Nm	 P max. kN
1	M6	8	0,7	10	0,7	12	3,6
2		8	1,2	10	0,9	12	4,3
3		8	1,5	10	1	12	4,4
4		8	1,7	10	1,8	12	4,8
5		8	1,8	10	1,9	12	5,2
6		8	2	10	2,1	12	7,5
7		8	2,2	10	2,8	12	9
8		8	2,3	10	2,5		
9		8	2,4	10	2,5		
MAXIFIX SERIE 4930							
Se	B	PP		PAG		ALU	
	 DIN 931	 Nm	 P max. kN	 Nm	 P max. kN	 Nm	 P max. kN
1	M10	13	1,8	21	4,5	32	13
2	M10	13	3	21	4,7	32	16
3	M10	15	3,5	25	5,2	37	16,5
4	M12	30	8,5	40	9,5	55	30,5
5	M16	46	11,5	56	27	125	36,4
6	M20	80	15	155	25	225	71,7
7	M20	100	30	185	34	235	62,5
8	M30	190	41	360	50	500	86,7
9	M30	210	125	380	130	500	190,5
TWINFIX SERIE 3930							
Se	B	PP		PAG			
	 DIN 931	 Nm	 P max. kN	 Nm	 P max. kN		
1	M6	6	1,1	6	1,1		
2	M8	13	2,5	13	2,5		
3	M8	13	2,1	13	2,1		
4	M8	13	2,9	13	3,1		
5	M8	9	2,2	9	2,7		

Beugelafstand
Distance enter colliers

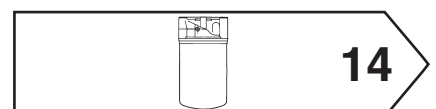
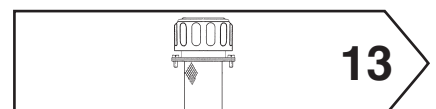
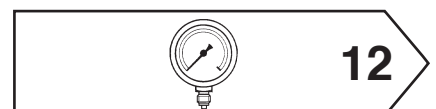
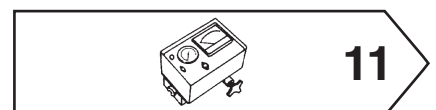
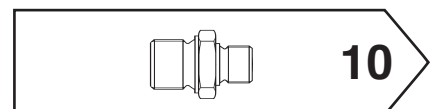
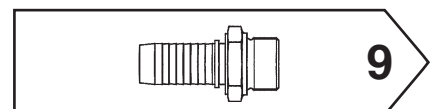
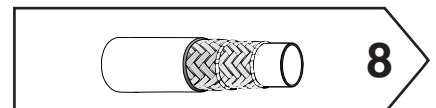
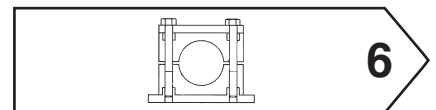
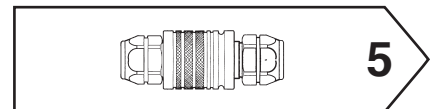
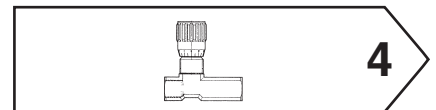
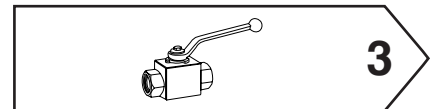
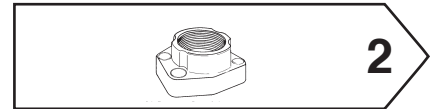
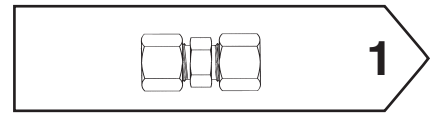
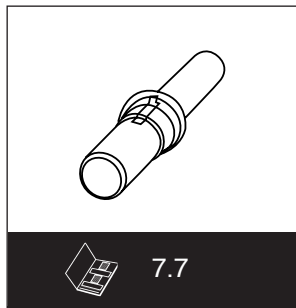
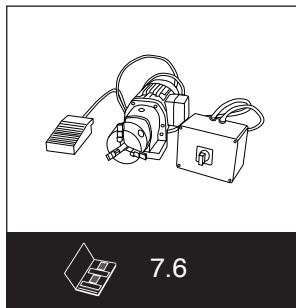
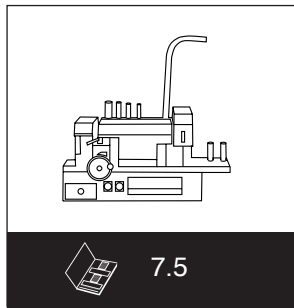
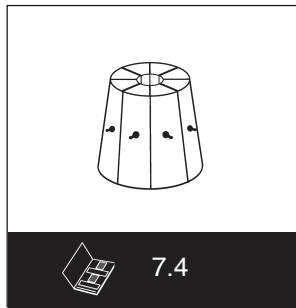
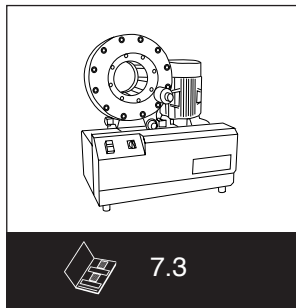
Distance between clamps
Schellenabstand



6

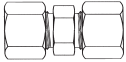
Type	REF.	Se		D
Normafix Twinfix Vibrafix Superfix	3900 / 3930	1	6÷13,25	0,9 m
		2	6÷13,25	1 m
		3	14÷18	1,2 m
	4	20÷25,4	1,5 m	
	5	28÷32	1,5 m	
	6	32÷45	2,2 m	
	7	45÷54	2,7 m	
	8	57,2÷76,1	3,2 m	
	9	88,9÷102	4 m	
Maxifix Vibrafix	4930	1	6÷20	1 m
	5930	2	20÷30	1,5 m
		3	30÷45	2,2 m
		4	38÷50	2,2 m
		4	53÷70	3 m
		5	65÷73	3 m
		5	80÷90	3,5 m
		6	100÷121	4,5 m
		7	133÷168	5 m
8	168÷219	6 m		
9	219÷324	6,7 m		
Bigfix	8900	1	166÷220	6 m
		2	221÷275	6,7 m
		3	276÷325	7 m
		4	326÷370	7,2 m
		5	371÷425	7,8 m
		6	426÷480	8 m
		7	481÷550	8,5 m
		8	551÷630	9 m
		9	631÷715	10 m
		10	716÷800	12 m

ATZ Aandrijftechniek B.V. (026-3112611)



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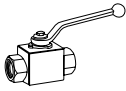
1



2



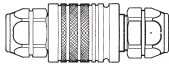
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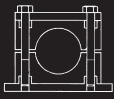
4



5



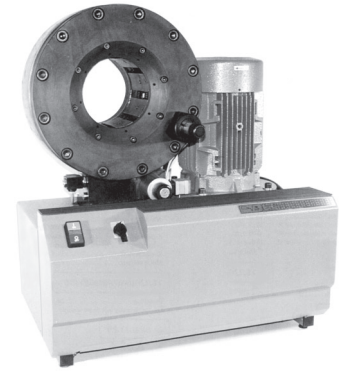
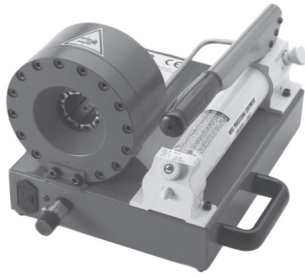
6


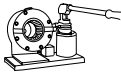
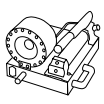
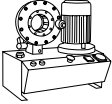
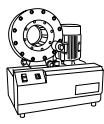
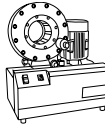
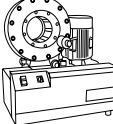
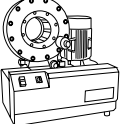






























1250

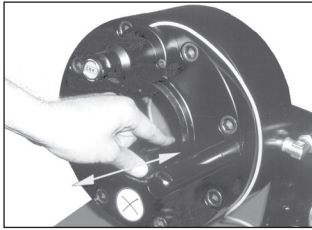
Persmachine
Machine à sertir
Crimp machine
Schlauchpresse

 **PRODUCT INFO**

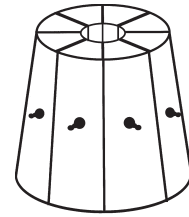


REF.	1250-0416	1250-0216-H	1280-0316	1250-0416-E	1250-0420	1250-0424	1250-0432	1250-4-0432
								
								
 1,2 & 3 TB	1/4" ÷ 1"	1/4" ÷ 1" (1/8")	3/16-1"	1/4" ÷ 1"	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 2"	1/4" ÷ 2"
 1 & 2 SB	1/4" ÷ 3/4"	1/4" ÷ 1"	3/16-1"	1/4" ÷ 1"	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 2"	1/4" ÷ 2"
 4 SPB	1/4" ÷ 3/4"	1/4" ÷ 1"	-	1/4" ÷ 1"	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 2"	1/4" ÷ 2"
 6 SPB	-	-	-	-	-	-	-	3/4" ÷ 1.1/2"
 min. pers sertir crimp Press Ø mm	15,22,32	15,21,27,33	10,12,14,16 19,23,27,31	15,18,21,27 33,39	15,21,27,33,39, 45,51	15,21,27,33,39, 45,51,57	15,21,27,33,39, 45,51,57,66	15,21,27,33,39, 45,51,57,66,73
 max. pers sertir crimp Press Ø mm	43	43	46	43	66,5	70	75,5	82,5
 max. opening ouverture opening Öffnung Ø mm	70	33 ÷ 51	59	33 ÷ 57	53 ÷ 89	53 ÷ 95	53 ÷ 104	53 ÷ 111
 mm max. zonder persvingers sans jeu de mors without dies ohne Pressbacken	70	90	59	90	110	110	160	160
 persvingerhoogte hauteur jeu de mors height of dies Höhe von Pressbacken	50	56	10÷27: H=55 31: H=65	15÷21: H=56 33÷39: H=62	15÷21: H=56 27÷51: H=90	15÷21: H=56 27÷57: H=90	15÷21: H=56 27÷57: H=90 66: H=125	15÷21: H=56 27÷57: H=90 66÷73: H=125
 1  2	1	1	1	2	2	2	2	2
 M kW	-	-	-	3	3	4	4	5,5
 M Volt - 50 Hz Amp. (start)	-	-	-	220/380 10,5	220/380 10,5	220/380 16,5	220/380 16,5	220/380 19,5
 BAR	400	300	700	315	290	315	350	350
   V (sec) max.	-	-	-	± 15	± 11	± 11	± 12	± 9
 L ISO HV 46 - Ltr.	1	1	0,4	12	12	12	25	30
 L x B x H mm	380x230x400	480x250x340	390x250x340	560x400x600	600x390x630	600x390x630	680x400x750	690x465x790
 kg	46	55	26	105	180	185	225	260

1251 ÷ 1253



Persvingers
Jeu de mors
Dies
Pressbacken

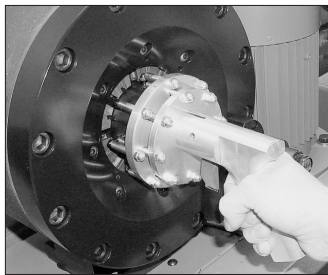


7

REF.	min. Ø mm			min. Ø mm													max. Ø mm	inch ±
	15	22	32	12	15	18	21	27	33	39	45	51	57	66	73			
1250-0416	1251-15																22	1/4-3/8
		1251-22															32	1/2-5/8
			1251-32														43	5/8-3/4
1250-0416-1*				1252-12													22	3/16-1/4
				1252-15													25	1/4-5/16
					1252-18												28	5/16-3/8
						1252-21											31	3/8-1/2
							1253-27										37	5/8
								1253-33									43	3/4
									1253-39								49	1
1250-0216-H*					1252-15												25	1/4-3/8
							1252-21										31	3/8-1/2
								1253-27									37	5/8-3/4
1250-4-0432* 1250-0432* 1250-0424* 1250-0420*					1252-12												18	3/16-1/4
					1252-15												21	1/4-3/8
							1252-21										27	3/8-1/2
								1252-27									33	5/8-3/4
									1252-33								39	3/4-1
										1252-39							45	1
											1252-45						51	1.1/4
												1252-51					57	1.1/4-1.1/2
													1252-57				66.5	1.1/2
														1252-57			66.5	1.1/2
														1252-66		75.5	2	
															1252-73	82.5	2	

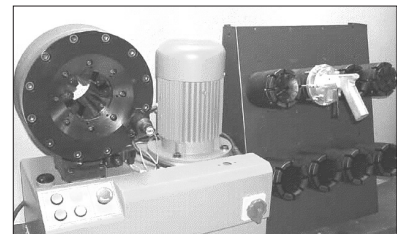
* Ø18, 24, 30, 36, 42, 48, 54, 60 mm (Ø70 1250-0424)

REF. Standaard/Standard REF. Optioneel/Option

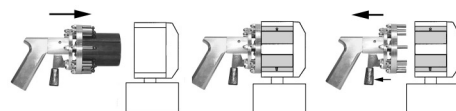
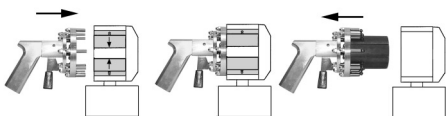


1258-1

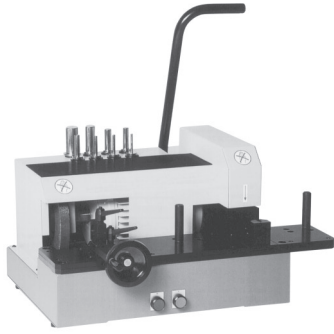
Snelwisselsysteem
Système changement rapide
Tool for quick changing
Schnellwechselgerät



PRODUCT INFO



ATZ Aandrijftechniek B.V. (026-3112611)



1260
1261

Snij- en borstelmaschine
Machine à couper/dénuder
Hose cut-off and stripping machine
Schlauchtrenn- und Bürstmaschine

PRODUCT INFO



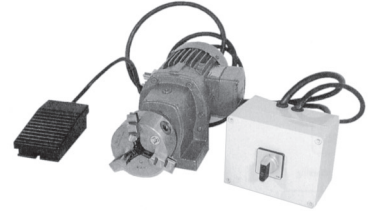
REF.	1260-0420	1260-0424	1261-0416	1261-0420	1261-0424	1261-0432
1,2 & 3 TB	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 1"	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 2"
1 & 2 SB	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 1"	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 2"
4 SPB	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 1"	1/4" ÷ 1.1/4"	1/4" ÷ 1.1/2"	1/4" ÷ 2"
6 SPB	-	-	-	-	-	3/4" ÷ 2"
kW	2,2	3	2,2	2,2	3	7,5
Volt - Hz Amp. start	220/380 - 50 Hz 34 (1/10 sec.)	220/380 - 50 Hz 34 (1/10 sec.)	220/380 - 50 Hz 30 (1/10 sec.)	220/380 - 50 Hz 34 (1/10 sec.)	220/380 - 50 Hz 34 (1/10 sec.)	220/380 - 50 Hz 110 (1/10 sec.)
rpm	3000	3000	3000	3000	3000	3000
L x B x H mm	670 x 500 x 370	670 x 500 x 370	500 x 520 x 370	670 x 500 x 650	670 x 500 x 650	830 x 800 x 1
kg	66	70	55	60	60	215
REF.	1260-300	1260-300	1260-300	1260-300	1260-300	1260-520
ØA x ØB x D mm	300 x 25,4 x 3	300 x 25,4 x 3	300 x 25,4 x 3	300 x 25,4 x 3	300 x 25,4 x 3	520 x 40 x 4
REF.	1260-200	1260-200	-	-	-	-
ØA x ØB x D mm	200 x 25 x 20	200 x 25 x 20	-	-	-	-

1262 ÷ 1265

Afpeggereedschap
Équipement pour dénuder
Stripping tool
Schälwerkzeug



PRODUCT INFO

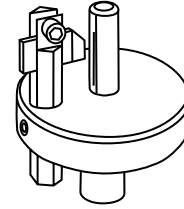
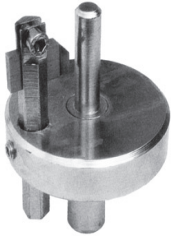


7

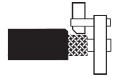
REF.	1262-0420	1262-0432	1263-1220	1263-0832	1264-0432	1265-0420	1265-0432
1 & 2 SB	1/4" ÷ 1.1/4"	1/4" ÷ 2"	3/4" ÷ 1.1/4"	1/2" ÷ 2"	1/4" - 2"	1/4" ÷ 1.1/4"	1/4" ÷ 2"
4 SPB	1/4" ÷ 1.1/4"	1/4" ÷ 2"	3/4" ÷ 1.1/4"	1/2" ÷ 2"	1/4" - 2"	1/4" ÷ 1.1/4"	1/4" ÷ 2"
6 SPB	3/4" ÷ 1.1/4"	3/4" ÷ 2"	3/4" ÷ 1.1/4"	1/2" ÷ 2"	1/4" - 2"	1/4" ÷ 1.1/4"	3/4" ÷ 2"
rpm max.	750		50		+ 50	50	
kW	-		-		0,25	-	
Volt-Hz Amp. start			-		220/380 - 50 Hz 5	-	
REF.	8x	10x	3x	7x	1x	1x + 8x	1x + 10x
L x B x H mm			-		430 x 190 x 150	200 x 200 x 50	
L	1/4÷3/4 L=15÷60 mm 1÷2 L=15÷100 mm		-		-	1/4÷2 L=20÷95 mm	
L	-		0 ÷ 30 mm		-	-	
kg	13,5	20	5,5	13,9	17	8	9,2

1262

Afpeelgereedschap
Équipement pour dénuder ext.
External stripping tool
Schälwerkzeug Aussenseite



PRODUCT INFO

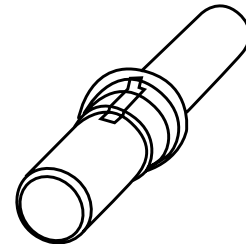


	 	ØA	ØB	L	 	 kg	Fe/Zn/YP REF.
	3/16 1/4 5/16 3/8 1/2 5/8 3/4 1 1.1/4 1.1/2 2	80	20	30	15 ÷ 60	1,1	1262-03
	80	20	30	15 ÷ 60	1,1	1262-04	
	80	20	30	15 ÷ 60	1,1	1262-05	
	80	20	30	15 ÷ 60	1,1	1262-06	
	80	20	30	15 ÷ 60	1,1	1262-08	
	80	20	30	15 ÷ 60	1,1	1262-10	
	80	20	30	15 ÷ 60	2,5	1262-12	
	120	20	30	15 ÷ 100	2,5	1262-16	
	120	20	30	15 ÷ 100	2,9	1262-20	
	120	20	30	15 ÷ 100	2,9	1262-24	
	120	20	30	15 ÷ 100	3,7	1262-32	

7

1263

Uitpeelgereedschap
Équipement pour dénuder int.
Internal stripping tool
Schälwerkzeug Innenseite

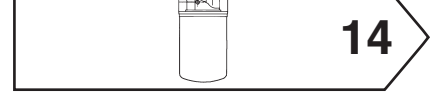
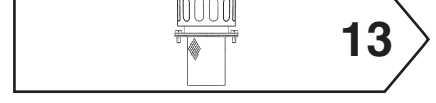
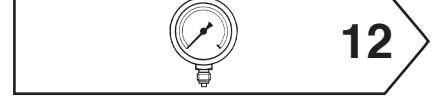
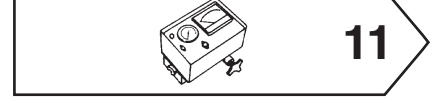
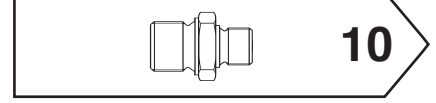
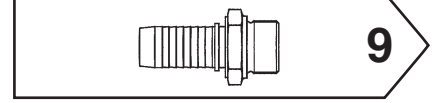
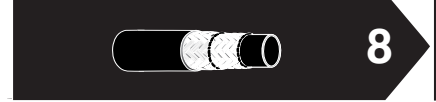
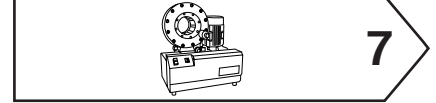
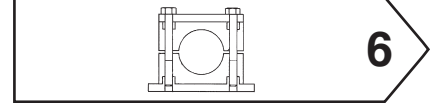
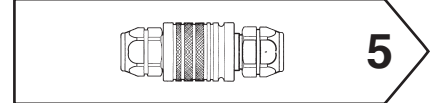
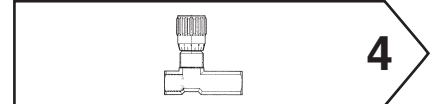
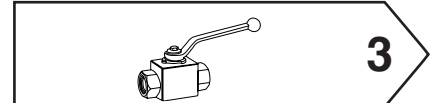
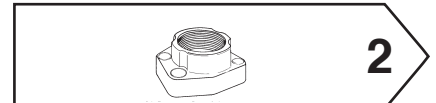
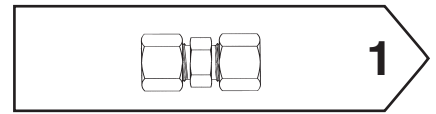
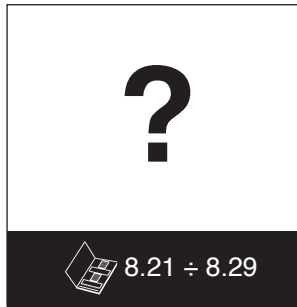
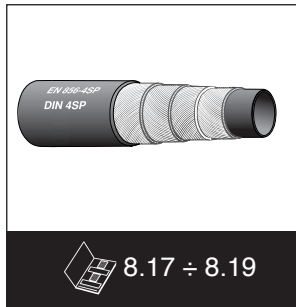
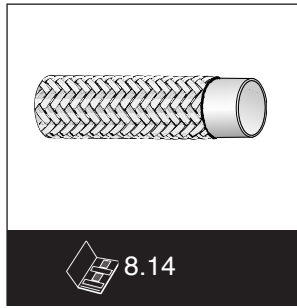
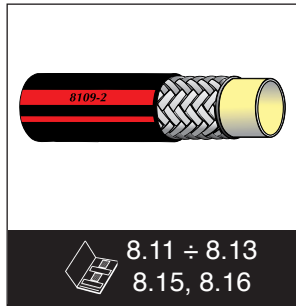
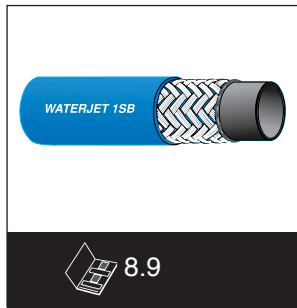


PRODUCT INFO



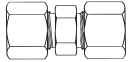
	 	A mm	L1 mm	 L max. mm	 kg	Fe/Zn/YP REF.
	1/2 5/8 3/4 1 1.1/4 1.1/2 2	36	80	30	0,8	1263-08
	36	80	30	0,8	1263-10	
	36	80	30	1,0	1263-12	
	36	80	30	2,0	1263-16	
	36	80	30	2,5	1263-20	
	36	80	30	3,3	1263-24	
	36	80	30	3,5	1263-32	

ATZ Aandrijftechniek B.V. (026-3112611)



ATZ Aandrijftechniek B.V. (026-3112611)

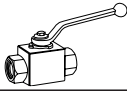
1



2



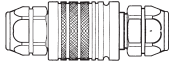
3



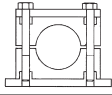
4



5



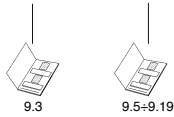
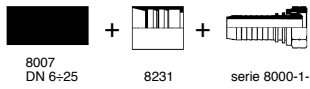
6



7

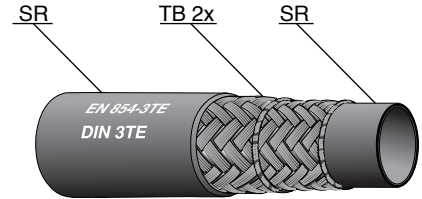


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8007

Middeldrukslang
Tuyau moyenne pression
Medium pressure hose
Mitteldruckschlauch



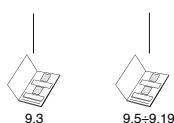
& => 17 bar:

EN 854-3TE

DIN 20 021 3TE

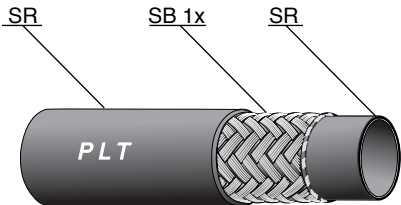
↔			↔										SR REF.
DN	INCH	mm	min.	max.			mm	BAR	BAR	BAR min.		g/m	
6	1/4	6,4	13,6	15,6			45	145	345	580		150	8007-004
8	5/16	7,9	16,1	17,7			55	130	315	520		210	8007-005
10	3/8	9,5	17,7	19,3			70	110	265	440		230	8007-006
12	1/2	12,7	20,7	22,7			85	93	225	370		290	8007-008
16	5/8	15,9	24,9	26,9			105	80	195	320		390	8007-010
20	3/4	19,0	28,0	30,0			130	70	165	280		450	8007-012
25	1	25,4	34,4	37,4			150	55	130	220		570	8007-016

8



8008

Stuurslang
Tuyau de commande
Control hose
Steuerschlauch



& => 17 bar:

PLT

↔			↔										SR REF.
DN	INCH	mm					mm	BAR	BAR	BAR min.		g/m	
6	1/4	6,4		11,4			30	120	240	480		140	8008-004
8	5/16	7,9		13,0			40	120	240	480		110	8008-005
10	3/8	9,5		14,7			60	120	240	480		170	8008-006

GECERTIFICEERDE KWALITEIT HOGEDRUKSLANGEN

Sinds begin 2001 is er een nieuwe test- en spoelunit bij Hydroflex in gebruik genomen.

Met deze installatie kunnen hydraulieslangen volledig automatisch computergestuurd getest en gespoeld worden. Veel bestaande testsystemen werken met water als testmedium waardoor er na een test altijd verontreinigd water achterblijft wat na montage van de slang in het hydraulisch systeem terecht komt. Daarom wordt er in de nieuwe installatie getest en gespoeld met een minerale olie die volledig compatible is met standaard minerale hydrauliek-olie volgens de standaard ISO klassen.

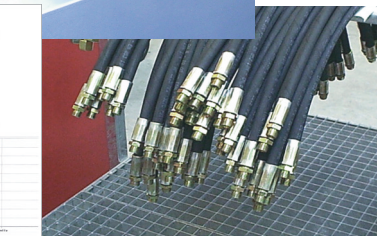
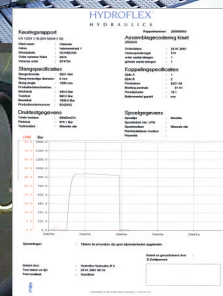
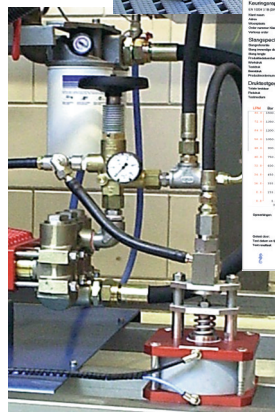
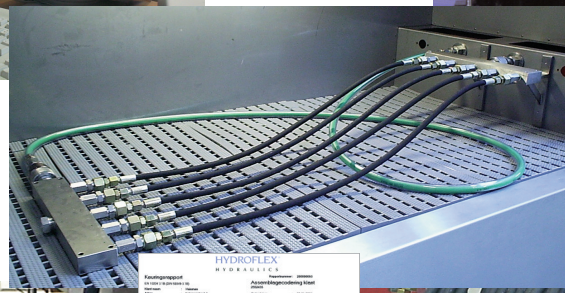
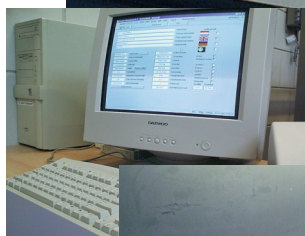
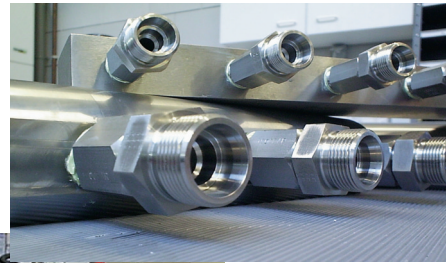
De standaard reinheidsklasse van het spoelmedium volgens ISO is <math><14/11</math> (NAS <math>< 5</math>).

Een hogere reinheidsklasse is in overleg mogelijk.

De reinheidsmeting vindt plaats door de toepassing van een on-line deeltjesteller. Aan het einde van iedere test wordt automatisch een keuringsrapport (EN 10204 3.1B) gegenereerd en uitgeprint met alle specifieke gegevens.

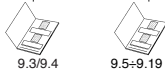
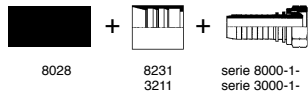
Tevens worden alle data van deze testen digitaal opgeslagen t.b.v. naspeurbaarheid. Na het spoelen worden de slangen zorgvuldig van stofpluggen voorzien en/of verpakt in een dichtgesealde folieverpakking, waardoor de reinheidsklasse is gewaarborgd tot aan de montage.

Voor meer informatie:
HYDROFLEX-HYDRAULICS BV
TEL. 0186-620777.
E-mail: sales@hydroflex.nl



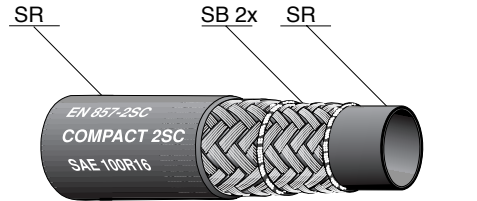
TESTEN, SPOELEN, REGISTREREN EN RAPPORTEREN!

ATZ Aandrijftechniek B.V. (026-3112611)



8028

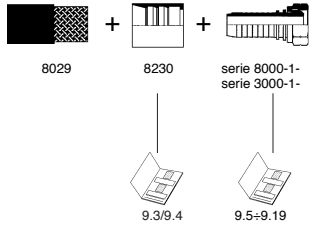
Zeer flexibele hogedrukslang
Tuyau haute pression très flexible
High pressure very flexible hose
Hochdruckschlauch, extra elastisch



REF. 8028-XXX-ECO
 EN 857-2SC
COMPACT 2SC
 SAE 100R16
 DIN 20 022 1SN
 2 ST/2SN

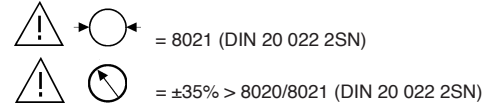
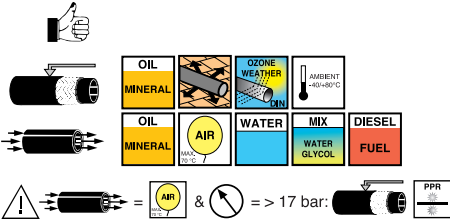
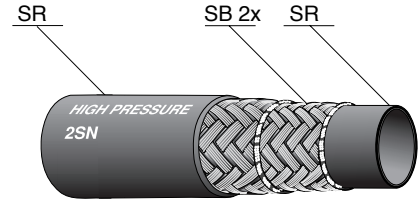
↔			↔	↕		↕	↕	↕	↕	↕	↕	↕
DN	INCH	MM	mm	min.	max.	r min. mm	EN BAR	EN BAR	EN BAR min.		g/m	SR REF.
6	1/4	6,4	13,4	10,6	11,7	51	400	800	1600		270	8028-004
8	5/16	7,9	15,0	12,1	13,3	57	375	750	1500		340	8028-005
10	3/8	9,5	17,4	14,4	15,6	64	350	700	1400		420	8028-006
12	1/2	12,7	20,6	17,5	19,1	90	310	620	1240		550	8028-008
16	5/8	15,9	23,7	20,5	22,3	101	280	560	1120		660	8028-010
20	3/4	19,0	27,7	24,6	26,4	121	240	480	960		870	8028-012
25	1	25,4	35,6	32,5	34,3	152	185	370	740		1280	8028-016

ATZ Aandrijftechniek B.V. (026-3112611)



8029

Extra hogedrukslang
Tuyau très haute pression
Very high pressure hose
Extra Hochdruckschlauch



↔			↻		mm		r min. mm	BAR	BAR	BAR min.	g/m	SR REF.
DN	INCH	MM	min.	max.	min.	max.						
12	1/2	12,7	21,1	22,5	19,4	20,7	150	350	700	1400	720	8029-008
16	5/8	15,9	24,5	26,0	22,5	23,8	190	350	700	1400	860	8029-010
20	3/4	19,0	28,5	30,0	26,5	27,8	230	280	560	1120	1050	8029-012
25	1	25,4	37,3	38,6	34,3	35,6	300	210	420	840	1500	8029-016
32	1.1/4	31,8	47,1	48,8	43,9	45,2	400	160	320	640	2170	8029-020

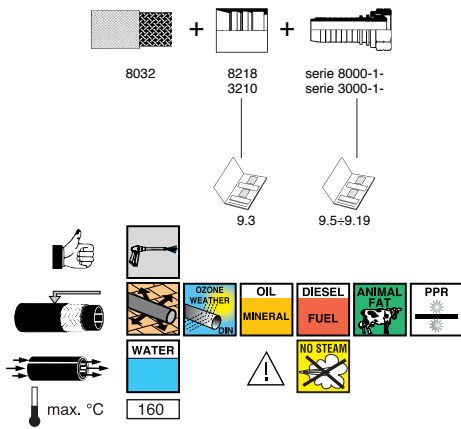
8

Vergelijkingstabel
 Tableau comparatif
 Table of comparison
 Vergleichstabelle

REF. 8029 : REF. 8020/8021
 REF. 9041

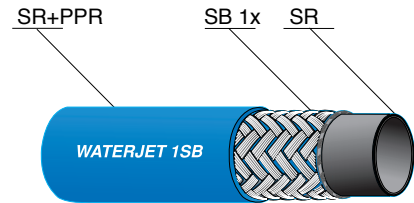
↔		↻	↻	⚠ ↻		↻
DN	INCH	BAR dyn.	BAR dyn.	% > Ref. 8020/8021	% < Ref. 9041	BAR dyn.
12	1/2	275	350	+27%	-16%	415
16	5/8	250	350	+40%	0%	350
20	3/4	215	280	+30%	-20%	350
25	1	165	210	+27%	-25%	280

ATZ Aandrijftechniek B.V. (026-3112611)



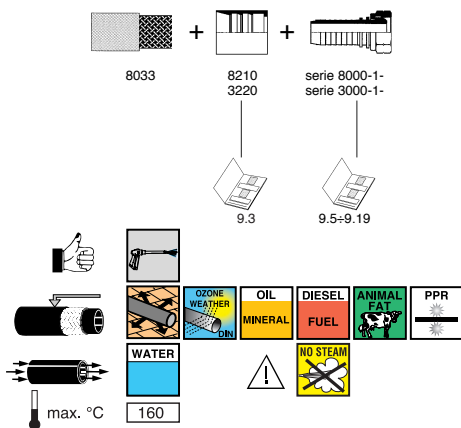
8032

Reinigingslang
Tuyau de nettoyage
Cleaning hose
Reinigungsschlauch



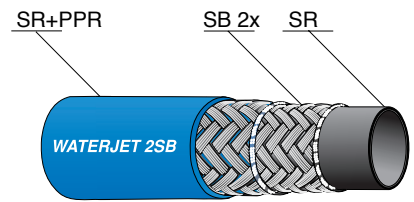
WATERJETTING 1SB

												SR REF.
DN	INCH	MM	mm	min.	max.	r min. mm	BAR	BAR	BAR min.		g/m	
6	1/4	6,4	12,1			50	210	420	840		150	8032-004
8	5/16	7,9	14,1			60	210	420	840		220	8032-005
10	3/8	9,5	15,6			65	210	420	840		260	8032-006
12	1/2	12,7	19,5			90	210	420	840		410	8032-008



8033

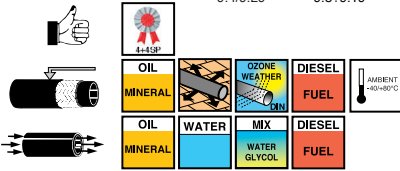
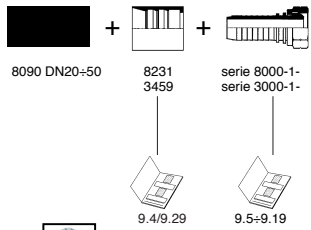
Reinigingslang
Tuyau de nettoyage
Cleaning hose
Reinigungsschlauch



WATERJETTING 2SB

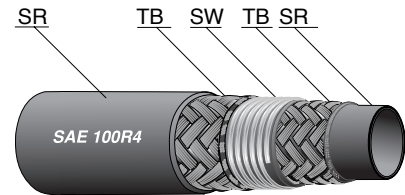
												SR REF.
DN	INCH	MM	mm	min.	max.	r min. mm	BAR	BAR	BAR min.		g/m	
8	5/16	7,9	15,0			76	400	800	1500		310	8033-005
10	3/8	9,5	17,4			90	400	800	1400		400	8033-006
12	1/2	12,7	20,6			115	400	800	1240		510	8033-008

* zwart/noir/black/schwarz



8090

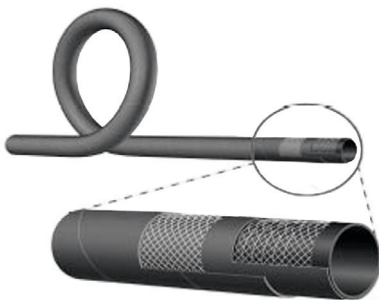
Zuigslang
Tuyau d'aspiration
Suction hose
Saugschlauch



SAE 100R4

↔			↺↻	⊕			⏏		↻	↻	⚡	⚡	⚡	⚡	⚡	SR REF.
DN	INCH	MM	mm	%	Hg/mm max.	BAR min. absolute	r min. mm	r min. (AG) mm	SAE (AG) BAR	SAE BAR	SAE (AG) BAR min.					
20	3/4	19,0	29	100	760	0	130	95	21	41	83				589	8090-012
25	1	25,4	35	100	760	0	150	125	17	34	69				727	8090-016
32	1.1/4	31,8	42	100	760	0	200	160	14	28	55				899	8090-020
40	1.1/2	38,1	48	100	760	0	250	190	10	21	41				1035	8090-024
50	2	50,8	61	100	750	0	300	255	7 (10)	14	28 (30)				1334	8090-032
65	2.1/2	63,5	75	90	684	0,1	360	315	4 (10)	9	17 (30)				1924	8090-040
75	3	76,2	88	90	684	0,1	460	380	4 (10)	8	15 (30)				2538	8090-048
90	3.1/2	88,9	104	90	684	0,1	530	450	3 (10)	6	12 (30)				3028	8090-056
100	4	101,6	1165	90	684	0,1	610	510	2 (10)	5	10 (30)				3383	8090-064

NIEUWE TECHNOLOGIE



De behoefte om aan eisen te voldoen bij toepassingen, waar flexibiliteit een essentieel punt is, heeft ALFAGOMMA ertoe aangezet om een innovatieve structuur te ontwikkelen genaamd

4+4 SP & 4+4 SP PLUS

bestaande uit 4 textiel spiralen en 4 stalen spiralen, waarmee de maatschappij alle zuig- en persslangen produceert. De vier textiel spiralen verzekeren maat stabiliteit en druk controle, terwijl de vier stalen spiralen de slangen vacuüm bestendig en zeer flexibel maken.

4+4 SP structuren verzekeren een buigradius variërend van vier tot vijf maal de inwendige diameter.

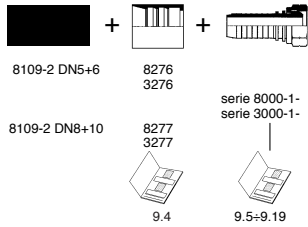
4+4 SP PLUS structuren zijn ontworpen voor die slangen, die voor hun toepassing een kritische buigradius vragen, drie maal de inwendige diameter.

4+4SP en 4+4 SP PLUS concepten maken de behoefte aan gegolfde slangen, om de buigradius te verbeteren, overbodig.

In de catalogus worden slangen met bovengenoemde structuur gemarkeerd met het volgende teken:

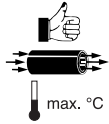
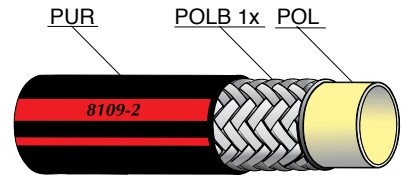


ATZ Aandrijftechniek B.V. (026-3112611)



8109-2

LD kunststofslang
Tuyau thermoplastique BP
LP thermoplastic hose
Thermoplastische Schlauch ND



OIL	PHOSPHATE ESTER	WATER	MIX	MIX	CHEMICALS
MINERAL	HYDRAUL		WATER GLYCOL	WATER OIL	
93	93	65	65	65	

↔		↔	↔							PUR-POL REF.
DN	INCH	mm	mm	r min. mm	BAR	BAR	BAR min.		g/m	
5	3/16	8,9		35	125	250	500		50	8109-2-03
6	1/4	11,1		90	112	224	450		75	8109-2-04
8	5/16	13,1		65	112	224	450		100	8109-2-05
10	3/8	15,1		75	100	200	400		125	8109-2-06

REF. SR1



REF. SR8



ATZ Aandrijftechniek B.V. (026-3112611)

8106 DN5+6 + 8276 3276 + serie 8000-1-serie 3000-1

8106 DN8+12 + 8277 3277

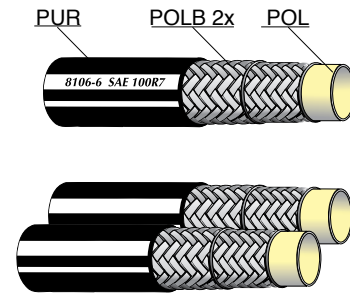
9.4 9.5-9.19

OIL	PHOSPHATE ESTER	WATER	MIX	MIX	CHEMICALS
MINERAL	SKYDROL PYDRAUL	WATER	WATER GLYCOL	WATER OIL	
93	93	65	65	65	

max. °C

8106-6 8106-3

**Kunststofslang
Tuyau thermoplastique
Thermoplastic hose
Thermoplastische Schlauch**



EN 855-R7 - ISO 3949

SAE 100R7

↔		↔	↔						PUR-POL REF.
DN	INCH	mm	mm	r min. mm	SAE BAR	SAE BAR	SAE BAR min.	g/m	
8106-6									
5	3/16	9,6		25	207	411	827	60	8106-6-03
6	1/4	12,2		30	190	379	758	95	8106-6-04
8	5/16	14,4		45	172	345	689	125	8106-6-05
10	3/8	15,9		55	155	310	620	145	8106-6-06
12	1/2	20,3		75	138	276	552	215	8106-6-08
16	5/8	23,7		110	103	207	414	270	8106-6-10
20	3/4	27,1		140	86	172	345	320	8106-6-12
25	1	34		190	69	138	276	445	8106-6-16
8106-3									
6	1/4	12,2	24,4	30	190	379	758	190	8106-3-04
8	5/16	14,4	28,8	45	172	345	689	250	8106-3-05
10	3/8	15,9	31,8	55	155	310	620	290	8106-3-06

8

8108 DN5+6+8+12 + 8276 3276 + serie 8000-1-serie 3000-1

8108 DN10, DN12 + 8277 3277

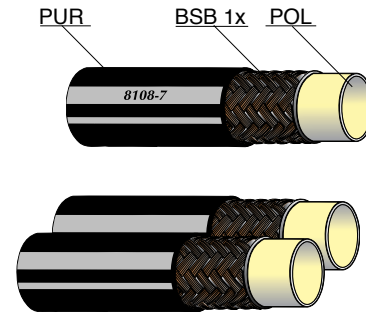
9.4 9.5-9.19

OIL	PHOSPHATE ESTER	WATER	MIX	MIX	CHEMICALS
MINERAL	SKYDROL PYDRAUL	WATER	WATER GLYCOL	WATER OIL	
93	93	65	65	65	

max. °C

8108-7 8108-8

**Kunststofslang
Tuyau thermoplastique
Thermoplastic hose
Thermoplastische Schlauch**



↔		↔	↔						PUR-POL REF.
DN	INCH	mm	mm	r min. mm	BAR	BAR	BAR min.	g/m	
8108-7									
5	3/16	8,9		30	275	550	1100	113	8108-7-03
6	1/4	11,7		40	275	550	1100	165	8108-7-04
8	5/16	13,4		55	212	424	850	186	8108-7-05
10	3/8	15,9		65	212	424	850	264	8108-7-06
12	1/2	18,4		85	175	350	700	300	8108-7-08
8108-8									
6	1/4	11,7	23,4	40	275	550	1100	330	8108-8-04
8	5/16	13,4	26,8	55	212	424	850	372	8108-8-05
10	3/8	15,9	31,8	65	212	424	850	528	8108-8-06
12	1/2	18,4	36,8	85	175	350	700	600	8108-8-08

ATZ Aandrijftechniek B.V. (026-3112611)

8109 DN5+6
8110 DN5+6

8276
3276

8109-DN8+12
8110-DN8+12

8277
3277

serie 8000-1-
serie 3000-1-

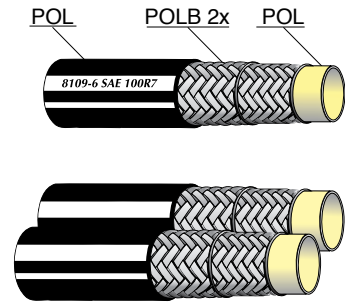
9.4
9.5-9.19

max. °C

OIL	PHOSPHATE ESTER	WATER	MIX	MIX	CHEMICALS
MINERAL	SKYDROL PYDRAUL		WATER GLYCOL	WATER OIL	
93	93	65	65	65	

8109-6
8110-0

Kunststofslang
Tuyau thermoplastique
Thermoplastic hose
Thermoplastische Schlauch



EN 855-R7 - ISO 3949

SAE 100R7

↔		↔	↔							POL REF.
DN	INCH	mm	mm	r min. mm	SAE BAR	SAE BAR	SAE BAR min.		g/m	
8109-6										
5	3/16	9,6		25	207	411	827		60	8109-6-03
6	1/4	12,2		30	190	379	758		95	8109-6-04
8	5/16	14,4		45	172	345	689		125	8109-6-05
10	3/8	15,9		55	155	310	620		145	8109-6-06
12	1/2	20,3		75	138	276	552		215	8109-6-08
8110-0										
6	1/4	12,2	24,4	30	190	379	758		190	8110-0-04
8	5/16	14,4	28,8	45	172	345	689		250	8110-0-05

8

8110 DN5+6
8111 DN5+6

8276
3276

8110 DN10+12
8111 DN10+12

8277
3277

serie 8000-1-
serie 3000-1-

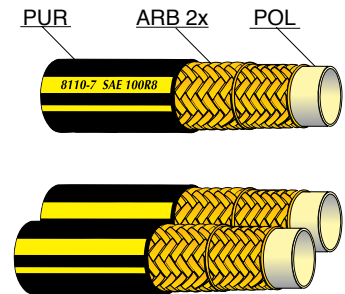
9.4
9.5-9.19

max. °C

OIL	PHOSPHATE ESTER	WATER	MIX	MIX	CHEMICALS
MINERAL	SKYDROL PYDRAUL		WATER GLYCOL	WATER OIL	
93	93	65	65	65	

8110-7
8111-1

HD kunststofslang
Tuyau thermoplastique HP
HP thermoplastic hose
Thermoplastische Schlauch HD

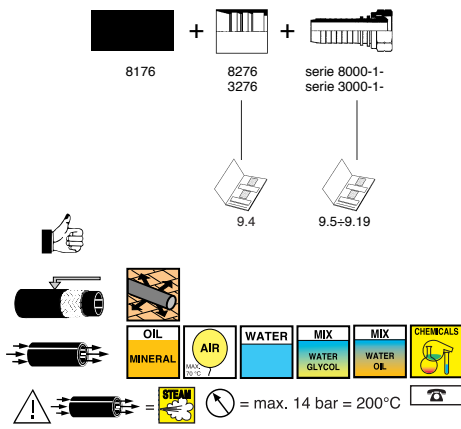


EN 855-R8 - ISO 3949

SAE 100R8

↔		↔	↔							PUR-POL REF.
DN	INCH	mm	mm	r min. mm	SAE BAR	SAE BAR	SAE BAR min.		g/m	
8110-7										
5	3/16	9,5		25	345	689	1379		60	8110-7-03
6	1/4	12,4		30	345	689	1379		100	8110-7-04
8	5/16	14,0		45	300	600	1200		115	8110-7-05
10	3/8	16,0		55	276	552	1103		145	8110-7-06
12	1/2	20,2		75	241	483	965		210	8110-7-08
8111-1										
6	1/4	12,4	24,4	30	345	689	1379		200	8111-1-04
10	3/8	16,0	31,8	55	276	552	1103		290	8111-1-06
12	1/2	20,2	40,4	75	241	483	965		420	8111-1-08

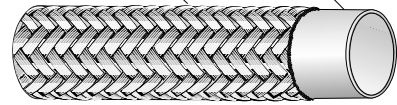
ATZ Aandrijftechniek B.V. (026-3112611)



8176

TEFLON® slang
Tuyau TEFLON®
TEFLON® hose
TEFLON®-Schlauch

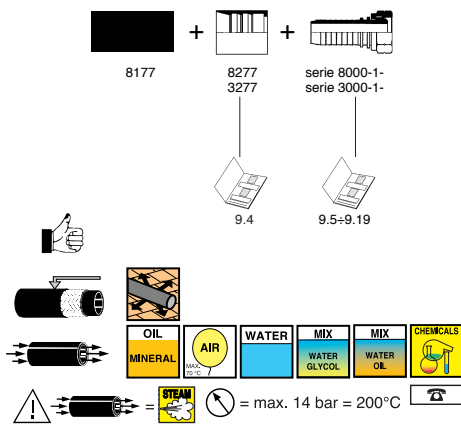
SSB/Ws.nr. 1.4301 PTFE (Teflon®)-



↔			↔			↻					↻		RVS-PTFE REF.
DN	INCH	MM	mm	m +/-	r min. mm	BAR +20/+50°C	BAR 100°C	BAR 150°C	BAR 200°C	BAR 250°C	BAR min. +20/+50°C	g/m	
6	1/4	6,4	10,0	150	75	240	228	216	200	192	960	150	8176-04
8	5/16	8,1	11,8	120	100	200	190	171	166	160	800	180	8176-05
10	3/8	10,5	14,0	100	120	175	166	158	145	140	700	240	8176-06
12	1/2	13,0	17,5	70	135	150	142	135	125	120	600	300	8176-08
16	5/8	15,8	20,0	60	160	135	128	122	112	108	540	350	8176-10
20	3/4	20,8	26,0	40	200	100	95	90	83	80	400	510	8176-12
25	1	25,0	30,0	30	250	80	76	72	65	64	320	600	8176-16

8

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8177

TEFLON® slang
Tuyau TEFLON®
TEFLON® hose
TEFLON®-Schlauch

SSB/Ws.nr. 1.4301 (2x) PTFE (Teflon®)



↔			↔			↻					↻		RVS-PTFE REF.
DN	INCH	MM	mm	m +/-	r min. mm	BAR +20/+50°C	BAR 100°C	BAR 150°C	BAR 200°C	BAR 250°C	BAR min. +20/+50°C	g/m	
6	1/4	6,3	11,5	150	75	275	261	247	228	220	1100	230	8177-04
8	5/16	8,0	13,0	120	100	250	237	225	207	200	1000	300	8177-05
10	3/8	10,3	16,0	100	120	225	213	202	186	180	900	380	8177-06
12	1/2	12,8	18,8	70	135	200	190	180	166	160	800	460	8177-08
16	5/8	15,6	21,8	60	160	175	166	157	145	140	700	580	8177-10
20	3/4	20,5	27,6	40	200	150	142	135	124	120	600	840	8177-12
25	1	25,0	31,5	30	250	130	123	117	107	104	520	920	8177-16
32	1.1/4	31,5	39,5	15	500	70	66	63	58	56	280	1300	8177-20
40	1.1/2	38,0	48,0	10	850	50	47	45	41	40	200	1900	8177-24

ATZ Aandrijftechniek B.V. (026-3112611)

8208 DN6+8 8276
3276

8208 DN10 8277
3277

serie 8000-1-
serie 3000-1-

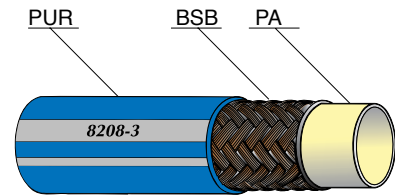
9.4 9.5-9.19

max. °C

AIR	WATER	CHEMICALS
70	65	93

8208-3

Verfspuitslang
Tuyau pour peinture
Paint spray hose
Farbspritzschlauch



↔		↔	↔						PUR-PA REF.
DN	INCH	mm	mm	r min. mm	BAR	BAR	BAR min.	g/m	
5	3/16	9,4		30	275	550	1100	108	8208-3-03
6	1/4	11,7		40	275	550	1100	159	8208-3-04
10	3/8	15,9		65	212	424	850	253	8208-3-06

8209 DN6+8 8276
3276

8209 DN12 8277
3277

serie 8000-1-
serie 3000-1-

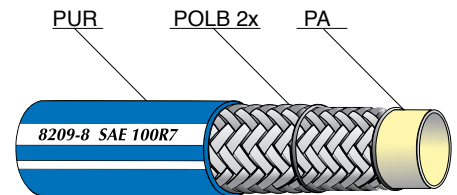
9.4 9.5-9.19

max. °C

AIR	WATER	CHEMICALS
70	65	93

8209-8

Verfspuitslang
Tuyau pour peinture
Paint spray hose
Farbspritzschlauch

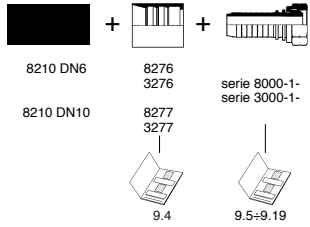


EN 855-R7 - ISO 3949

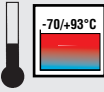
SAE 100R7

↔		↔	↔						PUR-PA REF.
DN	INCH	mm	mm	r min. mm	SAE BAR	SAE BAR	SAE BAR min.	g/m	
5	3/16	9,5		40	235	470	940	108	8209-8-03
6	1/4	11,9		50	212	424	850	159	8209-8-04
10	3/8	16,5		75	190	380	760	253	8209-8-06

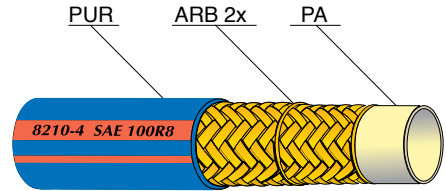
ATZ Aandrijftechniek B.V. (026-3112611)



8210-4

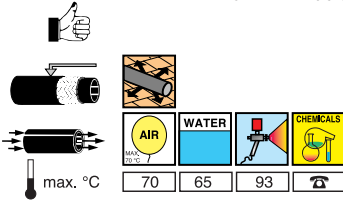


Verfspuitslang
Tuyau pour peinture
Paint spray hose
Farbspritzschlauch



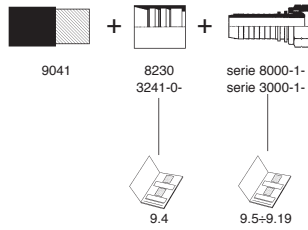
EN 855-R8 - ISO 3949

SAE 100R8



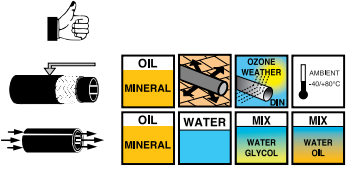
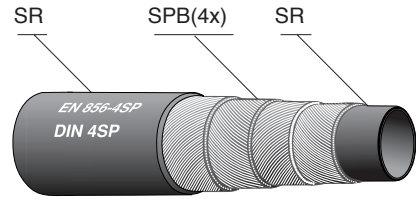
↔		↔	↔	↔	↔	↔	↔	↔	↔	↔
DN	INCH	mm	mm	r min. mm	SAE BAR	SAE BAR	SAE BAR min.	g/m	PUR-PA REF.	
6	1/4	11,9		50	345	689	1379	85	8210-4-04	
10	3/8	16,5		75	276	552	1103	143	8210-4-06	

ATZ Aandrijftechniek B.V. (026-3112611)



9041

**Extra hogedrukslang
Tuyau très haute pression
Very high pressure hose
Extra Hochdruckschlauch**



EN 856-4SP

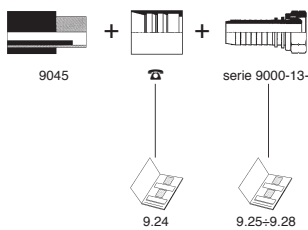
SAE 100R10 >>>>> **DIN 20 023 4SP**

↔			↻		mm		r min. mm	DIN BAR	DIN BAR	DIN BAR min.	g/m	SR REF.
DN	INCH	MM	min.	max.	min.	max.						
6	1/4	6,4	17,3	18,3	14,2	15,2	150	450	1080	1800	610	9041-004
10	3/8	9,5	20,9	21,9	17,0	18,0	180	445	1070	1780	780	9041-006
12	1/2	12,7	24,1	25,1	19,7	20,7	230	415	995	1660	920	9041-008
16	5/8	15,9	28,0	29,0	23,3	24,3	250	350	840	1400	1140	9041-010
20	3/4	19,0	31,5	32,5	27,7	28,7	300	350	840	1400	1490	9041-012
25	1	25,4	39,2	40,2	34,7	35,7	340	280	670	1120	2020	9041-016
32	1.1/4	31,8	50,0	51,6	45,2	46,8	460	210	500	840	3160	9041-020
40	1.1/2	38,1	56,2	57,8	51,6	53,2	560	185	445	740	3680	9041-024
50	2	50,8	69,6	71,6	64,3	66,3	660	165	400	660	5290	9041-032

BIO-OIL SYNTHETIC ESTERS
BIO-OIL POLY GLYCOL

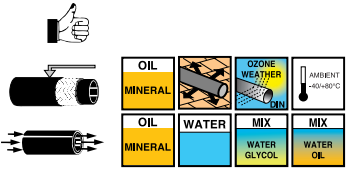
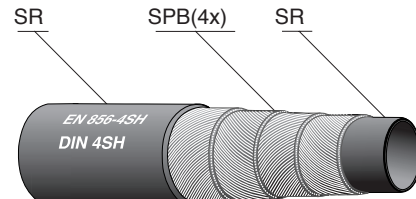
REF. 9041-XXX-ECO

8



9045*

**Extra hogedrukslang
Tuyau très haute pression
Very high pressure hose
Extra Hochdruckschlauch**



* 8.21/8.22

EN 856-4SH

DIN 20 023 4SH

↔			↻		mm		r min. mm	DIN BAR	DIN BAR	DIN BAR min.	g/m	SR REF.
DN	INCH	MM	min.	max.	min.	max.						
20	3/4	19,0	31,5	32,5	27,7	28,7	280	420	1000	1680	1520	9045-012
25	1	25,4	37,7	38,7	34,5	35,5	340	380	920	1520	2050	9045-016
32	1.1/4	31,8	44,4	46,0	41,0	42,6	460	325	780	1300	2460	9045-020
40	1.1/2	38,1	52,7	54,3	48,0	49,6	560	290	700	1160	3360	9045-024
50	2	50,8	67,0	69,0	62,2	64,2	700	250	600	1000	4530	9045-032

BIO-OIL SYNTHETIC ESTERS
BIO-OIL POLY GLYCOL

REF. 9045-XXX-ECO

ATZ Aandrijftechniek B.V. (026-3112611)

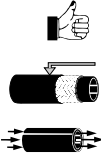


9047

serie 9000-13-

9.24

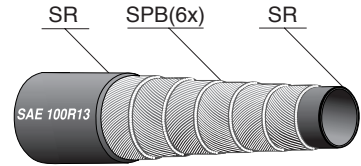
9.25-9.28



OIL MINERAL	OZONE WEATHER RESISTANT	AMBIENT -40/+80°C
OIL MINERAL	WATER WATER GLYCOL	MIX MIX WATER OIL

9047*

**Extra hogedrukslang
Tuyau très haute pression
Very high pressure hose
Extra Hochdruckschlauch**



EN 856-R13
SAE 100R13

↔			↔		↕		r min. mm	SAE BAR	SAE BAR	SAE BAR min.	g/m	SR REF.
DN	INCH	MM	min.	max.	min.	max.						
32	1.1/4	31,8	49,0	50,6	46,0	47,6	419	345	690	1379	3590	9047-020
40	1.1/2	38,1	56,5	58,1	53,2	54,8	508	345	690	1379	4810	9047-024
50	2	50,8	71,0	73,0	67,4	69,4	635	345	690	1379	6900	9047-032

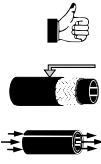
8



9048

serie 9000-13-

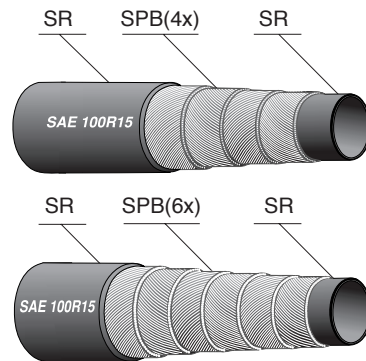
9.25-9.28



OIL MINERAL	OZONE WEATHER RESISTANT	AMBIENT -40/+80°C
OIL MINERAL	WATER WATER GLYCOL	MIX MIX WATER OIL

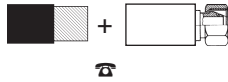
9048*

**Extra hogedrukslang
Tuyau très haute pression
Very high pressure hose
Extra Hochdruckschlauch**



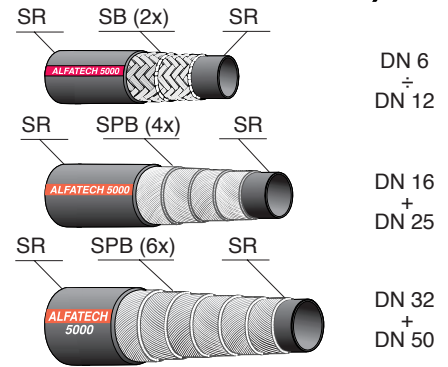
SAE 100R15

↔			↔		↕		r min. mm	SAE BAR	SAE BAR	SAE BAR min.	g/m	SR REF.
DN	INCH	MM	min.	max.	min.	max.						
20	3/4	19,0	31,3	32,7	27,8	28,8	267	420	840	1655	1530	9048-012
25	1	25,4	37,5	38,9	34,5	35,7	267	420	840	1655	2070	9048-016
32	1.1/4	31,8	49,2	50,8	44,8	45,8	267	420	840	1655	3600	9048-020
40	1.1/2	38,1	56,5	58,3	53,2	54,8	315	420	840	1655	4870	9048-024

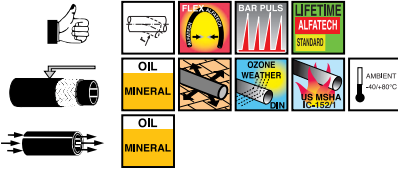


9050*
ALFATECH

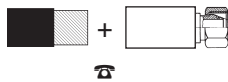
Flexibele extra hogedrukslang
Tuyau flexible très haute pression
Very flexible high pressure hose
Extra Hochdruckschlauch



* DN20-50 8.21/8.22

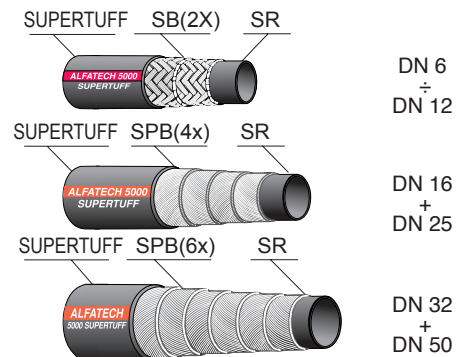


DN	INCH	MM	mm	r min. mm	BAR	BAR	BAR min.	kg/m				SR REF.
												SR REF.
6	1/4	6,4	13,4	51	400	800	1600	0,27				9050-004
10	3/8	9,5	17,4	64	350	700	1400	0,42				9050-006
12	1/2	12,7	22,2	150	350	700	1400	0,77				9050-008
16	5/8	15,9	28,2	125	350	700	1400	1,10				9050-010
20	3/4	19,0	32,2	140	350	700	1400	1,60				9050-012
25	1	25,4	38,7	190	350	700	1400	2,00				9050-016
32	1.1/4	31,8	49,8	210	350	700	1400	3,40				9050-020
40	1.1/2	38,1	57,3	475	350	700	1400	4,80				9050-024
50	2	50,8	71,1	545	350	700	1400	6,80				9050-032

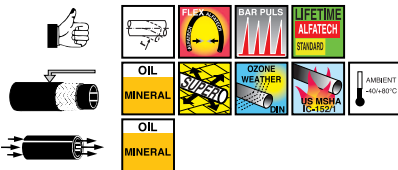


9050-ST*
SUPERTUFF¹⁾

Flexibele extra hogedrukslang
Tuyau flexible très haute pression
Very flexible high pressure hose
Extra Hochdruckschlauch



* DN20-50 8.21/8.22



DN	INCH	MM	mm	r min. mm	BAR	BAR	BAR min.	kg/m	SR REF.
									SR REF.
6	1/4	6,4	13,4	51	400	800	1600	0,27	9050-004ST
10	3/8	9,5	17,4	64	350	700	1400	0,42	9050-006ST
12	1/2	12,7	22,2	150	350	700	1400	0,77	9050-008ST
16	5/8	15,9	28,2	125	350	700	1400	1,10	9050-010ST
20	3/4	19,0	32,2	140	350	700	1400	1,60	9050-012ST
25	1	25,4	38,7	190	350	700	1400	2,00	9050-016ST
32	1.1/4	31,8	49,8	210	350	700	1400	3,40	9050-020ST
40	1.1/2	38,1	57,3	475	350	700	1400	4,80	9050-024ST
50	2	50,8	71,1	545	350	700	1400	6,80	9050-032ST

¹⁾SUPERTUFF

De 9050 ST slang is identiek aan de 9050 slang echter voorzien van een super-slijtvaste „SUPERTUFF” buitenmantel. Vooral in de off-shore, reiniging- en de hei-industrie is de vraag naar slangen met een hoge slijtvaste buitenmantel en lange levensduur de laatste jaren flink toegenomen. Onze producent ALFAGOMMA, heeft na veel onderzoek diverse technieken ontwikkeld om door middel van een extra chemische behandeling de slijtvastheid van de buitenmantel enorm te verhogen.

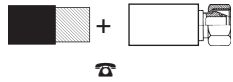
Waar de buitenmantels van standaard slangen problemen hebben met overmatige slijtage, kunnen slangen met een „SUPERTUFF” buitenmantel met succes toegepast worden.

Toepassingsgebieden zijn o.a.:

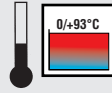
- hogedruk hydraulische apparatuur
- rioolreiniging
- waterjetting en waterblast
- hei- en boorinstallaties
- off-shore
- scheepsonderhoud

Productinfo: FLEXIT TUFF AlfaGamma.pdf

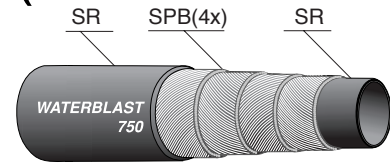
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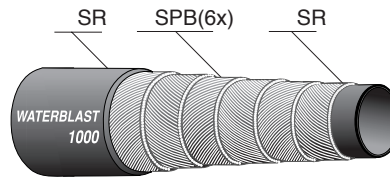
9107* **9108***
9110*



HD Reinigings slang
Tuyau de nettoyage HP
HP Cleaning hose
HD Reinigungsschlauch

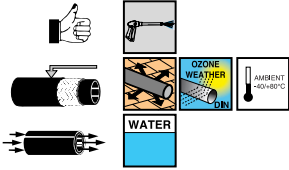


REF.
9107
9108
9110-008



REF.
9110-012

WATERBLAST

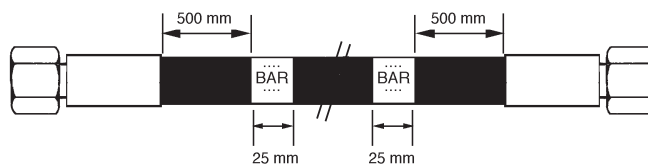
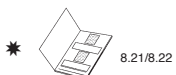


↔			↻								SR
DN	INCH	MM	mm		r min.	m	BAR ¹⁾	BAR mm	BAR +/-	g/m	REF.
20	3/4	19,0	32,2		280	40	700	1050	1750	1750	9107-12
25	1	25,4	38,7		320	40	700	1050	1750	1980	9107-16
10	3/8	9,5	22,2		150	40	840	1260	2100	800	9108-006
12	1/2	12,7	25,4		200	40	840	1260	2100	1110	9108-008
12	1/2	12,7	29,0		200	40	1000	1500	2500	1360	9110-008
20	3/4	19,0	34,4		270	40	1000	1500	2500	2300	9110-012

¹⁾ statisch/statique/static/statisch = : 2,5 (ISO 7751-1.6)

8

REF.	BAR	Ø DIN 2353	METR.	METR.	NPTF
9107-12	700	25S	M36x2		
9107-12	700				3/4NPTF
9107-16	700	30S	M42x2		
9108-006	840	12S	M20x1,5		1NPTF
9108-006	840	14S	M22x1,5		
9108-006	840	16S	M24x1,5		3/8NPTF
9108-008	800	14S	M22x1,5	M22x1,5	
9108-008	800	16S	M24x1,5		1/2NPTF
9108-008	800				
9110-008	1000	14S	M22x1,5	M22x1,5	
9110-008	1000	16S	M24x1,5		1/2NPTF
9110-008	1000				
9110-012	1000	25S	M36x2		
9110-012	1000				3/4NPTF



+



Algemene informatie

Assortiment:	Deze groep slangen is opgesplitst in twee delen: de 8000 serie en de 9000 serie. De 8000 t/m 8200 serie slangen zijn hogedrukslangen met maximaal 2 gevlochten polyester, aramide of staaldraadinlagen en gelimiteerde werkdrukken, alle voorkomende slangtypen zijn te monteren met slangkoppelingen uit eveneens de 8000 nummerserie. De 9000 serie slangen zijn hogedrukslangen met minimaal 4 spiraaldraadinlagen en hierdoor geschikt voor de extra hoge werkdrukken. Per slangtype wordt duidelijk weergegeven, welk type slangkoppeling uit de 9000 serie gebruikt dient te worden.	len slangkoppelingen kunnen in sommige gevallen zelfs sterk afwijken. Echter de aansluitingen zijn vanzelfsprekend altijd bindend.
Normen:	Alle bestaande normen voor hogedrukslangen zijn opgenomen in deze brochure en de relevante slangen worden volledig volgens deze specificaties geleverd. Type-certificaten en/of testrapporten zijn op aanvraag hiervoor eveneens leverbaar.	Assemblages: Indien een slangsamenvoeging door Hydroflex Hydraulics als eindproduct wordt afgeleverd, vallen deze producten onder de garantie van de standaard leveringsvoorwaarden. Wanneer de afnemer de slangsamenvoeging zelf assembleert ligt de eindverantwoording te allen tijde bij de afnemer zelf.
Materiaalsoorten:	Standaard worden alle slangkoppelingen en adapters in verzinkt geel gepassiveerd staal geleverd (REF. kolom Fe/Zn/YP), hiernaast zijn veel uitvoeringen ook standaard uit voorraad leverbaar in roestvaststaal (REF. kolom AISI 316 Ti). Alle roestvaststaal artikelen vallen in de 3000 referentie serie.	* Sterproducten: Artikelnummers met een * (ster) worden alleen als een geassembleerde samenstelling door Hydroflex Hydraulics uitgeleverd. Deze extra hogedrukslangen en de hiervoor bestemde slangkoppelingen worden nooit los verkocht.
Uitvoering:	De hogedruk slangkoppelingen voor spiraalslangen (9000 serie) worden uitsluitend uit één stuk materiaal geleverd, dit garandeert een hogere zekerheid bij extra hoge werkdrukken. Ook de slangkoppelingen serie 8000 worden grotendeels uit één stuk geleverd.	Drukken hogedrukslangen: Standaard worden alle werkdrukken als dynamische werkdruk opgegeven, tenzij anders vermeld. Statische werkdruk voor de slangtypen 8007/8010 en 8011; indien in een hydraulisch systeem absoluut geen dynamische werkdrukken optreden kan de (dynamische) werkdruk met factor 1,6 vermenigvuldigd worden als zijnde statische werkdruk. De testdruk van een hogedrukslang in hydraulische systemen is standaard factor 2 van de dynamische werkdruk. Voor hogedruk (water)reinigingsslangen is dit factor 1,5. Voor een maximale levensduur van de slangassemblage dient de slangkeuze gebaseerd te worden op een systeemdruk, inclusief de piek- en pulserende drukken. Deze zal dan lager moeten zijn dan de maximumwerkdruk van de slang.
Afmetingen:	Alle afmetingen van slangkoppelingen zoals; inbouwmaten, lengtematen etc. worden in millimeters weergegeven en zijn indicatief. Deze maten voor de roestvaststa-	

Information générales

Assortiment:	Ce groupe de flexible est divisé en deux parties: la série 8000 et la série 9000. La série 8000 jusqu'au 8200 sont des tuyaux à haute pression renforcés de une ou deux tresses métalliques, polyester ou aramide avec des pressions de travail limitées. Tous ces tuyaux sont à assembler avec les raccords de la série 8000. La série 9000 sont des tuyaux à très haute pression renforcés de quatre ou six spirales d'acier pour des pressions de travail plus élevées. Auprès de chaque type de tuyau est indiqué quel type de raccord de la série 9000 est à utiliser.	Pour les raccords en acier inoxydable ces dimensions peuvent varier fortement. Toutefois les raccordements ou filetages sont contraignantes.
Normes:	Toutes les normes existantes au sujet des tuyaux à haute pression sont reprises dans ce catalogue et ces tuyaux sont tous livrés en conformité avec ces spécifications. Des certificats et/ou rapports de tests peuvent être fournis sur demande.	Assemblages: Au cas où Hydroflex-Hydraulics fournit un tuyau flexible assemblé avec ses raccords, ce produit est livré d'après les conditions de livraison et de garantie standard. Lorsqu'un utilisateur assemble lui-même le flexible avec des raccords la responsabilité de montage reste chez l'utilisateur.
Matériaux:	Nos livraisons standard pour les raccords de flexibles et d'adaptateurs sont en acier zingué passivé jaune (REF. colonne Fe/Zn/YP). Beaucoup de ces raccords et adaptateurs sont aussi livrables en acier inoxydable (REF. colonne AISI 316 Ti). Tous les articles en acier inoxydable portent la référence 3000.	Produits*: Les produits avec une * (astérisque) sont uniquement livrés par Hydroflex-Hydraulics comme produits assemblés. Les tuyaux à très haute pression et les raccords correspondants ne sont jamais vendus ou livrés séparément.
Exécution:	Les raccords pour flexibles pour la série 9000 pour montage sur les tuyaux à renforcement de spirales d'acier sont exécutés uniquement en une seule pièce. Ceci garantit une plus grande sécurité dans l'utilisation de pressions très élevées. Aussi la plupart des raccords de la série 8000 sont livrés en une seule pièce.	Pressions: Toutes les pressions d'utilisation sont des pressions dynamiques sauf stipulations contraires. Les pressions d'utilisation statiques pour les tuyaux type 8007/8010 et 8011: au cas où dans un système hydraulique il n'y a pas de pression d'utilisation dynamique il est accepté de multiplier la pression indiquée avec le facteur 1,6 pour obtenir la pression d'utilisation statique. La pression d'épreuve d'un tuyau assemblé dans des systèmes hydrauliques est standard un facteur de 2 par rapport à la pression d'utilisation dynamique. Pour les tuyaux pour nettoyage à haute pression (eau) le facteur à appliquer Pour prolonger au maximum la durée de vie d'un flexible assemblé, nous vous conseillons de vous baser sur la pression de votre système, y compris pression de pointe et pression pulsative, celle-ci doit être inférieure à la pression de service du flexible.
Dimensions:	Toutes les dimensions pour raccords de flexibles tels que dimensions de montage, longueur etc. sont indiquées en millimètres et sont données à titre indicatif.	

General information

Product line:	This hose group has been divided in two parts: the 8000 series and 9000 series. The hoses from the 8000 up to 8200 series are high pressure hoses with maximum two wire braids, polyester braids, or aramide braids and limited working pressures, all mentioned hose types are to be assembled with the hose fittings from the 8000 series. The hoses from the 9000 series are high pressure hoses with minimum four spiral braids and therefore suitable for extra high working pressures. For each hose type is clearly indicated which hose fitting has to be used from the 9000 series.	in millimetres and are an indication. These dimensions for the stainless steel hose fittings can vary strongly, however the connections are naturally always exact.
Norms:	All existing norms for high pressure hoses are listed in this brochure and the relevant hoses will be supplied fully according to these specifications. Type certificates and/or test reports will be supplied upon request.	Assemblies: When Hydroflex Hydraulics supplies a hose assembly as a final product, those products will be under the warranty of the standard delivery conditions. If the buyer is assembling the hose by himself, the end responsibility is always for the buyer. * Star products: Order numbers with a * (star) will only be supplied by Hydroflex Hydraulics as a complete hose assembly. These very high pressure hoses and the relevant hose couplings will never be sold separately.
Kind of material:	Standard all hose hose fittings and adaptors will be supplied in yellow zinc plated (REF. column Fe/Zn/YP), many fitting executions are also from stock available in stainless steel (column AISI 316 Ti). All stainless steel products are listed in the 3000 series.	Hose pressures: Standard all working pressures are given as dynamic pressures, unless otherwise mentioned. Static working pressures for hose type 8007/8010 and 8011; if in a hydraulic system absolutely no dynamic pressures occurs, the (dynamic) working pressures can be multiplied with factor 1.6 as being the static working pressure. The test pressure of a high pressure hose is standard factor 2 of the dynamic working pressure. For high pressure (water) cleaning hoses is this factor 1.5. For maximum hose service life, hose selection should be based on a system pressure, including surges, that is less than the the hose maximum working pressure.
Execution:	The high pressure hose fittings for spiral hose (9000 series) will be supplied exclusively from one piece raw material, this guarantees a high safety at very high working pressures. Most of the hose fittings from the 8000 series will be supplied from one piece raw material.	
Dimensions:	All dimensions of the hose fittings like overall dimensions, linear dimensions and so on are given	

Allgemeine Information

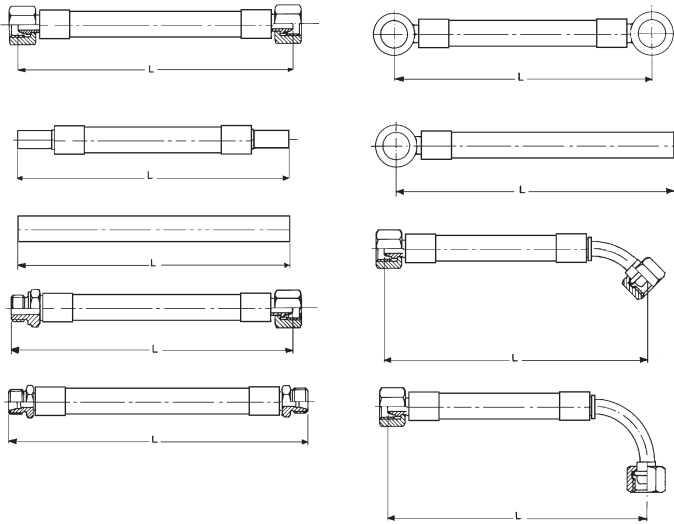
Assortiment:	Dieser Schlauchgruppe besteht aus zwei Teilen: der 8000 Serie und der 9000 Serie. Die Schläuche der 8000 bis 8200 Serie sind Hochdruckschläuche mit maximal zwei Stahldraht-, Polyester-, oder Aramide-geflechtem und vorgeschriebenen Betriebsdrücken. Alle vorkommenden Schlauchtypen können mit Schlauch-armaturen aus der 8000 Serie montiert werden. Die Schläuche der 9000 Serie sind Hochdruckschläuche mit minimal 4 Stahlschraubdrahtgeflechtem und sind deshalb für extrem hohe Betriebsdrücke geeignet. Pro Schlauchtyp wird eindeutig angegeben, welchen Typ Schlaucharmatur man von der 9000 Serie verwenden soll.	ben und sind indikativ. Die Abmasse für die rostfreien Schlauchnippel können bisweilen beträchtlich abweichen. Die Anschlussmasse sind selbstverständlich immer genau.
Norm:	Alle verfügbaren und aufgeführten Hochdruckschläuche dieses Kataloges entsprechen den Normen. Angeforderte Schläuche werden entsprechend dieser Spezifikationen geliefert. Typenzertifikate und/oder Prüfberichte können auf Anfrage zur Verfügung gestellt werden.	Schlauchleitungen: Wird eine Schlauchleitung von Hydroflex Hydraulics komplett als Endprodukt geliefert, erhalten Sie entsprechend unserer allgemeinen Lieferbedingungen für dieses Produkt Garantie. Erfolgt die Einbindung der Armaturen durch den Käufer selbst, entfällt der Garantieanspruch. Mit * gekennzeichnete Produkte: Artikel, die mit X (Stern) gekennzeichnet sind, werden nur als komplette Schlauchleitungen von Hydroflex Hydraulics geliefert. Diese Hochdruckschläuche und die für diese Schläuche bestimmten Schlaucharmaturen sind nicht einzeln erhältlich.
Materialsorten:	Standard werden alle Schlaucharmaturen und Adapter in der Ausführung Stahl gelb verzinkt geliefert (REF.Fe/Zn/YP). Ein Teil der Standardausführung Schlaucharmaturen und Adapter sind aus rostfreiem Stahl (REF. AISI 316 Ti) ab Lager lieferbar. Alle rostfreien Produkte sind der 3000 Serie zugehörig.	Hochdruck-schläuche Standardmässig werden alle Betriebsdrücke, wie z.B. der dynamische Betriebsdruck, angegeben. Zusätzliche Informationen auf Anfrage. Statischer Betriebsdruck für die Schlauchtypen: 8007/8010 und 8011: wenn in einem hydraulischen System absolut keine dynamischen Betriebsdrücke auftreten, kann der dynamische Betriebsdruck mit dem Faktor 1,6 multipliziert werden und als statischer Betriebsdruck eingesetzt werden. Der Prüfdruck eines Hochdruck-schlauches in hydraulischen Systemen ist das 2 fache des dynamischen Betriebsdruckes. Für Hochdruck (wasser) reinigungsschläuche ist es der Faktor 1,5. Für eine maximale Lebensdauer von Schlauchleitungen soll die Auswahl des Schlauches basiert werden auf den Systemdruck, inklusive Spitzen- und Impulsdruck. Diese Druck ist niedriger als der zulässiger Betriebsüberdruck des Schlauches.
Ausführung:	Hochdruckschlauchnippel für Spiralschläuche (9000 Serie) werden ausschliesslich geliefert aus einem Stück Material, um eine erhöhte Sicherheit zu garantieren. Auch die Schlauchnippel von den 8000 Serie werden meistens aus einem Stück Material geliefert.	
Abmessungen:	Alle Abmessungen vom Schlaucharmaturen wie: Einbaulänge, Längemasse usw. sind in Millimetern angege-	

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Lengte van slangassemblages
Longueur de flexibles assemblés

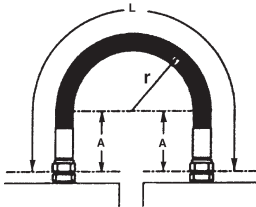
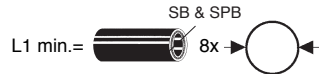
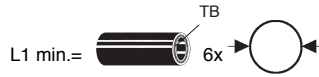
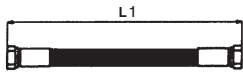
DIN 20 066

Length of hose assemblies
Schlauchleitungslänge

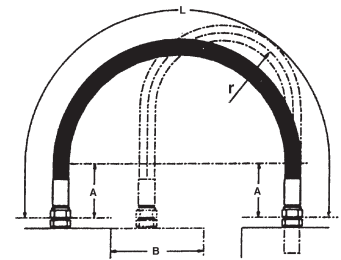
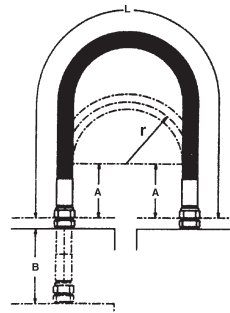


L mm*	↔ =< DN 25	DN 32-DN 50	DN 60-DN 100
= < 630	+7 / -3 mm	+12 / -4	+25 /-6 mm
631-1250	+12 / -4 mm	+20 / -6	
1251-2500	+20 / -6 mm	+25 / -6	
2501-8000	+1,5 / -0,5% van/de/of/von/od "L"		
8001->	+3 / -1% van/de/of/von/od "L"		

*Toleranties/Tolérance/Tolerance/Toleranz/Tolerancia Din 20 066



$L \text{ min.} = L1 \text{ min.} + 2A + 3,14 \times$



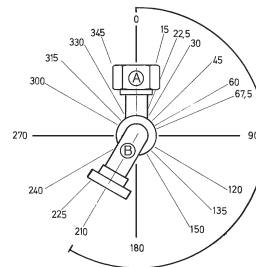
$L \text{ min.} = L1 \text{ min.} + 2A + 3,14 \times$ $+ B$

DN	1/4	5/16	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2	2
A mm	100	110	120	130	140	150	170	200	230	260

Instelhoek bij slangen met twee bochten
Détermination de l'angle

Adjust angle
Verdrehwinkel

Voorbeeld
Exemple
Example
Beispiel



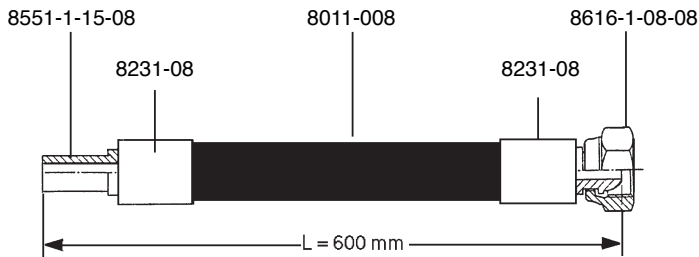
Meethoek van rechts naar links
Angle à mesurer de droite à gauche
Measure angle from right to left
Messwinkel von rechts nach links

Instelhoek in graden
Angle de montage en grades
Adjust angle in degrees
Einstellwinkel in Gradens

Bestelvoorbeeld
Manière de commander

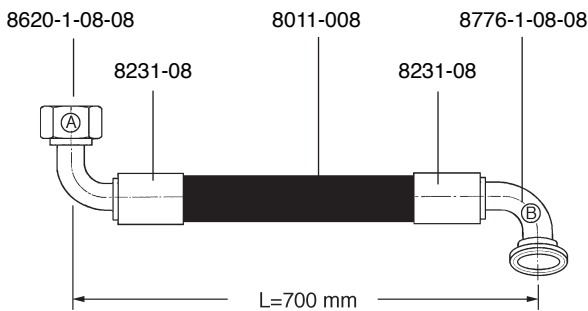


Way of ordering
Bestellbeispiel

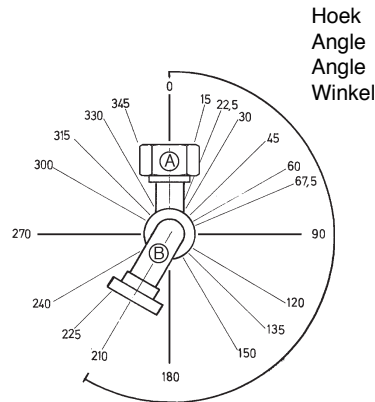


Slangassemblage
Tuyau assemblé
10x Hose assembly
Schlauchleitung

10 x 8011-008-600 mm
8551-1-15-08
8616-1-08-08
2x 8231-08

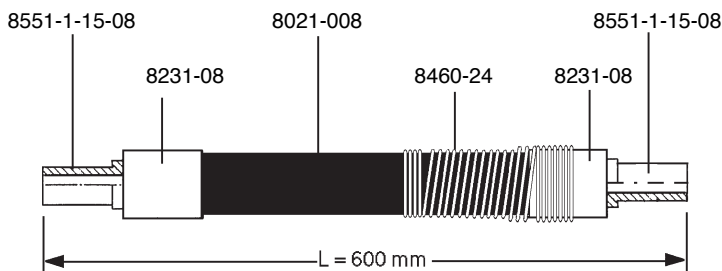


Slangassemblage met 2 bochten
Tuyau assemblé avec 2 coudes
5x Hose assembly with 2 elbows
Schlauchleitung mit 2 Rohrbogen



Hoek
Angle
Angle
Angle
Winkel

5 x 8011-008-700 mm
1x 8620-1-08-08
1x 8776-1-08-08
2x 8231-08
Hoek/Angle/Angle/
Ecke 210°



Slangassemblage
Tuyau assemblé
4x Hose assembly
Schlauchleitung

4 x 8021-008-600 mm
2x 8551-1-15-08
2x 8231-08
1x 8460-24

ATZ Aandrijftechniek B.V. (026-3112611)

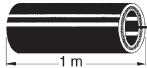
Overzicht slangtypes Aperçu général types de tuyaux



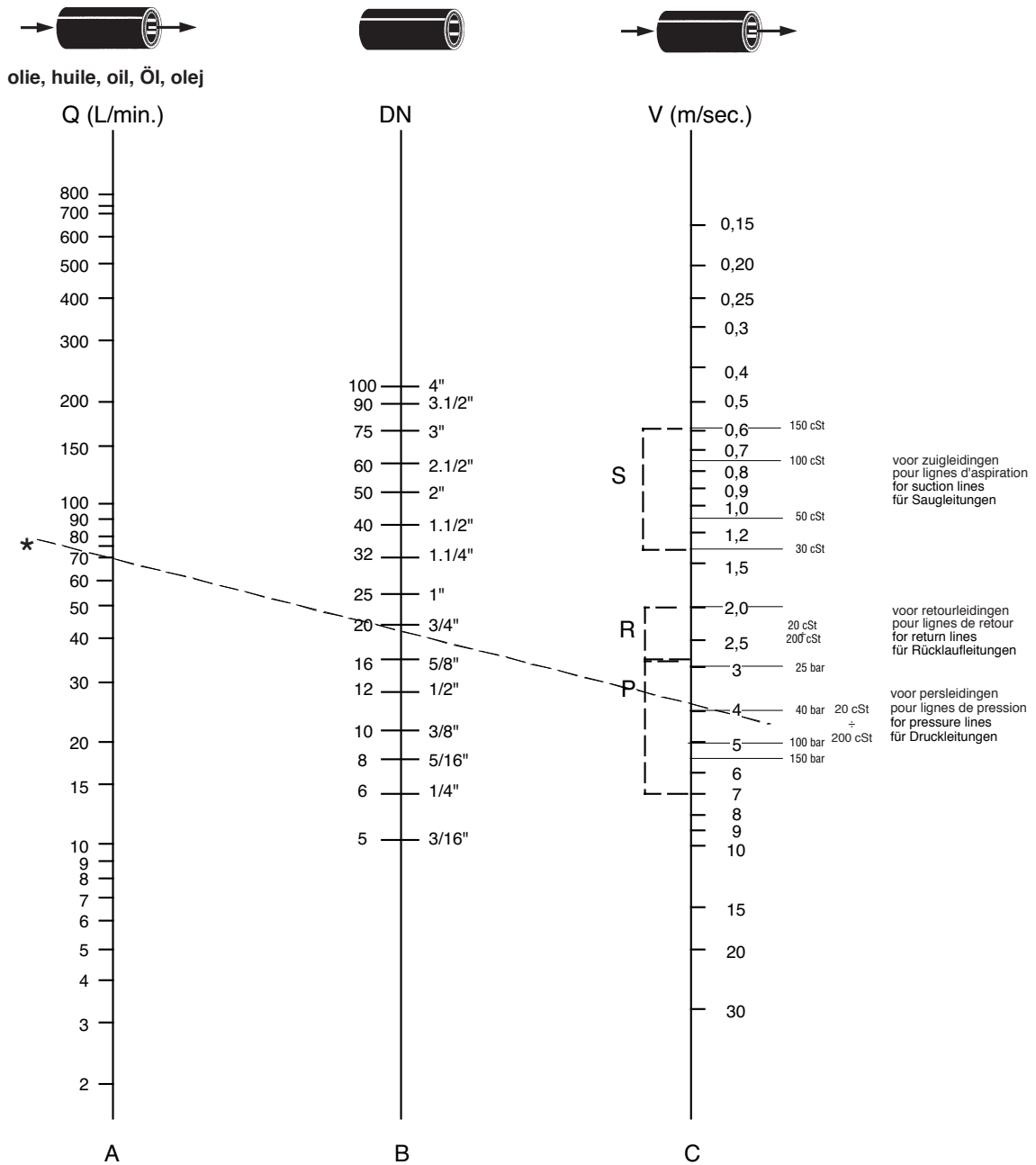
Summary of hose types Übersicht Schlauchtypen

↔	DN	5	6	8	10	12	16	20	25	32	40	50	
	INCH	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2	2	
REF.	max. BAR olie, huile, oil, Öl												
8007			145	130	110	93	80	70	55	45	40	33	8.3
8008	120												8.3
8010			225	215	180	160	130	105	88	63	50	40	8.4
8011	250		225	215	180	160	130	105	88				8.4
8020			400	350	330	275	250	215	165	125	90	80	8.6
8021	415		400	350	330	275	250	215	165				8.6
8028			400	375	350	310	280	240	185				8.7
8029						350	350	280	210	160			8.8
8032			210	210	210	210							8.9
8033			400	400	400	400							8.9
8090								21	17	14	10	7	8.10
8106-3			190	172	155								8.12
8106-6	207		190	172	155	138	103	86	69				8.12
8108-7			275	212	212	175							8.12
8108-8			275	212	212	175							8.12
8109-2	250		224	224	200								8.11
8109-6	207		190	172	155	138							8.13
8110-0			190	172	155								8.13
8110-7	345		345	300	276	241							8.13
8111-1			345		276	241							8.13
8176			240	200	175	150	135	100	80				8.14
8177			275	250	225	200	175	150	130	70	50		8.14
8208-3	275		275		212								8.15
8209-8	207		190		172								8.15
8210-4			345		276								8.16
9041			450		445	415	350	350	280	210	185	165	8.17
9045								420	380	325	290	250	8.17
9047								345	345	345	345	345	8.18
9048								420	420	420	420		8.18
9050			400		350	350	350	350	350	350	350	350	8.19
REF.	max. BAR water, l'eau, water, Wasser												
9107								700	700				8.20
9108					840	840							8.20
9110						1000		1000					8.20

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		Drukverlies (ΔP) Perte de charge (ΔP)				Medium: OLIE Médium: HUILE				Pressure drop (ΔP) Druckverlust (ΔP)				Medium: OIL Medium: ÖL		
↔	DN	6	8	10	12	16	20	25	32	40	50					
	INCH	1/4	5/16	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2	2					
	MM	6,4	7,9	9,5	12,7	15,9	19,0	25,4	31,8	38,1	50,8					
Q LPM		 olie, huile, oil, Öl, olej s.g.= 0,85., V = 20 cSt.														
1	0,08															
2	0,15	0,07														
4	0,29	0,13	0,06													
8	0,61	0,25	0,12													
10	0,90	0,34	0,14	0,05												
15	1,80	0,66	0,27	0,07	0,03											
20	3,10	1,13	0,46	0,15	0,04	0,02										
30		2,16	0,89	0,23	0,08	0,03										
40			1,50	0,38	0,14	0,05	0,01									
50				0,56	0,19	0,08	0,02									
60				0,76	0,26	0,11	0,03	0,01								
70				0,97	0,37	0,15	0,04	0,01								
80				1,25	0,46	0,20	0,05	0,02	0,007							
90				1,53	0,56	0,24	0,07	0,02	0,009							
100					0,65	0,27	0,07	0,03	0,01	0,003						
125					0,96	0,39	0,10	0,04	0,01	0,004						
150						0,57	0,15	0,05	0,02	0,005						
175						0,74	0,19	0,06	0,03	0,007						
200						0,92	0,23	0,08	0,03	0,009						
250							0,35	0,12	0,05	0,01						
300							0,48	0,16	0,07	0,02						
400							0,83	0,30	0,19	0,03						
500							1,16	0,43	0,16	0,04						
600								0,56	0,22	0,06						
700								0,73	0,30	0,08						
800								0,92	0,38	0,10						
900								1,14	0,47	0,12						
1000									0,55	0,14						
VOORBEELD		EXEMPLE				EXAMPLE				BEISPIEL						
Slang	: DN 06	Tuyau	: DN 06	Hose	: DN6	Schlauch	: DN 06									
Slanglengte	: 10 m	Longueur	: 10 m	Hose length	: 10m	Schlauchlänge	: 10 m									
Doorstroom (Q)	: 15 LPM	Débit (Q)	: 15 LPM	Flow (Q)	: 15 LPM	Durchfluß (Q)	: 15 LPM									
S.G. olie	: 0,85	Poids spéc. huile	: 0,85	Oil specific gravity	: 0,85	Spez.Gew. Öl	: 0,85									
Viscositeit olie	: 20 cSt.	Visc. huile	: 20 cSt.	Viscosity	: 20 cSt.	Öl Viskosität	: 20 cSt.									
Berekening, Calculation, Calculation, Berechnung: $\Delta P = 10 \times 1,8 \text{ bar} = 18 \text{ bar}$																

Nomogram voor de keuze van nominale diameter Nomograph for selection of nominal diameter
 Abaque pour choix diamètre nominal Nomogramm zur Bestimmung Nennweite



* Voor bepaling van slangdiameter moet de doorstroming Q (LPM) bekend zijn.
 - Verbind de gegeven doorstroomwaarde in de linker lijn A met een aanbevolen waarde op de rechter lijn C
 - Het snijpunt op lijn B geeft de aanbevolen slangdiameter aan.

Opmerking

Er is geen rekening gehouden met de weerstand die veroorzaakt wordt door bijvoorbeeld; haakse pijpkop-pelingen, snelkoppelingen, ventielen etc. en het effect van temperatuur op viscositeit en/of andere factoren.

* Afin de déterminer le diamètre intérieur du tuyau il faut connaître le coefficient Q (LPM).
 - Il faut connecter la ligne gauche Q (LPM) avec la ligne à droite V (m/sec.).
 - La ligne ainsi construite indique dans la colonne B le diamètre intérieur recommandé pour le tuyau.

Remarque

Il n'a pas été tenu compte avec la résistance constituée par - par exemple - des raccords coudés, raccords rapides, valves etc. ni de l'effet de la température sur la viscosité de l'huile ni d'autres facteurs.

* To determine the hose diameter, the flow in Q (LPM) must be known.
 - Connect the value of flow in the left line A with a recommended value in the right line C
 - The cutting point on line B shows the recommended hose diameter

Note

Not taken into account for the resistance are: elbow pipe couplings, quick disconnect couplings, valves etc. viscosity, the effect of temperature on viscosity and other factors.

* Für die Bestimmung vom Schlauchdurchmesser muß unbedingt der Durchfluss Q (LPM) bekannt sein.
 - Die geradlinige Verbindung vom bekannten Durchfluß in der linken Linie A mit den empfohlen Werten in der Linie C ergibt im Schnittpunkt B den empfohlen Schlauchdurchmesser.

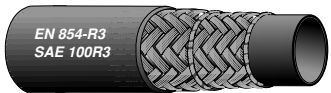
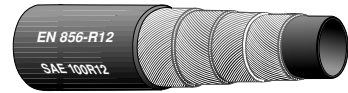
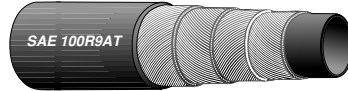
Bemerkung

Der Widerstand verursacht zum Beispiel durch; Rohrkrümmer, Schnellverschlusskuppelungen, Ventile usw. sowie Viskosität, Temperatureinflüsse auf die Viskosität und andere Faktoren sind nicht berücksichtigt.

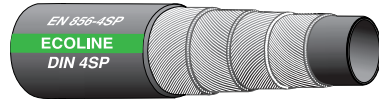
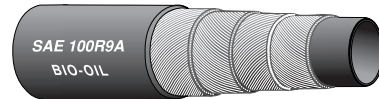
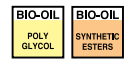
Slangen op aanvraag
Tuyaux sur demande



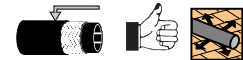
Hoses on request
Schläuche auf Anfrage



BIO-OIL



Polyurethane

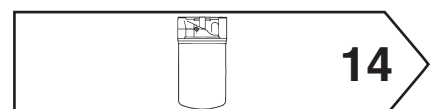
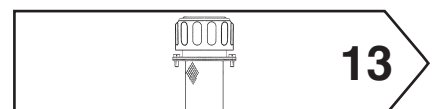
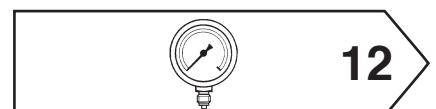
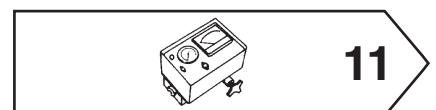
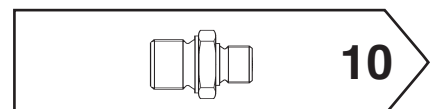
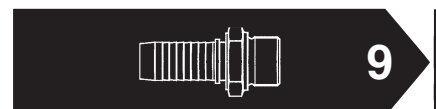
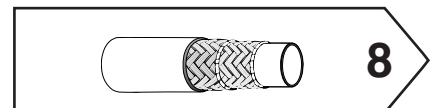
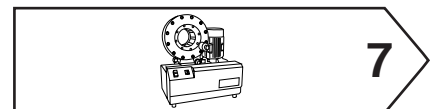
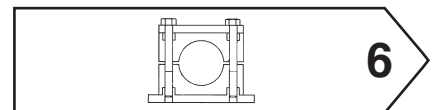
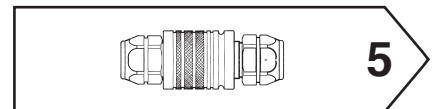
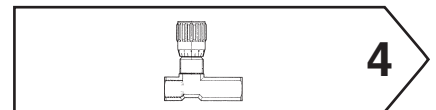
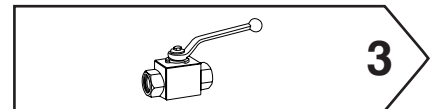
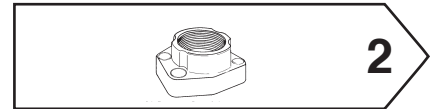
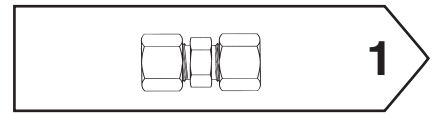
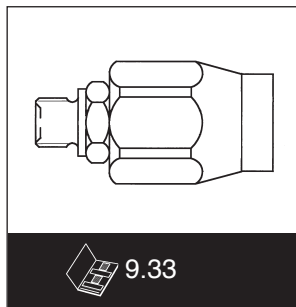
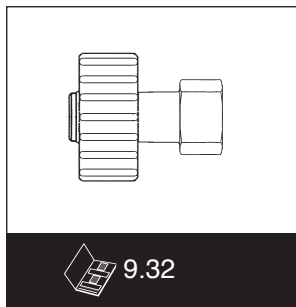
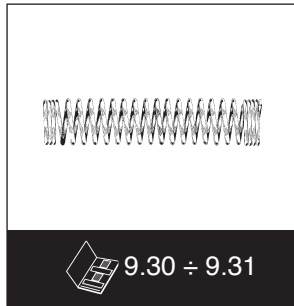
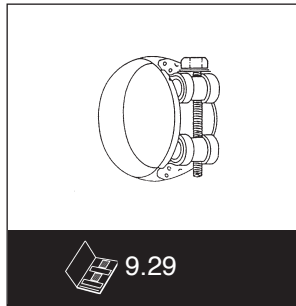
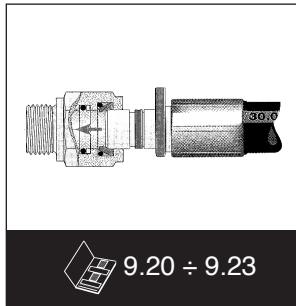
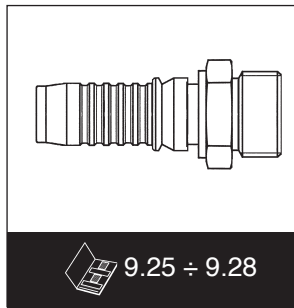
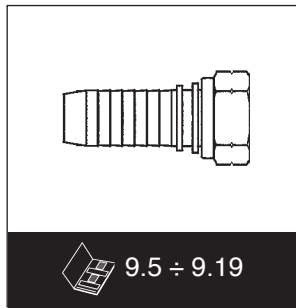
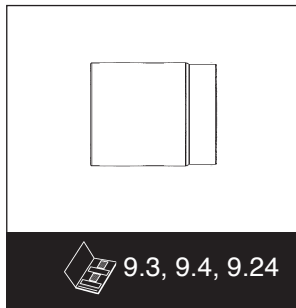


Overzicht slangnormen en goedkeuringen
Aperçu general types de normes

Summary types of hose norms and approvals
Übersicht Schlauchnormen

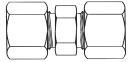
SAE J517	DIN	EN	DNV	GL	CHERCHAR	BV	MSHA	AS	LOBA	ISO	REF.	
	20 021 3TE	854								4079	8007	8.3
100R1A	20 022 1ST	853	X	X		X	X			1436	8010	8.4
100R1AT	20 022 1SN	853	X	X		X	X	X		1436	8011	8.4
100R17		857					X			11237	8018 (1/4"±1/2")	
100R2A	20 022 2ST	853	X	X	X	X	X		X	1436	8020	8.6
100R2AT	20 022 2SN	853	X	X		X	X			1436	8021	8.6
100R16		857			X		X			11237	8028	8.7
							X			1436	8029	8.8
100R4						X	X				8090	8.10
100R7		855								3949	8106-3	8.12
100R7		855								3949	8106-6	8.12
100R8		855								3949	8110-7	8.13
100R8		855								3949	8111-1	8.13
100R7		855								3949	8209-8	8.15
100R8		855								3949	8210-4	8.16
100R10	20 023 4SP	856	X	X	X	X	X			3862	9041	8.17
	20 023 4SH	856	X	X		X	X			3862	9045	8.17
100R13		856	X			X	X			3862	9047	8.18
100R15							X			3862	9048	8.18
	20 021 1TE	854								4079		
	20 021 2TE	854								4079		
100R3		854								4079		
100R5												
100R6		854								4079		
100R9												
R9R	20 023 4SP	856								3862		
100R12		856	X				X			3862		

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ATZ Aandrijftechniek B.V. (026-3112611)

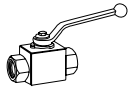
1



2



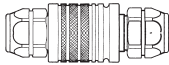
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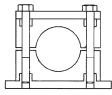
4



5



6



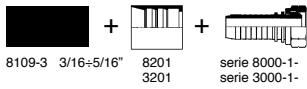
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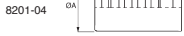
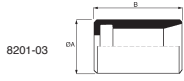
8



ATZ Aandrijftechniek B.V. (026-3112611)



8109-3 3/16+5/16" 8201 serie 8000-1- serie 3000-1-

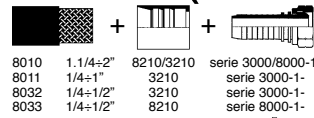


8201

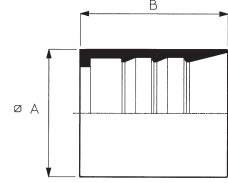
No Skive

Pershuls
Jupe de sertissage
Crimp socket
Pressfassung

DN		8201		Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	REF.	REF.
3/16	5	13	14	8201-03	
1/4	6	16	30	8201-04	
5/16	8	19	30	8201-05	



8010 1.1/4+2" 8210/3210 serie 3000/8000-1-
8011 1/4+1" 3210 serie 3000-1-
8032 1/4+1/2" 3210 serie 3000-1-
8033 1/4+1/2" 8210 serie 8000-1-



8210

3210

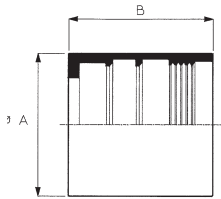
Skive

Pershuls 1ST
Jupe de sertissage 1ST
Crimp socket 1ST
Pressfassung 1ST

DN		8210		3210		Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	Ø A	B	REF.	REF.
1/4	6	20	31	19	30	8210-04	3210-04
5/16	8	21	31	21	31	8210-05	3210-05
3/8	10	24	31	24	32	8210-06	3210-06
1/2	12	28	35	29	34,5	8210-08	3210-08
5/8	16	31	36	32	37	8210-10	3210-10
3/4	19	35	42,5	36	42	8210-12	3210-12
1	25	42	50,5	43	50,5	8210-16	3210-16
1.1/4	32	52	59	50	59	8210-20	3210-20
1.1/2	38	58	63	58	63	8210-24	3210-24
2	50	71	70	71	78	8210-32	3210-32



8028 1/4+1" 3211 serie 3000-1-



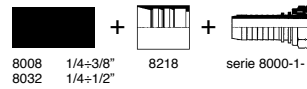
8211

3211

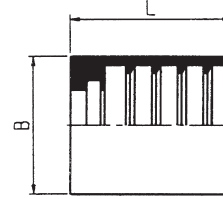
No Skive

RVS Pershuls 1SN
Jupe de sertissage INOX 1SN
Stainless steel crimp socket 1SN
Rostfreistahl Pressfassung 1SN

DN		8211		3211		Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	Ø A	B	REF.	REF.
1/4	6	21	30,5	21	30,5		3211-04
5/16	8	22	30,5	22	30,5		3211-05
3/8	10	24	33,5	24	33,5		3211-06
1/2	13	28	34,5	28	34,5	8211-08	3211-08
5/8	16	31	36,5	31	36,5		3211-10
3/4	19	35	42	35	42		3211-12
1	25	45	48	45	48		3211-16



8008 1/4+3/8" 8218 serie 8000-1-
8032 1/4+1/2"

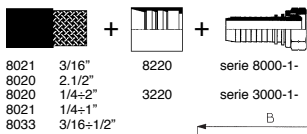


8218

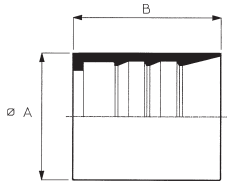
No Skive

Pershuls
Jupe de sertissage
Crimp socket
Pressfassung

DN		8218		Fe/Zn/YP
INCH	MM	Ø A	B	REF.
1/4	6	19	26,3	8218-04
5/16	8	21	26,3	8218-05
3/8	10	22	27,2	8218-06



8021 3/16" 8220 serie 8000-1-
8020 2.1/2" 3220 serie 3000-1-
8020 1/4+2"
8021 1/4+1"
8033 3/16+1/2"



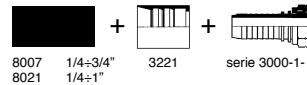
8220

3220

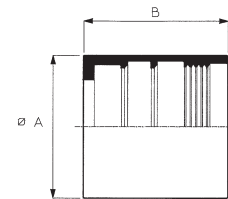
Skive

RVS Pershuls 2ST
Jupe de sertissage INOX 2ST
Stainless steel crimp socket 2ST
Pressfassung Rostfreistahl 2ST

DN		8220		3220		Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	Ø A	B	REF.	REF.
3/16	5			21	31	8220-03	3220-04
1/4	6			22	30		3220-05
5/16	8			24	30		3220-06
3/8	10			25	31		3220-08
1/2	13			30	34		3220-10
5/8	16			34	37		3220-12
3/4	19			38	42,5		3220-16
1	25			46	50,5		3220-20
1.1/4	32			55	59		3220-24
1.1/2	38			62	64		3220-32
2	50			76	70		
2.1/2	65					8220-40	



8007 1/4+3/4" 3221 serie 3000-1-
8021 1/4+1"



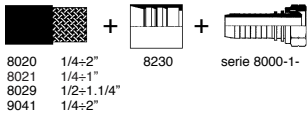
3221

No Skive

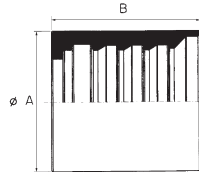
RVS Pershuls 2SN
Jupe de sertissage INOX 2SN
Stainless steel crimp socket 2SN
Pressfassung Rostfreistahl 2SN

DN		3221		Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	REF.	REF.
1/4	6	22	30,5		3221-04
5/16	8	22	30		3221-05
3/8	10	26	33,5		3221-06
1/2	13	29	34,5		3221-08
5/8	16	33	36,5		3221-10
3/4	19	37	42		3221-12
1	25	47	46		3221-16

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8020 1/4+2"
8021 1/4+1"
8029 1/2+1.1/4"
9041 1/4+2"

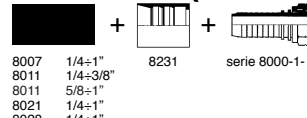


8230

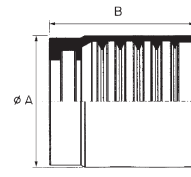
SKIVE

Pershuls 2ST / 4SP
Jupe de sertissage 2ST / 4SP
Crimp socket 2ST / 4SP
Pressfassung 2ST / 4SP

DN		8230		Fe/Zn/YP		AISI 316 Ti	
INCH	MM	Ø A	B	REF.	REF.	REF.	REF.
1/4	6	22	30	8230-04			
5/16	8	23	30	8230-05			
3/8	10	26	31	8230-06			
1/2	13	30	32	8230-08			
5/8	16	33	36	8230-10			
3/4	19	38	42,5	8230-12			
1	25	46	51	8230-16			
1.1/4	32	57	58	8230-20			
1.1/2	38	65	62	8230-24			
2	50	79	74	8230-32			



8007 1/4+1"
8011 1/4+3/8"
8011 5/8+1"
8021 1/4+1"
8028 1/4+1"
8090 3/4+2"



8231

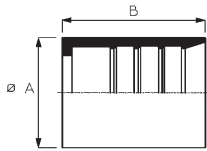
NO SKIVE

Pershuls 1SN/2SN
Jupe de sertissage 1SN/2SN
Crimp socket 1SN/2SN
Pressfassung 1SN/2SN

DN		8231		Fe/Zn/YP		AISI 316 Ti	
INCH	MM	Ø A	B	REF.	REF.	REF.	REF.
1/4	6	23	30	8231-04			
5/16	8	24	30	8231-05			
3/8	10	26	31	8231-06			
1/2	13	29	32	8231-08			
5/8	16	33	36	8231-10			
3/4	19	37	42,5	8231-12			
1	25	46	51	8231-16			
1.1/4	32	59	58	8231-20			
1.1/2	38	67	60,5	8231-24			
2	50	80	74	8231-32			



9041 1/4+2"



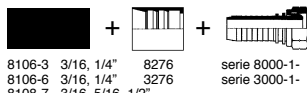
3241

SKIVE

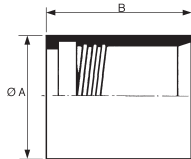
RVS Pershuls 4SP
Jupe de sertissage INOX 4SP
Stainless steel crimp socket 4SP
Pressfassung Rostfreistahl 4SP

DN		3241		Fe/Zn/YP		AISI 316 Ti	
INCH	MM	Ø A	B	REF.	REF.	REF.	REF.
1/4	6	22	34	3241-04			
3/8	10	26	34	3241-06			
1/2	13	29	42	3241-08			
5/8	16	32	42	3241-10			
3/4	19	38	51	3241-12			
1	25	41	62	3241-16			
1.1/4	32	58	70	3241-20			
1.1/2	38	66	76	3241-24			
2	50	80	80	3241-32			

DN				Fe/Zn/YP		AISI 316 Ti	
INCH	MM	Ø A	B	REF.	REF.	REF.	REF.



8106-3 3/16, 1/4" 8276 serie 8000-1-
8106-6 3/16, 1/4" 3276 serie 3000-1-

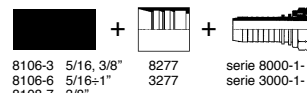


8276 3276

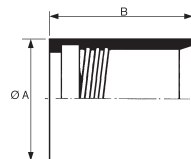
NO SKIVE

Pershuls
Jupe de sertissage
Crimp socket
Pressfassung

DN		8276		3276		Fe/Zn/YP		AISI 316 Ti	
INCH	MM	Ø A	B	Ø A	B	REF.	REF.	REF.	REF.
1/4	6	14	24	14	24	8276-04	3276-04		
5/16	8	17	26	17	24	8276-05	3276-05		
3/8	10	19	27	19	27	8276-06	3276-06		
1/2	13	23	27	23	27	8276-08	3276-08		
5/8	16	25	38	25	37,5	8276-10	3276-10		
3/4	19	31	42	31	42	8276-12	3276-12		
1	25	38	35	38	35	8276-16	3276-16		



8106-3 5/16, 3/8" 8277 serie 8000-1-
8106-6 5/16+1" 3277 serie 3000-1-



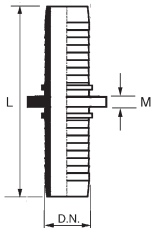
8277 3277

NO SKIVE

Pershuls
Jupe de sertissage
Crimp socket
Pressfassung

DN		8277		3277		Fe/Zn/YP		AISI 316 Ti	
INCH	MM	Ø A	B	Ø A	B	REF.	REF.	REF.	REF.
1/4	6	17	24	17	24	8277-04	3277-04		
5/16	8	19	26	19	26	8277-05	3277-05		
3/8	10	23	27	23	27	8277-06	3277-06		
1/2	13	24	27	24	26	8277-08	3277-08		
5/8	16	27	37	27	37	8277-10	3277-10		
3/4	19	33	42	33	42	8277-12	3277-12		
1	25	40	35	40	35	8277-16	3277-16		

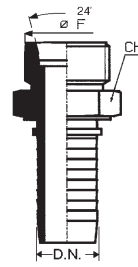
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8500



**Verbindingskoppeling
Union double
Connecting coupling
Verbindungsniipel**



8503 3503

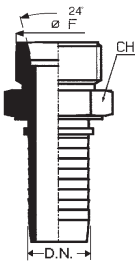
CEL 24° DIN 3861-W

24° DIN 3861-W → ← 24° DIN 3861-A/B
24° DIN 3865 OR-seal
24° DIN 3868 Multiseal

**Buitendraad metrisch
Filetage mâle métrique
Male thread metric
Aussengewinde metrisch**

DN		L	M	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
1/4		80	15	8500-1-04	
5/16		80	15	8500-1-05	
3/8		84	15	8500-1-06	
1/2		110	17	8500-1-08	
5/8		115	11	8500-1-10	
3/4		130	9	8500-1-12	
1		140	14	8500-1-16	
1.1/4		160	26	8500-1-20	
1.1/2				8500-1-24	
2				8500-1-32	

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	06L	M12x1,5	14	8503-1-06-03	
1/4	6	06L	M12x1,5	12	8503-1-06-04	
1/4	6	08L	M14x1,5	17	8503-1-08-04	3503-1-08-04
1/4	6	10L	M16x1,5	17	8503-1-10-04	
1/4	6	12L	M18x1,5	19	8503-1-12-04	
5/16	8	10L	M16x1,5	17	8503-1-10-05	3503-1-10-05
5/16	8	12L	M18x1,5	19	8503-1-12-05	
3/8	10	10L	M16x1,5	17	8503-1-10-06	
3/8	10	12L	M18x1,5	19	8503-1-12-06	3503-1-12-06
3/8	10	15L	M22x1,5	24	8503-1-15-06	
1/2	12	15L	M22x1,5	24	8503-1-15-08	3503-1-15-08
1/2	12	18L	M26x1,5	27	8503-1-18-08	
5/8	16	15L	M22x1,5	24		3503-1-15-10
5/8	16	18L	M26x1,5	27	8503-1-18-10	3503-1-18-10
5/8	16	22L	M30x2	32	8503-1-22-10	
3/4	20	18L	M26x1,5	27	8503-1-18-12	
3/4	20	22L	M30x2	32	8503-1-22-12	3503-1-22-12
1	25	28L	M36x2	41	8503-1-28-16	3503-1-28-16
1.1/4	32	35L	M45x2	46	8503-1-35-20	3503-1-35-20
1.1/2	40	42L	M52x2	55	8503-1-42-24	3503-1-42-24

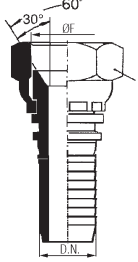


8504 3504

CES 24° DIN 3861-W

24° DIN 3861-W → ← 24° DIN 3861-A/B
24° DIN 3865 OR-seal
24° DIN 3868 Multiseal

**Buitendraad metrisch
Filetage mâle métrique
Male thread metric
Aussengewinde metrisch**



8514

KOMATSU

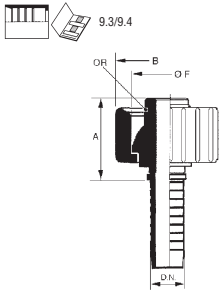
30°

**Wartel negatief, metrisch
Tournant cône intérieur, métrique
Swivel negative, metric
Überwurfmutter negativ, metrisch**

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	08S	M16x1,5	17	8504-1-08-03	
1/4	6	08S	M16x1,5	17	8504-1-08-04	
1/4	6	10S	M18x1,5	19	8504-1-10-04	3504-1-10-04
5/16	8	10S	M18x1,5	19	8504-1-10-05	
5/16	8	12S	M20x1,5	22	8504-1-12-05	3504-1-12-05
3/8	10	10S	M18x1,5	19	8504-1-10-06	
3/8	10	12S	M20x1,5	22	8504-1-12-06	3504-1-12-06
3/8	10	14S	M22x1,5	24	8504-1-14-06	3504-1-14-06
1/2	12	14S	M22x1,5	24	8504-1-14-08	3504-1-14-08
1/2	12	16S	M24x1,5	27	8504-1-16-08	3504-1-16-08
5/8	16	16S	M24x1,5	27	3504-1-16-10	
5/8	16	20S	M30x2	32	8504-1-20-10	3504-1-20-10
3/4	20	20S	M30x2	32	8504-1-20-12	
3/4	20	25S	M36x2	36	8504-1-25-12	3504-1-25-12
1	25	25S	M36x2	36	8504-1-25-16	
1	25	30S	M42x2	46	8504-1-30-16	3504-1-30-16
1.1/4	32	38S	M52x2	55	8504-1-38-20	3504-1-38-20

DN		Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
1/4	6	M14x1,5	19	8514-1-06-04	
1/4	6	M16x1,5	19	8514-1-06-04/16	
3/8	10	M16x1,5	19	8514-1-10-06/16	
3/8	10	M18x1,5	22	8514-1-10-06	
1/2	12	M22x1,5	27	8514-1-13-08	
1/2	12	M24x1,5	30	8514-1-13-08/24	
5/8	16	M24x1,5	30	8514-1-16-10	
5/8	16	M28x1,5	36	8514-1-16-10/28	
3/4	20	M30x1,5	36	8514-1-20-12	
1	25	M33x1,5	41	8514-1-25-16	
1.1/4	32	M36x1,5	46	8514-1-32-20	
1.1/2	40	M42x1,5	50	8514-1-38-24	

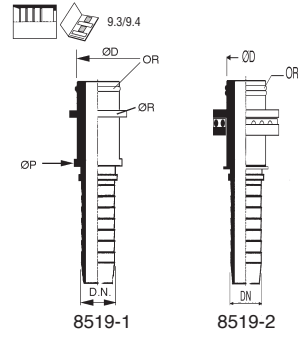
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8518

O-ring

**Wartel metrisch
Tournant métrique
Swivel metric
Überwurfmutter metrisch**



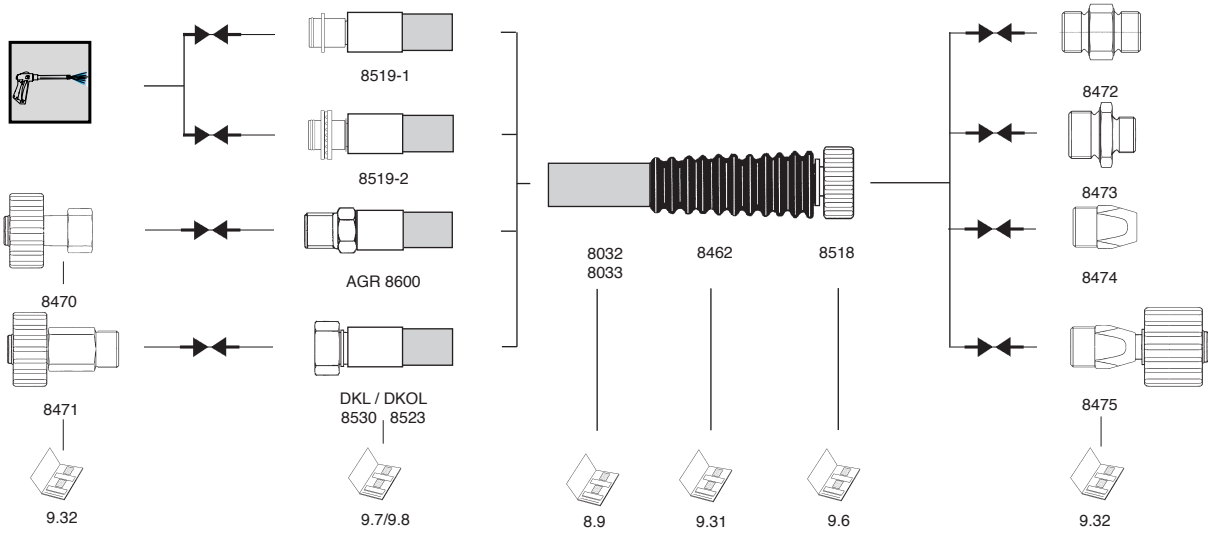
8519

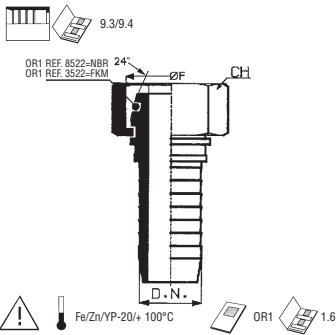
O-ring

**Pistool insteeknippel
Raccord pour lance
Gun fitting
Pistolenarmatur**

DN		B	Ø F METR.	A	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	35	M22x1,5	27,5	8518-1-22-04	
5/16	8	35	M22x1,5	27,5	8518-1-22-05	
3/8	10	35	M22x1,5	27,5	8518-1-22-06	

DN		Ø DIN 2353	Ø P	Ø R	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	10	11,8	15,5	8519-1-10-04	
5/16	8	10	11,8	15,5	8519-1-10-05	
3/8	10	11			8519-2-11-05	



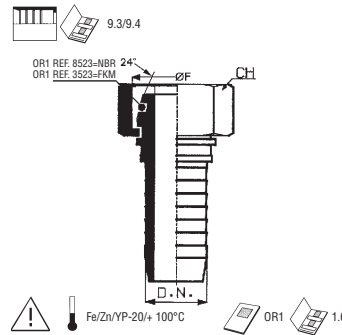


8522 3522

DKOS

24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

**Wartel metrisch
Tournant métrique
Swivel metric
Überwurfmutter metrisch**



8523 3523

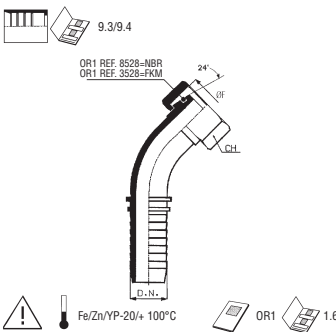
DKOL

24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

**Wartel metrisch
Tournant métrique
Swivel metric
Überwurfmutter metrisch**

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	08S	M16x1,5	19	8522-1-08-03	
1/4	6	06S	M14x1,5	17	8522-1-06-04	
1/4	6	08S	M16x1,5	19	8522-1-08-04	3522-1-08-04
1/4	6	10S	M18x1,5	22	8522-1-10-04	3522-1-10-04
5/16	8	10S	M18x1,5	22		3522-1-10-05
5/16	8	12S	M20x1,5	24	8522-1-12-05	3522-1-12-05
3/8	10	12S	M20x1,5	24	8522-1-12-06	3522-1-12-06
3/8	10	14S	M22x1,5	27	8522-1-14-06	3522-1-14-06
3/8	10	16S	M24x1,5	30		3522-1-16-06
1/2	10	12S	M20x1,5	24		3522-1-12-08
1/2	12	14S	M22x1,5	27		3522-1-14-08
1/2	12	16S	M24x1,5	30	8522-1-16-08	3522-1-16-08
5/8	16	20S	M30x2	36	8522-1-20-10	3522-1-20-10
3/4	20	20S	M30x2	36	8522-1-20-12	3522-1-20-12
3/4	20	25S	M36x2	46	8522-1-25-12	3522-1-25-12
1	25	25S	M36x2	46	8522-1-25-16	
1	25	30S	M42x2	50	8522-1-30-16	3522-1-30-16
1.1/4	32	38S	M52x2	60	8522-1-38-20	3522-1-38-20
1.1/2	40	38S	M52x2	60		3522-1-38-24

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	06L	M12x1,5	14	8523-1-06-03	
1/4	6	06L	M12x1,5	14	8523-1-06-04	3523-1-06-04
1/4	6	08L	M14x1,5	17	8523-1-08-04	3523-1-08-04
1/4	6	10L	M16x1,5	19	8523-1-10-04	3523-1-10-04
1/4	6	12L	M18x1,5	22	8523-1-12-04	
5/16	8	10L	M16x1,5	19	8523-1-10-05	3523-1-10-05
5/16	8	12L	M18x1,5	22	8523-1-12-05	3523-1-12-05
3/8	10	10L	M16x1,5	19	8523-1-10-06	3523-1-10-06
3/8	10	12L	M18x1,5	22	8523-1-12-06	3523-1-12-06
3/8	10	15L	M22x1,5	27	8523-1-15-06	
1/2	12	15L	M22x1,5	27	8523-1-15-08	3523-1-15-08
1/2	12	18L	M26x1,5	32	8523-1-18-08	
5/8	16	18L	M26x1,5	32	8523-1-18-10	3523-1-18-10
5/8	16	22L	M30x2	36		3523-1-22-10
3/4	20	22L	M30x2	36	8523-1-22-12	3523-1-22-12
3/4	20	28L	M36x2	41		3523-1-28-12
1	25	22L	M30x2	36		3523-1-22-16
1	25	28L	M36x2	41	8523-1-28-16	3523-1-28-16
1	25	35L	M45x2	50		3523-1-35-16
1.1/4	32	35L	M45x2	50	8523-1-35-20	3523-1-35-20
1.1/2	40	42L	M52x2	60	8523-1-42-24	3523-1-42-24

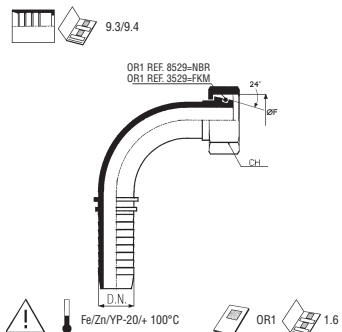


8528 3528

DKOS-45

24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

**Wartel metrisch 45°
Tournant métrique 45°
Swivel metric 45°
Überwurfmutter metrisch 45°**



8529 3529

DKOS-90

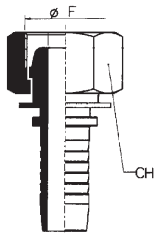
24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

**Wartel metrisch 90°
Tournant métrique 90°
Swivel metric 90°
Überwurfmutter metrisch 90°**

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	08S	M16x1,5	19	8528-1-08-03	
1/4	6	08S	M16x1,5	19	8528-1-08-04	3528-1-08-04
1/4	6	10S	M18x1,5	22	8528-1-10-04	3528-1-10-04
5/16	8	10S	M18x1,5	22		3528-1-10-05
5/16	8	12S	M20x1,5	24	8528-1-12-05	3528-1-12-05
3/8	10	10S	M18x1,5	22		3528-1-10-06
3/8	10	12S	M20x1,5	24	8528-1-12-06	3528-1-12-06
3/8	10	14S	M22x1,5	27	8528-1-14-06	3528-1-14-06
3/8	10	16S	M24x1,5	30		3528-1-16-06
1/2	12	12S	M20x1,5	24		3528-1-12-08
1/2	12	14S	M22x1,5	27		3528-1-14-08
1/2	12	16S	M24x1,5	30	8528-1-16-08	3528-1-16-08
5/8	16	20S	M30x2	36	8528-1-20-10	3528-1-20-10
3/4	20	20S	M30x2	36	8528-1-20-12	
3/4	20	25S	M36x2	46	8528-1-25-12	3528-1-25-12
1	25	25S	M36x2	46	8528-1-25-16	
1	25	30S	M42x2	50	8528-1-30-16	3528-1-30-16
1.1/4	32	38S	M52x2	60	8528-1-38-20	3528-1-38-20
1.1/2	40	38S	M52x2	60		3528-1-38-24

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	08S	M16x1,5	19	8529-1-08-03	
1/4	6	06S	M14x1,5	17	8529-1-06-04	3529-1-06-04
1/4	6	08S	M16x1,5	19	8529-1-08-04	3529-1-08-04
1/4	6	10S	M18x1,5	22	8529-1-10-04	3529-1-10-04
5/16	8	10S	M18x1,5	22	8529-1-10-05	3529-1-10-05
5/16	8	12S	M20x1,5	24	8529-1-12-05	3529-1-12-05
3/8	10	10S	M18x1,5	22	8529-1-10-06	
3/8	10	12S	M20x1,5	24	8529-1-12-06	3529-1-12-06
3/8	10	14S	M22x1,5	27	8529-1-14-06	3529-1-14-06
3/8	10	16S	M24x1,5	30		3529-1-16-06
1/2	12	12S	M20x1,5	24		3529-1-12-08
1/2	12	14S	M22x1,5	27	8529-1-14-08	3529-1-14-08
1/2	12	16S	M24x1,5	30	8529-1-16-08	3529-1-16-08
5/8	16	20S	M30x2	36	8529-1-20-10	3529-1-20-10
3/4	20	20S	M30x2	36	8529-1-20-12	
3/4	20	25S	M36x2	46	8529-1-25-12	3529-1-25-12
1	25	25S	M36x2	46	8529-1-25-16	
1	25	30S	M42x2	50	8529-1-30-16	3529-1-30-16
1.1/4	32	38S	M52x2	60	8529-1-38-20	3529-1-38-20
1.1/2	40	38S	M52x2	60		3529-1-38-24

ATZ Aandrijftechniek B.V. (026-3112611)

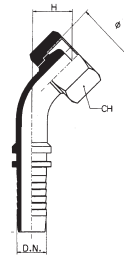


8530

DKM/L-MULTISEAL

DIN 3868 → ← 60° DIN 3868
24° DIN 2353

**Wartel metrisch
Tournant métrique
Swivel metric
Überwurfmutter metrisch**



8531

DKM/L-45 MULTISEAL

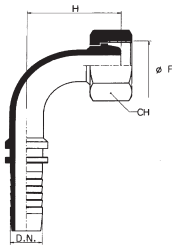
DIN 3868 → ← 60° DIN 3868
24° DIN 2353

**Wartel metrisch 45°
Tournant métrique 45°
Swivel metric 45°
Überwurfmutter metrisch 45°**

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	08L	M14x1,5	17	8530-1-08-04	
1/4	6	10L	M16x1,5	19	8530-1-10-04	
5/16	8	10L	M16x1,5	19	8530-1-10-05	
5/16	8	12L	M18x1,5	22	8530-1-12-05	
3/8	10	10L	M16x1,5	19	8530-1-10-06	
3/8	10	12L	M18x1,5	22	8530-1-12-06	
3/8	10	15L	M22x1,5	27	8530-1-15-06	
1/2	12	15L	M22x1,5	27	8530-1-15-08	
5/8	16	18L	M26x1,5	32	8530-1-18-10	
3/4	20	18L	M26x1,5	32	8530-1-18-12	

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	08L	M14x1,5	17	8531-1-08-04	
1/4	6	10L	M16x1,5	19	8531-1-10-04	
5/16	8	10L	M16x1,5	19	8531-1-10-05	
5/16	8	12L	M18x1,5	22	8531-1-12-05	
3/8	10	10L	M16x1,5	19	8531-1-10-06	
3/8	10	12L	M18x1,5	22	8531-1-12-06	
3/8	10	15L	M22x1,5	27	8531-1-15-06	
1/2	12	15L	M22x1,5	27	8531-1-15-08	
5/8	16	18L	M26x1,5	32	8531-1-18-10	
3/4	20	18L	M26x1,5	32	8531-1-18-12	

9



8532

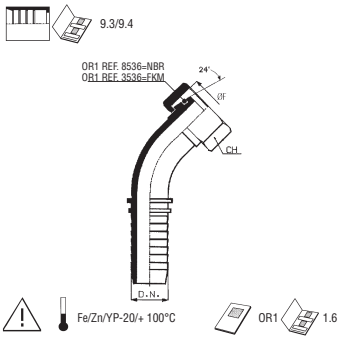
DKM/L-90 MULTISEAL

DIN 3868 → ← 60° DIN 3863
24° DIN 2353

**Wartel metrisch 90°
Tournant métrique 90°
Swivel metric 90°
Überwurfmutter metrisch 90°**

DN		Ø DIN 2353	Ø F METR.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	08L	M14x1,5	17	8532-1-08-04	
1/4	6	10L	M16x1,5	19	8532-1-10-04	
5/16	8	10L	M16x1,5	19	8532-1-10-05	
5/16	8	12L	M18x1,5	22	8532-1-12-05	
3/8	10	10L	M16x1,5	19	8532-1-10-06	
3/8	10	12L	M18x1,5	22	8532-1-12-06	
3/8	10	15L	M22x1,5	27	8532-1-15-06	
1/2	12	15L	M22x1,5	27	8532-1-15-08	
5/8	16	18L	M26x1,5	32	8532-1-18-10	
3/4	20	18L	M26x1,5	32	8532-1-18-12	

ATZ Aandrijftechniek B.V. (026-3112611)

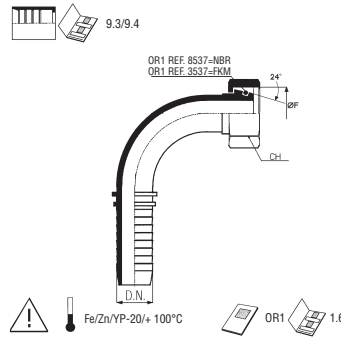


8536
3536

DKOL-45

24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

Wartel metrisch 45°
Tournant métrique 45°
Swivel metric 45°
Überwurfmutter metrisch 45°



8537
3537

DKOL-90

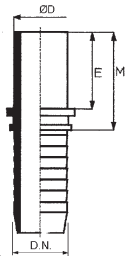
24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

Wartel metrisch 90°
Tournant métrique 90°
Swivel metric 90°
Überwurfmutter metrisch 90°

DN		Ø	Ø F	CH	Fe/Zn/YP	AISI 316 Ti
INCH	MM	DIN 2353	METR.		REF.	REF.
3/16	5	06L	M12x1,5	14	8536-1-06-03	
1/4	6	08L	M14x1,5	17	8536-1-08-04	3536-1-08-04
1/4	6	10L	M16x1,5	19	8536-1-10-04	3536-1-10-04
5/16	8	10L	M16x1,5	19	8536-1-10-05	3536-1-10-05
5/16	8	12L	M18x1,5	22	8536-1-12-05	3536-1-12-05
3/8	10	10L	M16x1,5	19	8536-1-10-06	3536-1-10-06
3/8	10	12L	M18x1,5	22	8536-1-12-06	3536-1-12-06
1/2	12	15L	M22x1,5	27	8536-1-15-08	3536-1-15-08
5/8	16	18L	M26x1,5	32	8536-1-18-10	3536-1-18-10
5/8	16	22L	M30x2	36		3536-1-22-10
3/4	20	22L	M30x2	36	8536-1-22-12	3536-1-22-12
3/4	20	28L	M36x2	41		3536-1-28-12
1	25	22L	M30x2	36		3536-1-22-16
1	25	28L	M36x2	41	8536-1-28-16	3536-1-28-16
1.1/4	32	35L	M45x2	50	8536-1-35-20	3536-1-35-20
1.1/2	40	42L	M52x2	60	8536-1-42-24	3536-1-42-24

DN		Ø	Ø F	CH	Fe/Zn/YP	AISI 316 Ti
INCH	MM	DIN 2353	METR.		REF.	REF.
3/16	5	06L	M12x1,5	14	8537-1-06-03	
1/4	6	06L	M12x1,5	14	8537-1-06-04	3537-1-06-04
1/4	6	08L	M14x1,5	17	8537-1-08-04	3537-1-08-04
1/4	6	10L	M16x1,5	19	8537-1-10-04	3537-1-10-04
1/4	6	12L	M18x1,5	22	8537-1-12-04	
5/16	8	10L	M16x1,5	19	8537-1-10-05	3537-1-10-05
5/16	8	12L	M18x1,5	22	8537-1-12-05	3537-1-12-05
3/8	10	10L	M16x1,5	19	8537-1-10-06	3537-1-10-06
3/8	10	12L	M18x1,5	22	8537-1-12-06	3537-1-12-06
1/2	12	15L	M22x1,5	27	8537-1-15-08	3537-1-15-08
5/8	16	18L	M26x1,5	32	8537-1-18-10	3537-1-18-10
5/8	16	22L	M30x2	36	8537-1-22-10	3537-1-22-10
3/4	20	22L	M30x2	36	8537-1-22-12	3537-1-22-12
3/4	20	28L	M36x2	41		3537-1-28-12
1	25	22L	M30x2	36		3537-1-22-16
1	25	28L	M36x2	41	8537-1-28-16	3537-1-28-16
1.1/4	32	35L	M45x2	50	8537-1-35-20	3537-1-35-20
1.1/2	40	42L	M52x2	60	8537-1-42-24	3537-1-42-24

ATZ Aandrijftechniek B.V. (026-3112611)

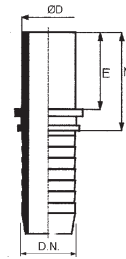


8551 3551

BEL
ØD → ← DIN 2353

Rechte standpijp
Lisse nu
Straight stand pipe
Rohrstutzen

DN		Ø DIN 2353	M	E	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	06L		23	8551-1-06-03	
1/4	6	06L	29,5	23	8551-1-06-04	3551-1-06-04
1/4	6	08L	30,5	24	8551-1-08-04	3551-1-08-04
5/16	8	06L	29,5	23		3551-1-06-05
5/16	8	08L	31	25		3551-1-08-05
5/16	8	10L	31,5	25	8551-1-10-05	3551-1-10-05
3/8	10	10L	32,5	25	8551-1-10-06	3551-1-10-06
3/8	10	12L	33	25	8551-1-12-06	3551-1-12-06
3/8	10	15L	31,5	25	8551-1-15-06	
1/2	12	15L	35,5	25	8551-1-15-08	3551-1-15-08
1/2	12	18L	35,5	27	8551-1-18-08	
5/8	16	18L	35,5	27	8551-1-18-10	3551-1-18-10
5/8	16	22L	37,5	29	8551-1-22-10	
3/4	20	22L	40	29	8551-1-22-12	3551-1-22-12
1	25	28L	40	30	8551-1-28-16	3551-1-28-16
1.1/4	32	35L	48,5	36	8551-1-35-20	3551-1-35-20
1.1/2	40	42L	52,5	40	8551-1-42-24	3551-1-42-24



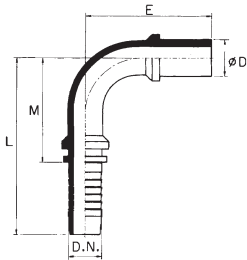
8552 3552

BES
ØD → ← DIN 2353

Rechte standpijp
Lisse nu
Straight stand pipe
Rohrstutzen

DN		Ø DIN 2353	M	E	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	08S		24	8552-1-08-03	
1/4	6	08S	30,5	24	8552-1-08-04	
1/4	6	10S	32,5	25	8552-1-10-04	3552-1-10-04
1/4	6	12S	31,5	25	8552-1-12-04	
5/16	8	12S	32	25	8552-1-12-05	3552-1-12-05
3/8	10	14S	36,5	29	8552-1-14-06	3552-1-14-06
1/2	12	14S	37,5	29	8552-1-14-08	
1/2	12	16S	40,5	32	8552-1-16-08	3552-1-16-08
5/8	16	20S	44,5	36	8552-1-20-10	3552-1-20-10
3/4	20	20S	47	36	8552-1-20-12	3552-1-20-12
3/4	20	25S	51	40	8552-1-25-12	3552-1-25-12
1	25	25S	50	40	8552-1-25-16	
1	25	30S	55	45	8552-1-30-16	3552-1-30-16
1.1/4	32	38S	62,5	50	8552-1-38-20	3552-1-38-20

9

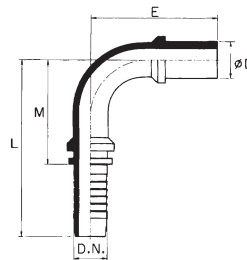


8556

BEL-90°
ØD → ← DIN 2353

Haakse standpijp
Lisse nu coudé
Elbow stand pipe
Winkelrohrstutzen

DN		Ø DIN 2353	M	E	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	06L		42,5	8556-1-06-03	
1/4	6	06L	28,5	42,5	8556-1-06-04	
1/4	6	08L	28,5	43,5	8556-1-08-04	
5/16	8	10L	30,5	44	8556-1-10-05	
3/8	10	10L	32	53,5	8556-1-10-06	
3/8	10	12L	32,5	52,5	8556-1-12-06	
1/2	12	12L	43	55	8556-1-12-08	
1/2	12	15L	43	55	8556-1-15-08	
1/2	12	18L	43	58,5	8556-1-18-08	
5/8	16	18L	49	70	8556-1-18-10	
5/8	16	22L	49	74	8556-1-22-10	
3/4	20	22L	61	73,5	8556-1-22-12	
1	25	28L	80,5	84,5	8556-1-28-16	
1.1/4	32	35L	95	106	8556-1-35-20	



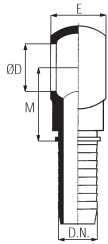
8558

BES-90°
ØD → ← DIN 2353

Haakse standpijp
Lisse nu coudé
Elbow stand pipe
Winkelrohrstutzen

DN		Ø DIN 2353	M	E	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5	08S		43,5	8558-1-08-03	
1/4	6	08S	28,5	43,5	8558-1-08-04	
1/4	6	10S	26,5	44,5	8558-1-10-04	
1/4	6	12S	28,5	44,5	8558-1-12-04	
5/16	8	12S	29	46,5	8558-1-12-05	
3/8	10	14S	29	60,5	8558-1-14-06	
1/2	12	14S	41	61,5	8558-1-14-08	
1/2	12	16S	42	63,5	8558-1-16-08	
5/8	16	20S	49	80,5	8558-1-20-10	
3/4	20	20S	61	80	8558-1-20-12	
3/4	20	25S	61	85,5	8558-1-25-12	
1	25	25S	80,5	94,5	8558-1-25-16	
1	25	30S	80,5	99,5	8558-1-30-16	

ATZ Aandrijftechniek B.V. (026-3112611)

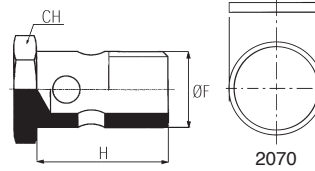


8570-1

RNM

8570-1 ↔ 8570-2 + 2070

Banjo oog metrisch
Oeil de banjo métrique
Banjo eye metric
Ringstutzen metrisch



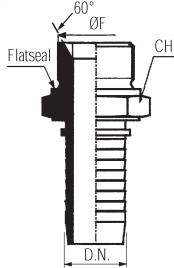
8570-2 2070

RNM

Banjo bout metrisch
Boulon de banjo métrique
Banjo bolt metric
Hohlschraube metrisch

DN		ØD	ØM	E	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	12	18,5	12	8570-1-12-04	
1/4	6	14	21,5	12,5	8570-1-14-04	
5/16	8	12	18,5	12	8570-1-12-05	
5/16	8	14	26,5	14	8570-1-14-05	
5/16	8	16	24,5	18	8570-1-16-05	
3/8	10	14	26,5	14	8570-1-14-06	
3/8	10	16	24,5	18	8570-1-16-06	
3/8	10	18	27,5	20	8570-1-18-06	
1/2	12	18	28,5	20	8570-1-18-08	
1/2	12	22	31	22	8570-1-22-08	
5/8	16	22	35,5	22	8570-1-22-10	
5/8	16	26	38	29	8570-1-26-10	
3/4	20	30	43	30	8570-1-30-12	
3/4	20	26	39,5	29	8570-1-26-12	

DN		H	Ø F METR.	CH	Fe/Zn/YP REF.	Cu REF. 2070
INCH	MM					
		21	M10x1	14	8570-2-M10	2070-10
		24	M12x1,5	17	8570-2-M12	2070-12
		27	M14x1,5	19	8570-2-M14	2070-14
		31	M16x1,5	22	8570-2-M16	2070-16
		36	M18x1,5	24	8570-2-M18	2070-18
		38	M22x1,5	27	8570-2-M22	2070-22
		44	M24x1,5	32	8570-2-M24	2070-24
		44	M26x1,5	32	8570-2-M26	2070-26
		46	M30x1,5	38	8570-2-M30	2070-30

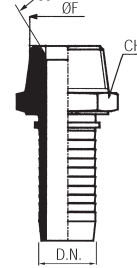


8600 3600

AGR-F

60° ↔ Globeseal DIN 3863
Flatseal ↔ Flatseal

Buitendraad BSPP
Filetage mâle BSPP
Male thread BSPP
Aussengewinde BSPP



8601 3601

AGR-K

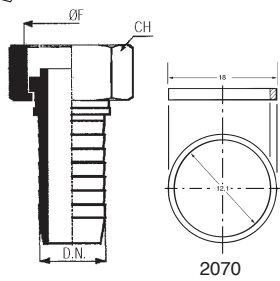
Threadsael

Buitendraad BSPT
Filetage mâle BSPT
Male thread BSPT
Aussengewinde BSPT

DN		Ø F BSPT.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/16	5	G1/8	14	8600-1-02-03	
1/4	6	G1/8	14	8600-1-02-04	3600-1-02-04
1/4	6	G1/4	19	8600-1-04-04	3600-1-04-04
1/4	6	G3/8	22	8600-1-06-04	3600-1-06-04
5/16	8	G1/4	19	8600-1-04-05	3600-1-04-05
5/16	8	G3/8	22	8600-1-06-05	3600-1-06-05
5/16	8	G1/2	27	8600-1-08-05	
3/8	10	G1/4	19	8600-1-04-06	
3/8	10	G3/8	22	8600-1-06-06	3600-1-06-06
3/8	10	G1/2	27	8600-1-08-06	3600-1-08-06
1/2	12	G3/8	22	8600-1-06-08	3600-1-06-08
1/2	12	G1/2	27	8600-1-08-08	3600-1-08-08
1/2	12	G5/8	30	8600-1-10-08	
1/2	12	G3/4	32	8600-1-12-08	
5/8	16	G1/2	27	8600-1-08-10	3600-1-08-10
5/8	16	G5/8	30	8600-1-10-10	
5/8	16	G3/4	32	8600-1-12-10	3600-1-12-10
3/4	12	G1/2	32	8600-1-08-12	
3/4	20	G3/4	32	8600-1-12-12	3600-1-12-12
3/4	20	G1	41	8600-1-16-12	3600-1-16-12
1	25	G1	41	8600-1-16-16	3600-1-16-16
1	25	G1.1/4	50	8600-1-20-16	3600-1-20-16
1.1/4	32	G1.1/4	50	8600-1-20-20	3600-1-20-20
1.1/4	32	G1.1/2	55		3600-1-24-20
1.1/2	40	G1.1/2	55	8600-1-24-24	3600-1-24-24
1.1/2	40	G2	70		3600-1-32-24
2	50	G2	70	8600-1-32-32	3600-1-32-32

DN		Ø F BSPT.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/16	5	R1/8	12	8601-1-02-03	
1/4	6	R1/8	12	8601-1-02-04	
1/4	6	R1/4	14	8601-1-04-04	3601-1-04-04
1/4	6	R3/8	19	8601-1-06-04	
5/16	8	R3/8	19	8601-1-06-05	3601-1-06-05
3/8	10	R3/8	19	8601-1-06-06	3601-1-06-06
3/8	10	R1/2	22	8601-1-08-06	3601-1-08-06
1/2	12	R1/2	22	8601-1-08-08	3601-1-08-08
5/8	16	R3/4	27	8601-1-12-10	
3/4	20	R3/4	27	8601-1-12-12	3601-1-12-12
3/4	20	R1	36	8601-1-16-12	
1	25	R1	36	8601-1-16-16	3601-1-16-16
1	25	R1.1/4	46	8601-1-20-16	
1.1/4	32	R1.1/4	46	8601-1-20-20	3601-1-20-20
1.1/2	40	R1.1/2	50	8601-1-24-24	
2	50	R2	65	8601-1-32-32	

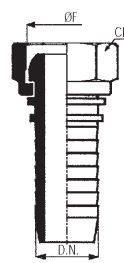
ATZ Aandrijftechniek B.V. (026-3112611)



8610

Flatsaal

Wartel Co2
Tournant Co2
Swivel Co2
Überwurfmutter Co2



8616 3616

DKR

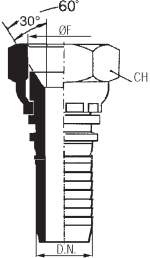
Globesaal DIN 3863 → ← 60° DIN 3863

Wartel BSPP
Tournant BSPP
Swivel BSPP
Überwurfmutter BSPP

DN		H	Ø F	CH	Fe/Zn/YP REF.	Cu REF. 2070
INCH	MM					
5/16	8		W21,8x14/1"	27	8610-1-21-05	2070-12/18

DN		Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/16	5	G1/8	14	8616-1-02-03	
3/16	5	G1/4	19	8616-1-04-03	
1/4	6	G1/8	14	8616-1-02-04	
1/4	6	G1/4	19	8616-1-04-04	3616-1-04-04
1/4	6	G3/8	22	8616-1-06-04	3616-1-06-04
5/16	8	G1/4	19	8616-1-04-05	3616-1-04-05
5/16	8	G3/8	22	8616-1-06-05	3616-1-06-05
5/16	8	G1/2	27	8616-1-08-05	
3/8	10	G1/4	19	8616-1-04-06	3616-1-04-06
3/8	10	G3/8	22	8616-1-06-06	3616-1-06-06
3/8	10	G1/2	27	8616-1-08-06	3616-1-08-06
1/2	12	G3/8	22	8616-1-06-08	3616-1-06-08
1/2	12	G1/2	27	8616-1-08-08	3616-1-08-08
1/2	12	G5/8	30	8616-1-10-08	3616-1-10-08
1/2	12	G3/4	32	8616-1-12-08	3616-1-12-08
5/8	16	G5/8	30	8616-1-10-10	3616-1-10-10
5/8	16	G3/4	32	8616-1-12-10	3616-1-12-10
3/4	20	G3/4	32	8616-1-12-12	3616-1-12-12
3/4	20	G1	41	8616-1-16-12	3616-1-16-12
1	25	G1	41	8616-1-16-16	3616-1-16-16
1	25	G1.1/4	50		3616-1-20-16
1	25	G1.1/2	55		3616-1-24-16
1.1/4	32	G1.1/4	50		3616-1-20-20
1.1/4	32	G1.1/2	55		3616-1-24-20
1.1/2	40	G1.1/2	55		3616-1-24-24
1.1/2	40	G2	70		3616-1-32-24
2	50	G2	70		3616-1-32-32

9

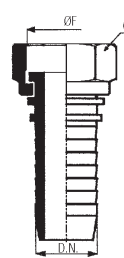


8617

JIS

30°

Wartel BSPP negatief
Tournant BSPP negatif
Swivel BSPP negative
Überwurfmutter BSPP negativ



8618 3618

DRF

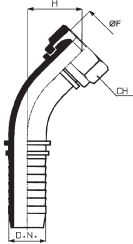
Flatsaal

Wartel, vlakdichtend
Tournant, étanchéité plat
Swivel, flatsaal
Überwurfmutter, Flachabdichtung

DN		Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
1/4	6	G1/4	19	8617-1-04-04	
3/8	10	G3/8	22	8617-1-06-06	
1/2	12	G1/2	27	8617-1-08-08	
3/4	20	G3/4	32	8617-1-12-12	
1	25	G1		8617-1-16-16	

DN		Ø F BSPT.	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
1/4	6	G1/8	19	8618-1-02-04	
1/4	6	G1/4	19	8618-1-04-04	3618-1-04-04
1/4	6	G3/8	22	8618-1-06-04	3618-1-06-04
5/16	8	G1/4	19		3618-1-04-05
5/16	8	G3/8	22	8618-1-06-05	3618-1-06-05
3/8	10	G1/4	19		3618-1-04-06
3/8	10	G3/8	22	8618-1-06-06	3618-1-06-06
3/8	10	G1/2	27	8618-1-08-06	3618-1-08-06
1/2	12	G3/8	22	8618-1-06-08	3618-1-06-08
1/2	12	G1/2	27	8618-1-08-08	3618-1-08-08
1/2	12	G5/8	30	8618-1-10-08	3618-1-10-08
1/2	12	G3/4	32	8618-1-12-08	3618-1-12-08
5/8	16	G5/8	30	8618-1-10-10	3618-1-10-10
5/8	16	G3/4	32	8618-1-12-10	3618-1-12-10
3/4	20	G3/4	32	8618-1-12-12	3618-1-12-12
3/4	20	G1	38	8618-1-16-12	3618-1-16-12
1	25	G1	38	8618-1-16-16	3618-1-16-16
1	25	G1.1/4	50		3618-1-20-16
1.1/4	32	G1.1/4	50	8618-1-20-20	3618-1-20-20
1	25	G1.1/2	55		3618-1-24-16
1.1/4	32	G1.1/2	55		3618-1-24-20
1.1/2	40	G1.1/2	55		3618-1-24-24
1.1/2	40	G2	70		3618-1-32-24
2	50	G2	70		3618-1-32-32

ATZ Aandrijftechniek B.V. (026-3112611)

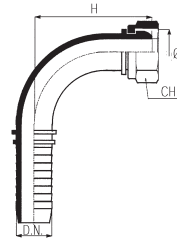


8619 3619

DKR-45

Globeseal DIN 3863 → ← 60° DIN 3863

**Wartel BSPP 45°
Tournant BSPP 45°
Swivel BSPP 45°
Überwurfmutter BSPP 45°**



8620 3620

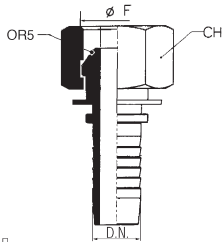
DKR-90

Globeseal DIN 3863 → ← 60° DIN 3863

**Wartel BSPP 90°
Tournant BSPP 90°
Swivel BSPP 90°
Überwurfmutter BSPP 90°**

DN		H	Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5		G1/8	14	8619-1-02-03	
1/4	6	14	G1/8	14	8619-1-02-04	
1/4	6	15,5	G1/4	19	8619-1-04-04	3619-1-04-04
1/4	6	15,5	G3/8	22	8619-1-06-04	
5/16	8	17	G3/8	22	8619-1-06-05	3619-1-06-05
3/8	10	21	G3/8	22	8619-1-06-06	3619-1-06-06
3/8	10	22,5	G1/2	27	8619-1-08-06	3619-1-08-06
1/2	12	21,5	G3/8	23	8619-1-06-08	
1/2	12	21,5	G1/2	27	8619-1-08-08	3619-1-08-08
1/2	12	23	G5/8	30	8619-1-10-08	
1/2	12	24,5	G3/4	32	8619-1-12-08	3619-1-12-08
5/8	16	29	G5/8	30	8619-1-10-10	3619-1-10-10
5/8	16	31	G3/4	32	8619-1-12-10	3619-1-12-10
3/4	20	30,5	G3/4	32	8619-1-12-12	3619-1-12-12
3/4	20	26	G1	41	8619-1-16-12	3619-1-16-12
1	25	36	G1	41	8619-1-16-16	3619-1-16-16
1	25	36,5	G1.1/4	50	3619-1-20-16	3619-1-20-16
1.1/4	32	35	G1.1/4	50	3619-1-20-20	3619-1-20-20
1.1/2	40	43	G1.1/2	55	3619-1-24-24	3619-1-24-24

DN		H	Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5		G1/8	14	8620-1-02-03	
3/16	5		G1/4	19	8620-1-04-03	
1/4	6	28,5	G1/8	14	8620-1-02-04	
1/4	6	30,5	G1/4	19	8620-1-04-04	3620-1-04-04
1/4	6	30,5	G3/8	22	8620-1-06-04	
5/16	8	32,5	G3/8	22	8620-1-06-05	3620-1-06-05
3/8	10	38,5	G3/8	22	8620-1-06-06	3620-1-06-06
3/8	10	41	G1/2	27	8620-1-08-06	3620-1-08-06
1/2	12	43	G3/8	22	8620-1-06-08	
1/2	12	43	G1/2	27	8620-1-08-08	3620-1-08-08
1/2	12	43	G5/8	30	8620-1-10-08	
1/2	12	47,5	G3/4	32	8620-1-12-08	3620-1-12-08
5/8	16	56	G1/2	27	8620-1-08-10	
5/8	16	56	G5/8	30	8620-1-10-10	3620-1-10-10
5/8	16	59	G3/4	32	8620-1-12-10	3620-1-12-10
3/4	20	60,5	G3/4	32	8620-1-12-12	3620-1-12-12
3/4	20	54,5	G1	41	8620-1-16-12	3620-1-16-12
1	25	75,5	G1	41	8620-1-16-16	3620-1-16-16
1	25	69	G1.1/4	50	3620-1-20-16	3620-1-20-16
1.1/4	32	73,5	G1.1/4	50	3620-1-20-20	3620-1-20-20
1.1/2	40	92,5	G1.1/2	55	3620-1-24-24	3620-1-24-24

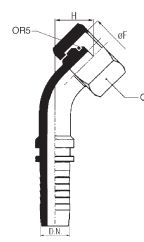


8622

DKOR

60°OR-seal ISO 8434-6 → ← 60° DIN 3863

**Wartel BSPP
Tournant BSPP
Swivel BSPP
Überwurfmutter BSPP**



8623

DKOR-45

60°OR-seal ISO 8434-6 → ← 60° DIN 3863

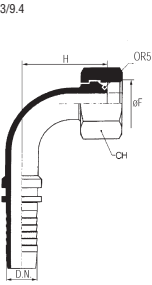
**Wartel BSPP 45°
Tournant BSPP 45°
Swivel BSPP 45°
Überwurfmutter BSPP 45°**



DN		H	Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6		G1/4	19	8622-1-04-04	
3/8	10		G3/8	22	8622-1-06-06	
1/2	12		G1/2	27	8622-1-08-08	
5/8	16		G5/8	30	8622-1-10-10	
3/4	20		G3/4	32	8622-1-12-12	
1	25		G1	41	8622-1-16-16	
1	25		G1.1/4	50	8622-1-20-16	
1.1/4	32		G1.1/4	50	8622-1-20-20	
1.1/4	32		G1.1/2	55	8622-1-24-20	
1.1/2	40		G1.1/2	55	8622-1-24-24	
1.1/2	40		G2	70	8622-1-32-24	
2	50		G2	70	8622-1-32-32	



DN		H	Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	13	G1/4	19	8623-1-04-04	
3/8	10	17	G3/8	22	8623-1-06-06	
1/2	12	21,5	G1/2	27	8623-1-08-08	
5/8	16	34,5	G5/8	30	8623-1-10-10	
3/4	20	30,5	G3/4	32	8623-1-12-12	
1	25	36	G1	41	8623-1-16-16	
1	25	31	G1.1/4	50	8623-1-20-16	
1.1/4	32	47,5	G1.1/4	50	8623-1-20-20	
1.1/4	32	49,5	G1.1/2	55	8623-1-24-20	
1.1/2	40	55	G1.1/2	55	8623-1-24-24	
1.1/2	40	54	G2	70	8623-1-32-24	
2	50	64,5	G2	70	8623-1-32-32	

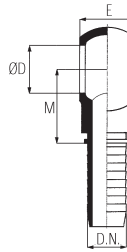


8624

DKOR-90

60°OR-seal ISO 8434-6 → ← 60° DIN 3863

**Wartel BSPP 90°
Tournant BSPP 90°
Swivel BSPP 90°
Überwurfmutter BSPP 90°**



8640-1

RNR

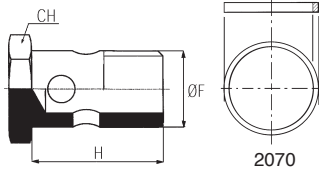
**Banjo oog BSPP
Oeil de banjo BSPP
Banjo eye BSPP
Ringstutzen BSPP**



DN		H	Ø F BSPT	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	27	G1/4	19	8624-1-04-04	
3/8	10	35	G3/8	22	8624-1-06-06	
1/2	12	40,5	G1/2	27	8624-1-08-08	
5/8	16	61,5	G5/8	30	8624-1-10-10	
3/4	20	60,5	G3/4	32	8624-1-12-12	
1	25	75,5	G1	41	8624-1-16-16	
1	25	68	G1.1/4	50	8624-1-20-16	
1.1/4	32	95	G1.1/4	50	8624-1-20-20	
1.1/4	32	97,5	G1.1/2	55	8624-1-24-20	
1.1/2	40	110,5	G1.1/2	55	8624-1-24-24	
1.1/2	40	108,5	G2	70	8624-1-32-24	
2	50	103,5	G2	70	8624-1-32-32	

DN		ØD		M	E	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM	INCH	MM				
3/16	5	1/8	9,7			8640-1-02-03	
3/16	5	1/4	13,6			8640-1-04-03	
1/4	6	1/4	13,6	21,5	14	8640-1-04-04	
5/16	8	1/4	16,8	21,5	14	8640-1-04-05	
5/16	8	3/8	16,8	24,5	18	8640-1-06-05	
3/8	10	3/8	16,8	24,5	18	8640-1-06-06	
3/8	10	1/2	21,5	30	22	8640-1-08-06	
1/2	12	1/2	21,5	31	22	8640-1-08-08	
1/2	12	5/8	23	33,5	23,5	8640-1-10-08	
5/8	16	5/8	23	33,5	23,5	8640-1-10-10	
5/8	16	3/4	26,8	38	29	8640-1-12-10	
3/4	20	3/4	26,8	39,5	29	8640-1-12-12	
3/4	20	1	33,5	48	38	8640-1-16-12	
1	25	1	33,5	48	38	8640-1-16-16	

9



8640-2

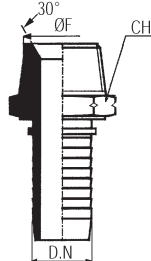
RNR

**Banjo bout BSPP
Boulon de banjo BSPP
Banjo bolt BSPP
Hohlschraube BSPP**

DN		H	Ø F	CH	Fe/Zn/YP REF.	Cu REF. 2070
INCH	MM					
		19	G1/8	14	8640-2-02	2070-10
		25	G1/4	17	8640-2-04	2070-13
		31	G3/8	22	8640-2-06	2070-17
		40	G1/2	27	8640-2-08	2070-21
		42	G5/8	30	8640-2-10	2070-24
		47	G3/4	32	8640-2-12	2070-27
		58	G1	41	8640-2-16	2070-34

DN		ØD		M	E	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM	INCH	MM				

ATZ Aandrijftechniek B.V. (026-3112611)



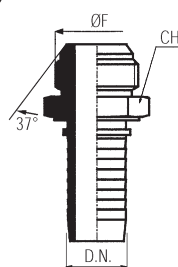
8700 3700

AGN

Threadseal 60° ↔ Threadseal NPTF
↔ 30° NPSM

Buitendraad NPTF
Filetage mâle NPTF
Male thread NPTF
Aussengewinde NPTF

DN		Ø F NPTF	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/16	5	1/8-27	12	8700-1-02-03	
3/16	5	1/4-18	14	8700-1-04-03	
1/4	6	1/8-27	12	8700-1-02-04	
1/4	6	1/4-18	14	8700-1-04-04	3700-1-04-04
1/4	6	3/8-18	19	8700-1-06-04	
5/16	8	1/4-18	14		3700-1-04-05
5/16	8	3/8-18	19	8700-1-06-05	3700-1-06-05
3/8	10	1/4-18	16	8700-1-04-06	
3/8	10	3/8-18	19	8700-1-06-06	3700-1-06-06
3/8	10	1/2-14	22	8700-1-08-06	3700-1-08-06
1/2	12	3/8-18	19	8700-1-06-08	
1/2	12	1/2-14	22	8700-1-08-08	3700-1-08-08
1/2	12	3/4-14	27	8700-1-12-08	
5/8	16	1/2-14	22	8700-1-08-10	3700-1-08-10
5/8	16	3/4-14	27	8700-1-12-10	3700-1-12-10
3/4	20	3/4-14	27	8700-1-12-12	3700-1-12-12
3/4	20	1-11,5	36	8700-1-16-12	3700-1-16-12
1	25	1-11,5	36	8700-1-16-16	3700-1-16-16
1	25	1.1/4-11,5	46	8700-1-20-16	3700-1-20-16
1.1/4	32	1.1/4-11,5	46	8700-1-20-20	3700-1-20-20
1.1/2	40	1.1/2-11,5	50	8700-1-24-24	3700-1-24-24
1.1/2	40	2-11,5	65	8700-1-32-24	3700-1-32-24
2	50	2-11,5	65	8700-1-32-32	3700-1-32-32



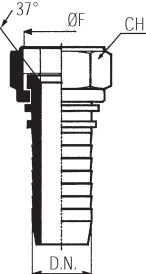
8701 3701

AGJ

37° JIC

Buitendraad UN(F)
Filetage mâle UN(F)
Male thread UN(F)
Aussengewinde UN(F)

DN		Ø F UN(F)	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/16	5	7/16-20	14	8701-1-04-03	
1/4	6	7/16-20	14	8701-1-04-04	3701-1-04-04
1/4	6	1/2-20	17	8701-1-05-04	3701-1-05-04
1/4	6	9/16-18	19	8701-1-06-04	3701-1-06-04
5/16	8	1/2-20	17	8701-1-05-05	3701-1-05-05
5/16	8	9/16-18	19	8701-1-06-05	3701-1-06-05
3/8	10	9/16-18	19	8701-1-06-06	3701-1-06-06
3/8	10	3/4-16	22	8701-1-08-06	3701-1-08-06
3/8	10	7/8-14	24	8701-1-10-06	
1/2	12	3/4-16	22	8701-1-08-08	3701-1-08-08
1/2	12	7/8-14	24	8701-1-10-08	3701-1-10-08
1/2	12	1.1/16-12	27	8701-1-12-08	
5/8	16	7/8-14	24	8701-1-10-10	3701-1-10-10
5/8	16	1.1/16-12	32	8701-1-12-10	3701-1-12-10
3/4	20	1.1/16-12	27	8701-1-12-12	3701-1-12-12
3/4	20	1.3/16-12	32	8701-1-14-12	
3/4	20	1.5/16-12	34	8701-1-16-12	3701-1-16-12
1	25	1.1/16-12	32	8701-1-12-16	
1	25	1.5/16-12	36	8701-1-16-16	3701-1-16-16
1	25	1.5/8-12	42	8701-1-20-16	
1.1/4	32	1.5/8-12	46	8701-1-20-20	3701-1-20-20
1.1/4	32	1.7/8-12	50	8701-1-24-20	
1.1/2	40	1.7/8-12	50	8701-1-24-24	3701-1-24-24
2	50	2.1/2-12	65	8701-1-32-32	3701-1-32-32



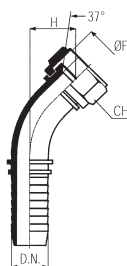
8719 3719

DKJ

37° JIC

Wartel UN(F)
Tournant UN(F)
Swivel UN(F)
Überwurfmutter UN(F)

DN		Ø F UN(F)	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/16	5	7/16-20	14	8719-1-04-03	
1/4	6	7/16-20	14	8719-1-04-04	3719-1-04-04
1/4	6	1/2-20	16	8719-1-05-04	3719-1-05-04
1/4	6	9/16-18	19	8719-1-06-04	3719-1-06-04
5/16	8	1/2-20	16	8719-1-05-05	3719-1-05-05
5/16	8	9/16-18	19	8719-1-06-05	3719-1-06-05
3/8	10	9/16-18	19	8719-1-06-06	3719-1-06-06
3/8	10	3/4-16	24	8719-1-08-06	3719-1-08-06
3/8	10	7/8-14	27	8719-1-10-06	
1/2	12	3/4-16	24	8719-1-08-08	3719-1-08-08
1/2	12	7/8-14	27	8719-1-10-08	3719-1-10-08
1/2	12	1.1/16-12	32	8719-1-12-08	
5/8	16	7/8-14	27	8719-1-10-10	3719-1-10-10
5/8	16	1.1/16-12	32	8719-1-12-10	3719-1-12-10
3/4	20	1.1/16-12	32	8719-1-12-12	3719-1-12-12
3/4	20	1.3/16-12	36	8719-1-14-12	
3/4	20	1.5/16-12	41	8719-1-16-12	3719-1-16-12
1	25	1.1/16-12	32	8719-1-12-16	
1	25	1.5/16-12	41	8719-1-16-16	3719-1-16-16
1	25	1.5/8-12	50	8719-1-20-16	
1.1/4	32	1.5/8-12	50	8719-1-20-20	3719-1-20-20
1.1/4	32	1.7/8-12s	60	8719-1-24-20	
1.1/2	40	1.7/8-12	60	8719-1-24-24	3719-1-24-24
2	50	2.1/2-12	70	8719-1-32-32	3719-1-32-32



8720 3720

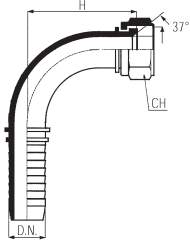
DKJ-45

37° JIC

Wartel UN(F) 45°
Tournant UN(F) 45°
Swivel UN(F) 45°
Überwurfmutter UN(F) 45°

DN		H	Ø F UN(F)	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	14	7/16-20	14	8720-1-04-04	3720-1-04-04
1/4	6	14,5	1/2-20	16	8720-1-05-04	3720-1-05-04
1/4	6	15	9/16-18	19	8720-1-06-04	3720-1-06-04
5/16	8	18	1/2-20	26		3720-1-05-05
5/16	8	16,5	9/16-18	19	8720-1-06-05	3720-1-06-05
3/8	10	21	9/16-18	19	8720-1-06-06	3720-1-06-06
3/8	10	21,5	3/4-16	24	8720-1-08-06	3720-1-08-06
3/8	10	25	7/8-14	27	8720-1-10-06	
1/2	12	20,5	3/4-16	24	8720-1-08-08	3720-1-08-08
1/2	12	21,5	7/8-14	27	8720-1-10-08	3720-1-10-08
1/2	12	24	1.1/16-12	32	8720-1-12-08	
5/8	16	27,5	7/8-14	27	8720-1-10-10	3720-1-10-10
5/8	16	30	1.1/16-12	32	8720-1-12-10	3720-1-12-10
3/4	20	29	1.1/16-12	32	8720-1-12-12	3720-1-12-12
3/4	20	24,5	1.3/16-12	36	8720-1-14-12	
3/4	20	25,5	1.5/16-12	41	8720-1-16-12	3720-1-16-12
1	25	35	1.5/16-12	41	8720-1-16-16	3720-1-16-16
1	25	37,5	1.5/8-12	50	8720-1-20-16	
1.1/4	32	45,5	1.5/8-12	50	8720-1-20-20	3720-1-20-20
1.1/4	32	47	1.7/8-12	55	8720-1-24-20	
1.1/2	40	52	1.7/8-12	55	8720-1-24-24	3720-1-24-24
2	50	62	2.1/2-12	70	8720-1-32-32	3720-1-32-32

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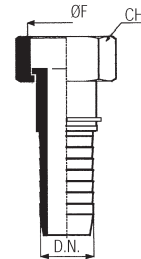


8721 3721

DKJ-90

37° JIC

Wartel UN(F) 90°
Tournant UN(F) 90°
Swivel UN(F) 90°
Überwurfmutter UN(F) 90°



8722

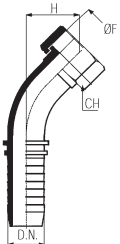
ORFS

Wartel
Tournant
Swivel
Überwurfmutter

DN		H	Ø F UN(F)	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/16	5		7/16-20	14	8721-1-04-03	
1/4	6	28	7/16-20	14	8721-1-04-04	3721-1-04-04
1/4	6	29	1/2-20	16	8721-1-05-04	3721-1-05-04
1/4	6	30	9/16-18	19	8721-1-06-04	3721-1-06-04
5/16	8	33	1/2-20	16		3721-1-05-05
5/16	8	32	9/16-18	19	8721-1-06-05	3721-1-06-05
3/8	10	40	9/16-18	19	8721-1-06-06	3721-1-06-06
3/8	10	41	3/4-16	24	8721-1-08-06	3721-1-08-06
3/8	10	40	7/8-14	27	8721-1-10-06	
1/2	12	42	3/4-16	24	8721-1-08-08	3721-1-08-08
1/2	12	43	7/8-14	27	8721-1-10-08	3721-1-10-08
1/2	12	46,5	1.1/16-12	32	8721-1-12-08	
5/8	16	55,5	7/8-14	27	8721-1-10-10	3721-1-10-10
5/8	16	58	1.1/16-12	32	8721-1-12-10	3721-1-12-10
3/4	20	58,5	1.1/16-12	32	8721-1-12-12	3721-1-12-12
3/4	20	55,5	1.3/16-12	36	8721-1-14-12	
3/4	20	57	1.5/16-12	41	8721-1-16-12	3721-1-16-12
1	25	73,5	1.5/16-12	41	8721-1-16-16	3721-1-16-16
1	25	77,5	1.5/8-12	50	8721-1-20-16	
1.1/4	32	92	1.5/8-12	50	8721-1-20-20	3721-1-20-20
1.1/4	32	94,5	1.7/8-12	55	8721-1-24-20	
1.1/2	40	105,5	1.7/8-12	55	8721-1-24-24	3721-1-24-24
2	50	129	2.1/2-12	70	8721-1-32-32	3721-1-32-32

DN		H	Ø F UN(F)(S)	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6		9/16-18	17,5	8722-1-04-04	
1/4	6		11/16-16	20,6	8722-1-06-04	
1/4	6		13/16-16	23,8	8722-1-08-04	
5/16	8		11/16-16	20,6	8722-1-06-05	
3/8	10		11/16-16	20,6	8722-1-06-06	
3/8	10		13/16-16	23,8	8722-1-08-06	
1/2	12		13/16-16	23,8	8722-1-08-08	
5/8	16		1-14	28,6	8722-1-10-10	
3/4	20		1.3/16-12	34,9	8722-1-12-12	
1	25		1.7/16-12	41,3	8722-1-16-16	
1.1/4	32		1.11/16-12	47,2	8722-1-20-20	
1.1/2	40		2-12	57,2	8722-1-24-24	

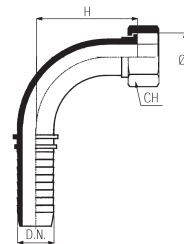
9



8723

ORFS-45

Wartel 45°
Tournant 45°
Swivel 45°
Überwurfmutter 45°



8724

ORFS-90

Wartel 90°
Tournant 90°
Swivel 90°
Überwurfmutter 90°

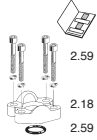
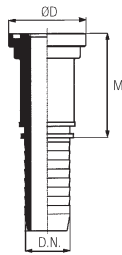
DN		H	Ø F UN(F)(S)	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	13,2	9/16-18	17,5	8723-1-04-04	
1/4	6	17,0	11/16-16	20,6	8723-1-06-04	
5/16	8		11/16-16	20,6	8723-1-06-05	
3/8	10	17,0	11/16-16	20,6	8723-1-06-06	
1/2	12	20,8	13/16-16	23,8	8723-1-08-08	
5/8	16	25,4	1-14	28,6	8723-1-10-10	
3/4	20	27,0	1.3/16-12	34,9	8723-1-12-12	
1	25	32,0	1.7/16-12	41,3	8723-1-16-16	

DN		H	Ø F UN(F)(S)	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/4	6	26,9	9/16-18	17,5	8724-1-04-04	
1/4	6	34,5	11/16-16	20,6	8724-1-06-04	
3/8	10	34,5	11/16-16	20,6	8724-1-06-06	
3/8	10	42,2	13/16-16	23,8	8724-1-08-06	
1/2	12	42,2	13/16-16	23,8	8724-1-08-08	
5/8	16	53,1	1-14	28,6	8724-1-10-10	
3/4	20	59,0	1.3/16-12	34,9	8724-1-12-12	
1	25	65,0	1.7/16-12	41,3	8724-1-16-16	

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9.3/9.4



2.59

2.18

2.59

8770 3770

FL3

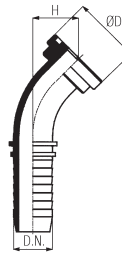
SAE J518-3000 PSI

SAE flensaansluiting
Embout à bride SAE
SAE flange connection
SAE Flansch-Schulter

DN		SAE	M	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/2	12	1/2"	51	30	8770-1-08-08	3770-1-08-08
1/2	12	3/4"	56	38	8770-1-12-08	3770-1-12-08
5/8	16	1/2"	50	30		3770-1-08-10
5/8	16	3/4"	56	38	8770-1-12-10	3770-1-12-10
3/4	20	3/4"	57,5	38	8770-1-12-12	3770-1-12-12
3/4	20	1"	60,5	44,5	8770-1-16-12	3770-1-16-12
1	25	1"	63,5	44,5	8770-1-16-16	3770-1-16-16
1	25	1.1/4"	66,5	50,8	8770-1-20-16	3770-1-20-16
1.1/4	32	1.1/4"	71	50,8	8770-1-20-20	3770-1-20-20
1.1/4	32	1.1/2"	74	60,3	8770-1-24-20	3770-1-24-20
1.1/2	40	1.1/2"	77	60,3	8770-1-24-24	3770-1-24-24
1.1/2	40	2"	80	71,4	8770-1-32-24	
2	50	2"	80,5	71,4	8770-1-32-32	3770-1-32-32
2	50	2.1/2"	83,5	71,4	8770-1-40-32	



9.3/9.4



2.59

2.18

2.59

8773 3773

FL3-45

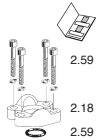
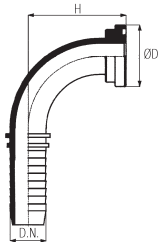
SAE J518-3000 PSI

SAE flensaansluiting 45°
Embout à bride SAE 45°
SAE flange connection 45°
SAE Flansch-Schulter 45°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/2	12	1/2"	20,5	30	8773-1-08-08	3773-1-08-08
1/2	12	3/4"	24	38	8773-1-12-08	3773-1-12-08
5/8	16	1/2"	25	30		3773-1-08-10
5/8	16	3/4"	28,5	38	8773-1-12-10	3773-1-12-10
3/4	20	3/4"	28,5	38	8773-1-12-12	3773-1-12-12
3/4	20	1"	28	44,5	8773-1-16-12	3773-1-16-12
1	25	1"	29,5	44,5	8773-1-16-16	3773-1-16-16
1	25	1.1/4"	31	50,8	8773-1-20-16	3773-1-20-16
1.1/4	32	1.1/4"	36	50,8	8773-1-20-20	3773-1-20-20
1.1/4	32	1.1/2"	40	60,3	8773-1-24-20	3773-1-24-20
1.1/2	40	1.1/2"	41,5	60,3	8773-1-24-24	3773-1-24-24
1.1/2	40	2"	46	71,4	8773-1-32-24	
2	50	2"	50	71,4	8773-1-32-32	3773-1-32-32



9.3/9.4



2.59

2.18

2.59

8776 3776

FL3-90

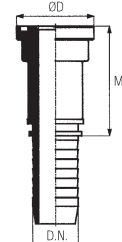
SAE J518-3000 PSI

SAE flensaansluiting 90°
Embout à bride SAE 90°
SAE flange connection 90°
SAE Flansch-Schulter 90°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/2	12	1/2"	43,5	30	8776-1-08-08	3776-1-08-08
1/2	12	3/4"	47,5	38	8776-1-12-08	3776-1-12-08
5/8	16	1/2"	45	30		3776-1-08-10
5/8	16	3/4"	58	38	8776-1-12-10	3776-1-12-10
3/4	20	3/4"	58	38	8776-1-12-12	3776-1-12-12
3/4	20	1"	57	44,5	8776-1-16-12	3776-1-16-12
1	25	1"	66	44,5	8776-1-16-16	3776-1-16-16
1	25	1.1/4"	68,5	50,8	8776-1-20-16	3776-1-20-16
1.1/4	32	1.1/4"	79	50,8	8776-1-20-20	3776-1-20-20
1.1/4	32	1.1/2"	84,5	60,3	8776-1-24-20	3776-1-24-20
1.1/2	40	1.1/2"	91,5	60,3	8776-1-24-24	3776-1-24-24
1.1/2	40	2"	97,5	71,4	8776-1-32-24	
2	50	2"	108,5	71,4	8776-1-32-32	3776-1-32-32



9.3/9.4



2.59

2.40

2.59

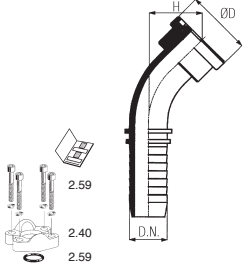
8777 3777

FL6

SAE J518-6000 PSI

SAE flensaansluiting
Embout à bride SAE
SAE flange connection
SAE Flansch-Schulter

DN		SAE	M	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/2	12	1/2"	52	31,7	8777-1-08-08	3777-1-08-08
1/2	12	3/4"	60	41,3	8777-1-12-08	3777-1-12-08
5/8	16	3/4"	63	41,3	8777-1-12-10	3777-1-12-10
3/4	20	3/4"	65,5	41,3	8777-1-12-12	3777-1-12-12
3/4	20	1"	70	47,6	8777-1-16-12	
1	25	1"	74,5	47,6	8777-1-16-16	3777-1-16-16
1	25	1.1/4"	79	54	8777-1-20-16	
1.1/4	32	1.1/4"	83,5	54	8777-1-20-20	3777-1-20-20
1.1/4	32	1.1/2"	88	63,5	8777-1-24-20	
1.1/2	40	1.1/2"	92,5	63,5	8777-1-24-24	3777-1-24-24
1.1/2	40	2"	97	79,4	8777-1-32-24	
2	50	2"	101,5	79,4	8777-1-32-32	3777-1-32-32

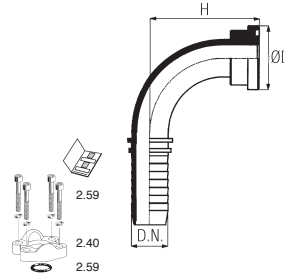


8780 3780

FL6-45

SAE J518-6000 PSI

SAE flensaansluiting 45°
Embout à bride SAE 45°
SAE flange connection 45°
SAE Flansch-Schulter 45°



8783 3783

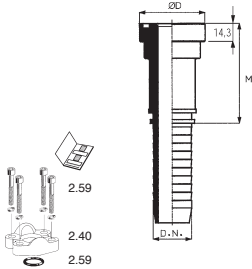
FL6-90

SAE J518-6000 PSI

SAE flensaansluiting 90°
Embout à bride SAE 90°
SAE flange connection 90°
SAE Flansch-Schulter 90°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/2	12	1/2"	21,5	31,7	8780-1-08-08	3780-1-08-08
1/2	12	3/4"	27	41,3	8780-1-12-08	
5/8	16	3/4"	31	41,3	8780-1-12-10	3780-1-12-10
3/4	20	3/4"	28,5	41,3	8780-1-12-12	3780-1-12-12
3/4	20	1"	32,5	47,6	8780-1-16-12	
1	25	1"	34	47,6	8780-1-16-16	3780-1-16-16
1	25	1.1/4"	39	54	8780-1-20-16	
1.1/4	32	1.1/4"	44	54	8780-1-20-20	3780-1-20-20
1.1/4	32	1.1/2"	50	63,5	8780-1-24-20	
1.1/2	40	1.1/2"	52	63,5	8780-1-24-24	3780-1-24-24
1.1/2	40	2"	63	79,4	8780-1-32-24	
2	50	2"	67	79,4	8780-1-32-32	3780-1-32-32

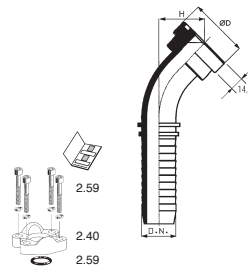
DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
1/2	12	1/2"	43	31,7	8783-1-08-08	3783-1-08-08
1/2	12	3/4"	51	41,3	8783-1-12-08	
5/8	16	3/4"	62	41,3	8783-1-12-10	3783-1-12-10
3/4	20	3/4"	58	41,3	8783-1-12-12	3783-1-12-12
3/4	20	1"	64	47,6	8783-1-16-12	
1	25	1"	73	47,6	8783-1-16-16	3783-1-16-16
1	25	1.1/4"	80	54	8783-1-20-16	
1.1/4	32	1.1/4"	90,5	54	8783-1-20-20	3783-1-20-20
1.1/4	32	1.1/2"	99	63,5	8783-1-24-20	8733-1-24-20
1.1/2	40	1.1/2"	106	63,5	8783-1-24-24	3783-1-24-24
1.1/2	40	2"	122	79,4	8783-1-32-24	8733-1-32-24
2	50	2"	139	79,4	8783-1-32-32	3783-1-32-32



8787

FL-TYPE CAT

CAT flensaansluiting
Embout à bride CAT
CAT flange connection
CAT Flansch-Schulter



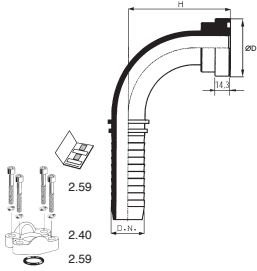
8790

FL-TYPE CAT-45

CAT flensaansluiting 45°
Embout à bride CAT 45°
CAT flange connection 45°
CAT Flansch-Schulter 45°

DN		SAE	M	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	71	41,3	8787-1-12-12	
3/4	20	1"	75,5	47,6	8787-1-16-12	
1	25	1"	80	47,6	8787-1-16-16	
1	25	1.1/4"	84,5	54	8787-1-20-16	
1.1/4	32	1.1/4"	89	54	8787-1-20-20	
1.1/4	32	1.1/2"	93,5	63,5	8787-1-24-20	
1.1/2	40	1.1/2"	98	63,5	8787-1-24-24	

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	32,5	41,3	8790-1-12-12	
3/4	20	1"	36	47,6	8790-1-16-12	
1	25	1"	36	47,6	8790-1-16-16	
1	25	1.1/4"	42	54	8790-1-20-16	
1.1/4	32	1.1/4"	47	54	8790-1-20-20	
1.1/4	32	1.1/2"	51,5	63,5	8790-1-24-20	
1.1/2	40	1.1/2"	53	63,5	8790-1-24-24	



8793

FL-TYPE CAT-90

CAT flensaansluiting 90°
Embout à bride CAT 90°
CAT flange connection 90°
CAT Flansch-Schulter 90°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	63,5	41,3	8793-1-12-12	
3/4	20	1"	68,5	47,6	8793-1-16-12	
1	25	1"	77,5	47,6	8793-1-16-16	
1	25	1.1/4"	84	54	8793-1-20-16	
1.1/4	32	1.1/4"	94,5	54	8793-1-20-20	
1.1/4	32	1.1/2"	100,5	63,5	8793-1-24-20	
1.1/2	40	1.1/2"	107,5	63,5	8793-1-24-24	

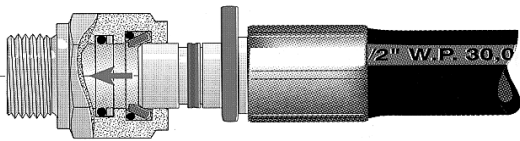
WEO Plug-In

Simple yet ingenious and with excellent development potential

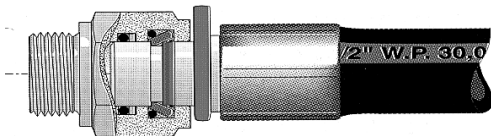


Easy to connect.....

The plug is pushed into the socket so that the catches are pressed outwards

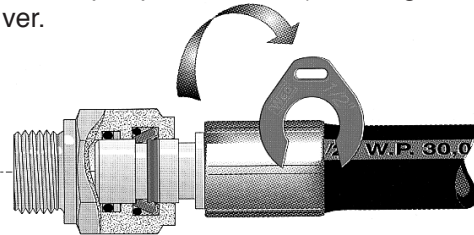


The coupling is now locked and cannot be disconnected

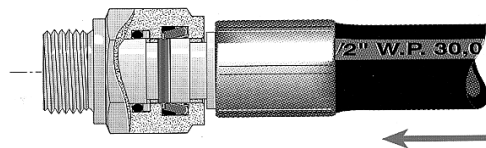


.....and just as easy to disconnect

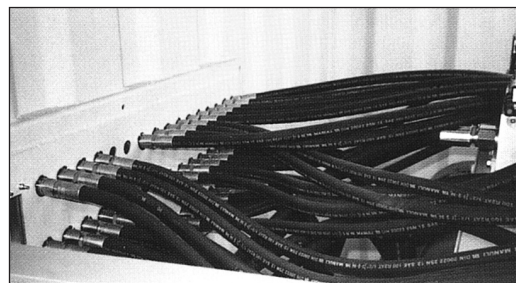
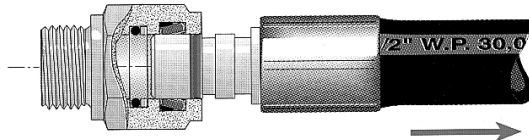
The stop-clip is removed (f.e. using a screwdriver).



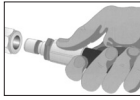
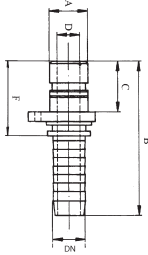
The plug is pushed all the way in so that the unlocking-ring pushes the catches aside.



Pull out the plug.



ATZ Aandrijftechniek B.V. (026-3112611)

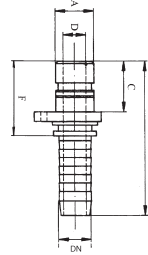


8320

SAE 100R1/R2

Insteekslangkoppeling
Raccord mâle pour flexible
Hoseplug - straight
Stecker für Schlauch

DN		WP BAR	WEO Size	ØA	B	C	ØD	F	Fe/Zn/YP REF.
INCH	MM								
1/4	6	350	1/4"	10	58	19	4,5	30	8320-1-04-04
1/4	6	350	3/8"	13	61	22	4,5	33	8320-1-06-04
5/16	8	350	3/8"	13	61	22	5,6	33	8320-1-06-05
3/8	10	350	3/8"	13	63	22	7	33	8320-1-06-06
3/8	10	350	1/2"	16	63	22	7	33	8320-1-08-06
1/2	12	350	1/2"	16	64	22	9,5	33	8320-1-08-08
1/2	12	350	3/4"	23	73,5	31	9,5	42,5	8320-1-12-08
5/8	16	350	3/4"	23	77,5	31	13	43,3	8320-1-12-10
3/4	20	350	3/4"	23	82	31	15	43	8320-1-12-12
1	25	250	1"	30	100,5	38,5	21	54	8320-1-16-16

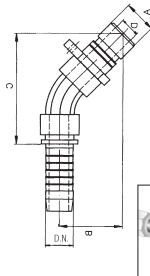


8321

DIN 20 023 4SP

Insteekslangkoppeling
Raccord mâle pour flexible
Hoseplug - straight
Stecker für Schlauch

DN		WP BAR	WEO Size	ØA	B	C	ØD	F	Fe/Zn/YP REF.
INCH	MM								
3/4	20	350	3/4"	23	91	31	15	45	8321-10-12-12
1	25	250	1"	30	110	38,5	21	55	8321-10-16-16

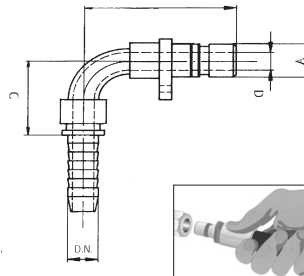


8322

SAE 100R1/R2

Insteekslangkoppeling 45°
Raccord mâle pour flexible 45°
Hoseplug - straight 45°
Stecker für Schlauch 45°

DN		WP BAR	WEO Size	ØA	B	C	ØD	F	Fe/Zn/YP REF.
INCH	MM								
1/4	6	350	1/4"	10	28	51	4,5		8322-1-04-04
1/4	25	350	3/8"	13	32	55	4,5		8322-1-06-04
5/16	8	350	3/8"	13	33	59	5,6		8322-1-06-05
3/8	10	350	3/8"	13	33	59	7		8322-1-06-06
3/8	10	350	1/2"	16	34	60	7		8322-1-08-06
1/2	12	350	1/2"	16	36	66	9		8322-1-08-08
1/2	12	350	3/4"	23	44	73	9		8322-1-12-08
5/8	16	350	3/4"	23	55	103	13		8322-1-12-10
3/4	20	350	3/4"	23	55	103	15		8322-1-12-12

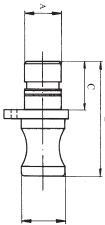


8324

SAE 100R1/R2

Insteekslangkoppeling 90°
Raccord mâle pour flexible 90°
Hoseplug - straight 90°
Stecker für Schlauch 90°

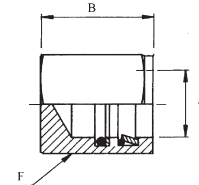
DN		WP BAR	WEO Size	ØA	B	C	ØD	F	Fe/Zn/YP REF.
INCH	MM								
1/4	6	350	1/4"	10	51	34	4,5		8324-1-04-04
1/4	25	350	3/8"	13	56	34	4,5		8324-1-06-04
5/16	8	350	3/8"	13	60	40	5,6		8324-1-06-05
3/8	10	350	3/8"	13	60	40	7		8324-1-06-06
3/8	10	350	1/2"	16	61	40	7		8324-1-08-06
1/2	12	350	1/2"	16	69	48	9		8324-1-08-08
1/2	12	350	3/4"	23	79	48	9		8324-1-12-08
5/8	16	350	3/4"	23	105	75	13		8324-1-12-10
3/4	20	350	3/4"	23	105	75	15		8324-1-12-12



8330

Insteekblindplug
Bouchon mâle
Stop plug
Verschlussstecker

DN		WP BAR	WEO Size	ØA	B	C	ØE	F	Fe/Zn/YP REF.
INCH	MM								
		350	1/4"	10	43	19	12		8330-04
		350	3/8"	13	50	22	16		8330-06
		350	1/2"	16	50	22	19		8330-08
		350	3/4"	23	59	31	25		8330-12
		50	1"	30	75	38,5	33		8330-16

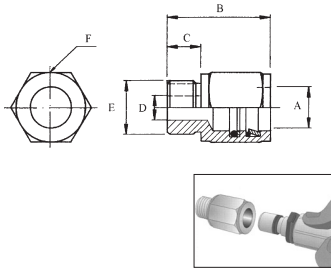


8340

Blindsok
Capuchon femelle
Stopsocket
Verschlusssteckbuchsen

DN		WP BAR	WEO Size	ØA	B	C	F	Fe/Zn/YP REF.
INCH	MM							
		350	1/4"	10	28		19	8340-04
		350	3/8"	13	31		22	8340-06
		350	1/2"	16	32		27	8340-08
		350	3/4"	23	44		32	8340-12
		250	1"	30	55		41	8340-16

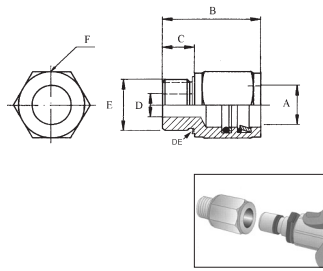
8341



BSPP

**Inschroefsok
Raccord femelle
Socket - external thread
Steckbuchse - Außengewinde**

8342-DE



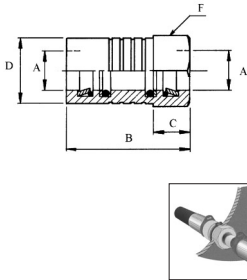
BSPP

**Inschroefsok DE
Raccord femelle DE
Socket - external thread DE
Steckbuchse - Außengewinde DE**

WP BAR	WEO Size	ØA	B	C	ØD	E	F	Fe/Zn/YP REF.
350	1/4"	10	38	12	4,5	G1/4"	19	8341-04-04
350	3/8"	13	41	12	7	G3/8"	22	8341-06-06
350	1/2"	16	43	14	9,5	G1/2"	27	8341-08-08
350	3/4"	23	56	16	15	G3/4"	32	8341-12-12
250	1"	30	67	18	21,5	G1"	41	8341-16-16

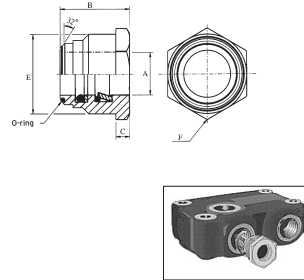
WP BAR	WEO Size	ØA	B	C	ØD	E	F	Fe/Zn/YP REF.
350	1/4"	10	38	12	4,5	G1/4"	19	8342-04-04DE
350	3/8"	13	41	12	7	G3/8"	22	8342-06-06DE
350	1/2"	16	43	14	9,5	G1/2"	27	8342-08-08DE

8344



**Schotkoppelings-sok
Raccord traversée de cloison
Straight bulkhead coupling
Schottdoppelkupplung**

8345

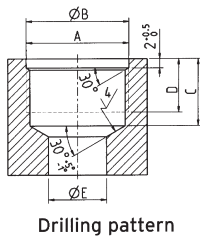


**Inschroefsok
Insert fileté
Insert
Einschraubbuchsen**

WP BAR	WEO Size	ØA	B	C	ØD	F	Fe/Zn/YP REF.
350	1/4"	10	42	11	19	19	8344-04
350	3/8"	13	49	14,5	22	22	8344-06
350	1/2"	16	49	14,5	27	27	8344-08
350	3/4"	23	67	20	36	36	8344-12
250	1"	30	84	25	45	45	8344-16

WP BAR	WEO Size	ØA	B	C	E	F	Fe/Zn/YP REF.
350	1/4"	10	21	4	M22x1,5	22	8345-22-04
350	3/8"	13	23,5	4,5	M24x1,5	24	8345-24-06
350	1/2"	16	23,7	4,7	M27x1,5	27	8345-27-08
350	3/4"	23	33,5	9,5	M36x1,5	36	8345-36-12

8345

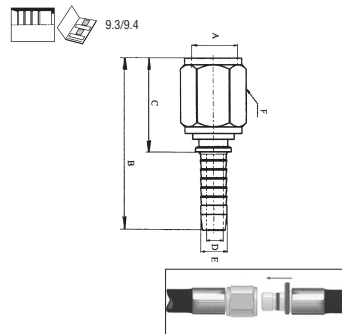


Drilling pattern

**Boorpatroon inschroefsok
Cotes d'implantation
Drilling pattern
Bohrung**

WEO Size	ØA	ØB -0/+0,2	C ±0,2	D min.	ØE max.	
1/4"	M22x1,5	22,1	14,4	11,5	12,5	30-50 Nm
3/8"	M24x1,5	24,1	16,7	13,0	15,5	40-60 Nm
1/2"	M27x1,5	27,1	16,7	13,0	18,5	70-90 Nm
3/4"	M36x1,5	36,1	21,1	17,0	25,5	90-120 Nm

8350

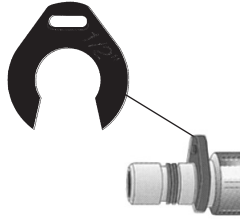


→ ← SAE 100R1/R2

**Slangsok
Raccord femelle pour flexible
Hose socket
Steckbuchse für Schlauch**

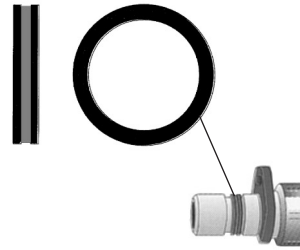
DN		WP BAR	WEO Size	ØA	B	C	ØD	F	Fe/Zn/YP REF.
INCH	MM								
1/4	6	350	1/4"	10	62	33	4,5	19	8350-1-04-04
3/8	10	350	3/8"	13	66	36	7	22	8350-1-06-06
1/2	12	350	1/2"	16	67	36	9,5	27	8350-1-08-08
3/4	20	350	3/4"	23	87	48	15	32	8350-1-12-12
1	25	250	1"	30	105	58,5	21	41	8350-1-16-16

8360



Borgclip
Languette d'arrêt
Stop clip
Montageanschlag

8361

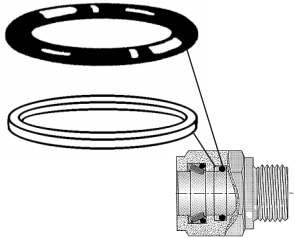


Deblokkeerring
Bague de déverrouillage
Unlocking ring
Demontiering

WEO Size									Fe/Zn/YP REF.
1/4"									8360-04
3/8"									8360-06
1/2"									8360-08
3/4"									8360-12
1"									8360-16

WEO Size									Fe/Zn/YP REF.
1/4"									8361-04
3/8"									8361-06
1/2"									8361-08
3/4"									8361-12
1"									8361-16

8366

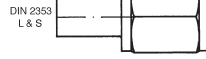


O-ring + steuring
Joint torique + baque anti extrusion
O-ring + support ring
O-Ring und Stützring

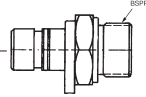
WEO Size									Fe/Zn/YP REF.
1/4"									8366-OR-04
3/8"									8366-OR-06
1/2"									8366-OR-08
3/4"									8366-OR-12
1"									8366-OR-16



REF. 8355
 REF. 8356



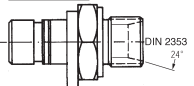
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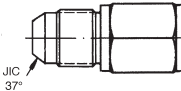
REF. 8353
 REF. 8354



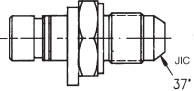
REF. 8333
 REF. 8334



REF. 8357

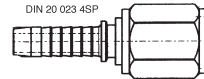


REF. 8337



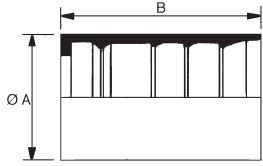
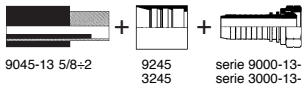
REF. 8351-1

DIN 20 023 4SP



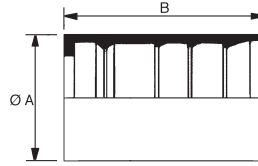
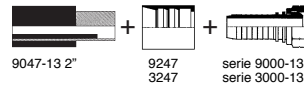
← WEO PLUG

ATZ Aandrijftechniek B.V. (026-3112611)



9245-13*
3245-13*

Pershuls 4SH/R15
Jupe de sertissage 4SH/R15
Crimp socket 4SH/R15
Pressfassung 4SH/R15

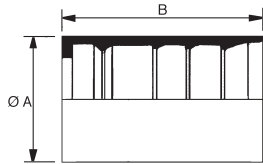
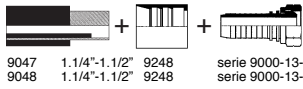


9247-13*
3247-13*

Pershuls R13
Jupe de sertissage R13
Crimp socket R13
Pressfassung R13

DN				Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	REF.	REF.
5/8	15	34	57,5	9245-13-010	3245-13-12
3/4	20	38	60	9245-13-012	3245-13-16
1	25	46	74,5	9245-13-016	3245-13-20
1.1/4	32	55	88	9245-13-020	3245-13-24
1.1/2	40	62	94	9245-13-024	3245-13-32
2	50	78	99	9245-13-032	

DN		9247-13		Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	REF.	REF.
2	50	78	99	9247-13-032	3247-13-32



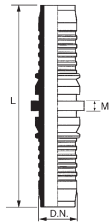
9248-13*
3248-13*

Pershuls R13/R15
Jupe de sertissage R13/R15
Crimp socket R13/R15
Pressfassung R13/R15

9

DN				Fe/Zn/YP	AISI 316 Ti
INCH	MM	Ø A	B	REF.	REF.
1.1/4	32	63	88	9248-13-020	3248-13-20
1.1/2	40	70	94,5	9248-13-024	9248-13-24

ATZ Aandrijftechniek B.V. (026-3112611)

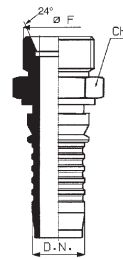


9500-13*



**Verbindingskoppeling
Union double
Connecting coupling
Verbindungsniipel**

DN		L	M	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	150	10	9500-13-12	
1	25	160	10	9500-13-16	
1.1/4	32	180	10	9500-13-20	
1.1/2	40	190	10	9500-13-24	
2	50	190	10	9500-13-32	



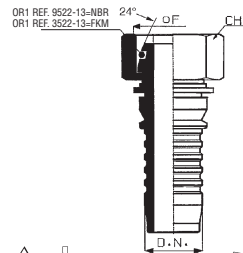
9504-13* 3504-13*

CES

24° DIN 3861-W → ← 24° DIN 3861-A/B
24° DIN 3865 OR-seal

**Buitendraad metrisch
Filetage mâle métrique
Male thread metric
Aussengewinde metrisch**

DN		Ø	Ø F	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	20S	M30x2	32	9504-13-20-12	
3/4	20	25S	M36x2	36	9504-13-25-12	3504-13-25-12
1	25	30S	M42x2	46	9504-13-30-16	3504-13-30-16
1.1/4	32	38S	M52x2	55	9504-13-38-20	3504-13-38-20



9522-13* 3522-13*

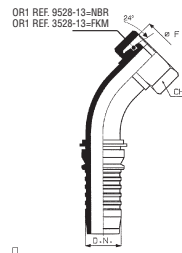
DKOS

24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

**Wartel metrisch
Tournant métrique
Swivel metric
Überwurfmutter metrisch**



DN		Ø	Ø F	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	20S	M30x2	36	9522-13-20-12	
3/4	20	25S	M36x2	46	9522-13-25-12	3522-13-25-12
1	25	30S	M42x2	50	9522-13-30-16	3522-13-30-16
1.1/4	32	38S	M52x2	60	9522-13-38-20	3522-13-38-20



9528-13* 3528-13*

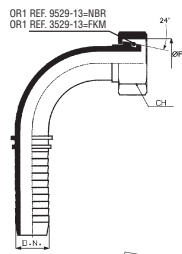
DKOS-45

24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

**Wartel metrisch 45°
Tournant métrique 45°
Swivel metric 45°
Überwurfmutter metrisch 45°**



DN		Ø	Ø F	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	20S	M30x2	36	9528-13-20-12	
3/4	20	25S	M36x2	46	9528-13-25-12	3528-13-25-12
1	25	30S	M42x2	50	9528-13-30-16	3528-13-30-16
1.1/4	32	38S	M52x2	60	9528-13-38-20	3528-13-38-20



9529-13* 3529-13*

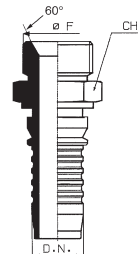
DKOS-90

24° OR-seal DIN 3865-B → ← 24° DIN 3861-W

**Wartel metrisch 90°
Tournant métrique 90°
Swivel metric 90°
Überwurfmutter metrisch 90°**



DN		Ø	Ø F	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	20S	M30x2	36	9529-13-20-12	
3/4	20	25S	M36x2	46	9529-13-25-12	3529-13-25-12
1	25	30S	M42x2	50	9529-13-30-16	3529-13-30-16
1.1/4	32	38S	M52x2	60	9529-13-38-20	3529-13-38-20



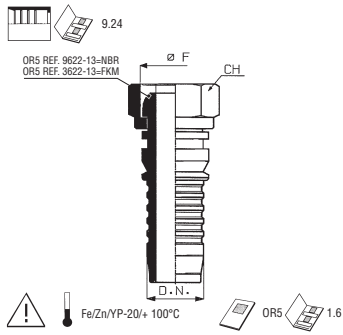
9600-13*

AGR

60° → ← Globeseal DIN 3863
Flatseal → ← Flatseal

**Buitendraad BSPP
Filetage mâle BSPP
Male thread BSPP
Aussengewinde BSPP**

DN		Ø F	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	G3/4	32	9600-13-12-12	
1	25	G1	41	9600-13-16-16	
1.1/4	32	G1.1/4	50	9600-13-20-20	
1.1/2	40	G1.1/2	55	9600-13-24-24	
2	50	G2	70	9600-13-32-32	

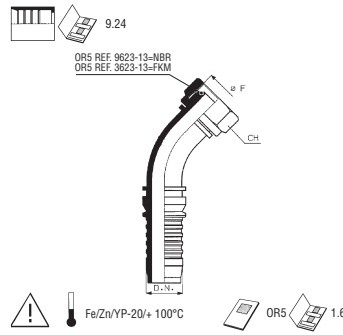


9622-13* 3622-13*

DKOR

60° OR ↔ 60° DIN 3863

**Wartel BSPP
Tournant BSPP
Swivel BSPP
Überwurfmutter BSPP**



9623-13* 3623-13*

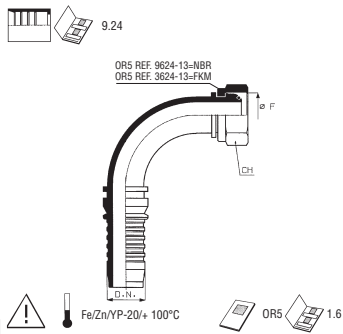
DKOR-45

60° OR ↔ 60° DIN 3863

**Wartel BSPP 45°
Tournant BSPP 45°
Swivel BSPP 45°
Überwurfmutter BSPP 45°**

DN		Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	G3/4	32	9622-13-12-012	3622-13-12-12
3/4	20	G1	41		3622-13-16-12
1	25	G1	41	9622-13-16-016	3622-13-16-16
1.1/4	32	G1.1/4	50	9622-13-20-020	3622-13-20-20
1.1/2	40	G1.1/2	55	9622-13-24-024	3622-13-24-24
2	50	G2	70	9622-13-32-032	3622-13-32-32

DN		Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	G3/4	32	9623-13-12-012	3623-13-12-12
1	25	G1	41	9623-13-16-016	3623-13-16-16
1.1/4	32	G1.1/4	50	9623-13-20-020	3623-13-20-20
1.1/2	40	G1.1/2	55	9623-13-24-024	3623-13-24-24
2	50	G2	70	9623-13-32-032	3623-13-32-32

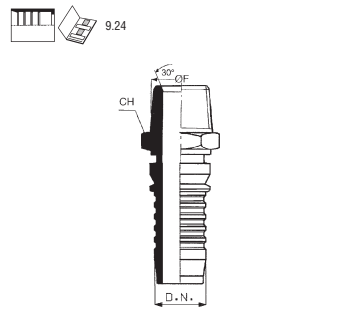


9624-13* 3624-13*

DKOR-90

60° OR ↔ 60° DIN 3863

**Wartel BSPP 90°
Tournant BSPP 90°
Swivel BSPP 90°
Überwurfmutter BSPP 90°**



9700-13* 3700-13*

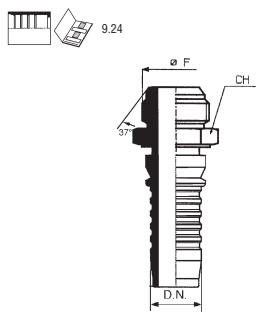
AGN

Threadseal 30° ↔ Threadseal 30°
30° ↔ 30° NPSM

**Buitendraad NPTF
Filetage mâle NPTF
Male thread NPTF
Aussengewinde NPTF**

DN		Ø F BSPP	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	G3/4	32	9624-13-12-012	3624-13-12-12
3/4	20	G1	41		3624-13-16-12
1	25	G1	41	9624-13-16-016	3624-13-16-16
1.1/4	32	G1.1/4	50	9624-13-20-020	3624-13-20-20
1.1/2	40	G1.1/2	55	9624-13-24-024	3624-13-24-24
2	50	G2	70	9624-13-32-032	3624-13-32-32

DN		Ø F NPTF	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	3/4	27	9700-13-12-12	3700-13-12-12
1	25	1	36	9700-13-16-16	3700-13-16-16
1.1/4	32	1.1/4	46	9700-13-20-20	3700-13-20-20
1.1/2	40	1.1/2	50	9700-13-24-24	3700-13-24-24
2	50	2	65	9700-13-32-32	3700-13-32-32

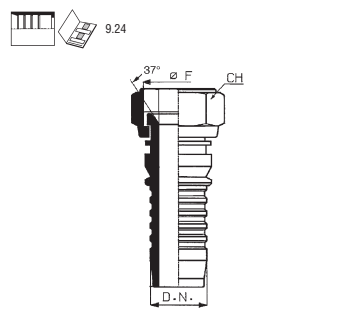


9701-13*

AGJ

37° JIC

**Buitendraad UN
Filetage mâle UN
Male thread UN
Aussengewinde UN**



9719-13*

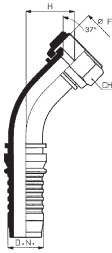
DKJ

37° JIC

**Wartel UN
Tournant UN
Swivel UN
Überwurfmutter UN**

DN		Ø F UN	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	1.1/16-12	27	9701-13-12-12	
1	25	1.5/16-12	36	9701-13-16-16	
1.1/4	32	1.5/8-12	46	9701-13-20-20	
1.1/2	40	1.7/8-12	50	9701-13-24-24	
2	50	2.1/2-12	65	9701-13-32-32	

DN		Ø F UN	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM				
3/4	20	1.1/16-12	32	9719-13-12-12	
1	25	1.5/16-12	41	9719-13-16-16	
1.1/4	32	1.5/8-12	50	9719-13-20-20	
1.1/2	40	1.7/8-12	55	9719-13-24-24	
2	50	2.1/2-12	75	9719-13-32-32	



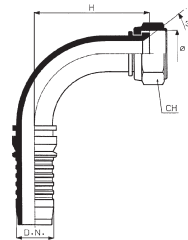
9720-13*

DKJ-45

37° JIC

Wartel UN 45°
Tournant UN 45°
Swivel UN 45°
Überwurfmutter UN 45°

DN		Ø DIN 2353	Ø F UN	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20		1.1/16-12	32	9720-13-12-12	
1	25		1.5/16-12	41	9720-13-16-16	
1.1/4	32		1.5/8-12	50	9720-13-20-20	
1.1/2	40		1.7/8-12	55	9720-13-24-24	
2	50		2.1/2-12	70	9720-13-32-32	



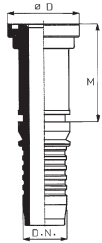
9721-13*

DKJ-90

37° JIC

Wartel UN 90°
Tournant UN 90°
Swivel UN 90°
Überwurfmutter UN 90°

DN		Ø DIN 2353	Ø F UN	CH	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20		1.1/16-12	32	9721-13-12-12	
1	25		1.5/16-12	41	9721-13-16-16	
1.1/4	32		1.5/8-12	50	9721-13-20-20	
1.1/2	40		1.7/8-12	55	9721-13-24-24	
2	50		2.1/2-12	70	9721-13-32-32	



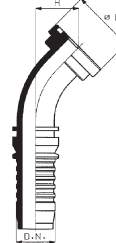
9770-13* 3770-13*

FL3

SAE J518-3000 PSI

SAE flensaansluiting
Embout à bride SAE
SAE flange connection
SAE Flansch-Schulter

DN		SAE	M	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	54,5	38	9770-13-12-12	
3/4	20	1"	57,5	44,5	9770-13-16-12	
1	25	1"	61,5	44,5	9770-13-16-16	
1	25	1.1/4"	64,5	50,8	9770-13-20-16	
1.1/4	32	1.1/4"	68,5	50,8	9770-13-20-20	
1.1/4	32	1.1/2"	71,5	60,3	9770-13-24-20	3770-13-20-20
1.1/2	40	1.1/2"	75	60,3	9770-13-24-24	3770-13-24-24
1.1/2	40	2"	78	71,4	9770-13-32-24	3770-13-32-24
2	50	2"	79,5	71,4	9770-13-32-32	3770-13-32-32



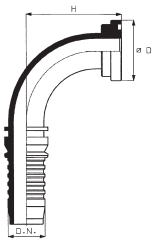
9773-13* 3773-13*

FL3-45

SAE J518-3000 PSI

SAE flensaansluiting 45°
Embout à bride SAE 45°
SAE flange connection 45°
SAE Flansch-Schulter 45°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	27,4	38	9773-13-12-12	
3/4	20	1"	29,5	44,5	9773-13-16-12	
1	25	1"	28,6	44,5	9773-13-16-16	
1	25	1.1/4"	30,4	50,8	9773-13-20-16	
1.1/4	32	1.1/4"	34,5	50,8	9773-13-20-20	
1.1/4	32	1.1/2"	37,5	60,3	9773-13-24-20	3773-13-16-16
1.1/2	40	1.1/2"	41,5	60,3	9773-13-24-24	3773-13-24-24
1.1/2	40	2"	55,5	71,4	9773-13-32-24	3773-13-32-24
2	50	2"	58,5	71,4	9773-13-32-32	3773-13-32-32



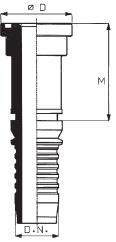
9776-13* 3776-13*

FL3-90

SAE J518-3000 PSI

SAE flensaansluiting 90°
Embout à bride SAE 90°
SAE flange connection 90°
SAE Flansch-Schulter 90°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	58	38	9776-13-12-12	
3/4	20	1"	61	44,5	9776-13-16-12	
1	25	1"	67	44,5	9776-13-16-16	
1	25	1.1/4"	69,5	50,8	9776-13-20-16	
1.1/4	32	1.1/4"	79,5	50,8	9776-13-20-20	
1.1/4	32	1.1/2"	86,7	60,3	9776-13-24-20	3776-13-20-20
1.1/2	40	1.1/2"	99	60,3	9776-13-24-24	3776-13-24-24
1.1/2	40	2"	100	71,4	9776-13-32-24	3776-13-32-24
2	50	2"	122,5	71,4	9776-13-32-32	3776-13-32-32



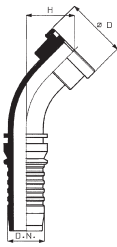
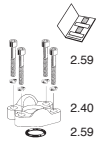
9777-13* 3777-13*

FL6

SAE J518-6000 PSI

SAE flensaansluiting
Embout à bride SAE
SAE flange connection
SAE Flansch-Schulter

DN		SAE	M	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	62,5	41,3	9777-13-12-12	
3/4	20	1"	67	47,6	9777-13-16-12	
1	25	1"	72,5	47,6	9777-13-16-16	
1	25	1.1/4"	77	54	9777-13-20-16	
1.1/4	32	1.1/4"	82,5	54	9777-13-20-20	
1.1/4	32	1.1/2"	87	63,5	9777-13-24-20	3777-13-20-20
1.1/2	40	1.1/2"	92	63,5	9777-13-24-24	3777-13-24-24
1.1/2	40	2"	96,5	79,4	9777-13-32-24	3777-13-32-24
2	50	2"	98	79,4	9777-13-32-32	3777-13-32-32



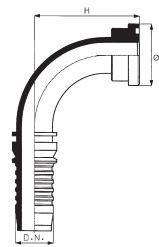
9780-13* 3780-13*

FL6-45

SAE J518-6000 PSI

SAE flensaansluiting 45°
Embout à bride SAE 45°
SAE flange connection 45°
SAE Flansch-Schulter 45°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	30,2	41,3	9780-13-12-12	3780-13-12-12
3/4	20	1"	34,4	47,6	9780-13-16-12	
1	25	1"	33,6	47,6	9780-13-16-16	3780-13-16-16
1	25	1.1/4"	38,5	54	9780-13-20-16	
1.1/4	32	1.1/4"	41,5	54	9780-13-20-20	3780-13-20-20
1.1/4	32	1.1/2"	47,5	63,5	9780-13-24-20	
1.1/2	40	1.1/2"	49	63,5	9780-13-24-24	3780-13-24-24
1.1/2	40	2"	61	79,4	9780-13-32-24	
2	50	2"	64,5	79,4	9780-13-32-32	3780-13-32-32



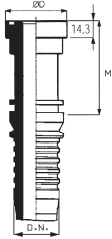
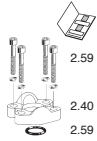
9783-13* 3783-13*

FL6-90

SAE J518-6000 PSI

SAE flensaansluiting 90°
Embout à bride SAE 90°
SAE flange connection 90°
SAE Flansch-Schulter 90°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	62	41,3	9783-13-12-12	3783-13-12-12
3/4	20	1"	68	47,6	9783-13-16-12	
1	25	1"	74	47,6	9783-13-16-16	3783-13-16-16
1	25	1.1/4"	81	54	9783-13-20-16	
1.1/4	32	1.1/4"	92,7	54	9783-13-20-20	3783-13-20-20
1.1/4	32	1.1/2"	101,2	63,5	9783-13-24-20	
1.1/2	40	1.1/2"	110	63,5	9783-13-24-24	3783-13-24-24
1.1/2	40	2"	126	79,4	9783-13-32-24	
2	50	2"	141	79,4	9783-13-32-32	3783-13-32-32

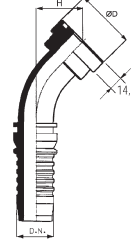


9787-13*

FL-TYPE CAT

CAT flensaansluiting
Embout à bride CAT
CAT flange connection
CAT Flansch-Schulter

DN		SAE	M	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	68	41,3	9787-13-12-12	
3/4	20	1"	71,5	47,6	9787-13-16-12	
1	25	1"	76	47,6	9787-13-16-16	
1	25	1.1/4"	81	54	9787-13-20-16	
1.1/4	32	1.1/4"	86,5	54	9787-13-20-20	
1.1/4	32	1.1/2"	88,5	63,5	9787-13-24-20	
1.1/2	40	1.1/2"	93,5	63,5	9787-13-24-24	

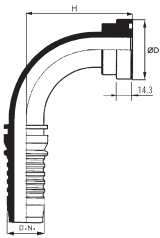
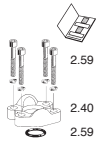


9790-13*

FL-TYPE CAT-45

CAT flensaansluiting 45°
Embout à bride CAT 45°
CAT flange connection 45°
CAT Flansch-Schulter 45°

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	34	41,3	9790-13-12-12	
3/4	20	1"	37,5	47,6	9790-13-16-12	
1	25	1"	36,5	47,6	9790-13-16-16	
1	25	1.1/4"	41,5	54	9790-13-20-16	
1.1/4	32	1.1/4"	44,5	54	9790-13-20-20	
1.1/4	32	1.1/2"	48,5	63,5	9790-13-24-20	
1.1/2	40	1.1/2"	51	63,5	9790-13-24-24	



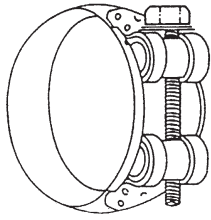
9793-13*

FL-TYPE CAT-90

CAT flensaansluiting 90°
Embout à bride CAT 90°
CAT flange connection 90°
CAT Flansch-Schulter 90°

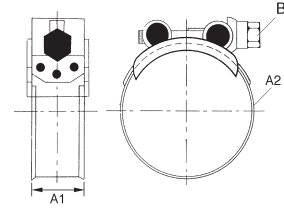
DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					
3/4	20	3/4"	67,5	41,3	9793-13-12-12	
3/4	20	1"	72,5	47,6	9793-13-16-12	
1	25	1"	78,5	47,6	9793-13-16-16	
1	25	1.1/4"	85	54	9793-13-20-16	
1.1/4	32	1.1/4"	97	54	9793-13-20-20	
1.1/4	32	1.1/2"	103	63,5	9793-13-24-20	
1.1/2	40	1.1/2"	112	63,5	9793-13-24-24	


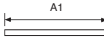
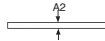
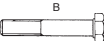

DN		SAE	H	ØD	Fe/Zn/YP REF.	AISI 316 Ti REF.
INCH	MM					

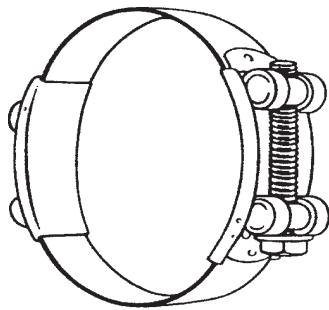


8459-1
3459-1

Slangklem
Collier
Hose clamp
Schlauchschelle

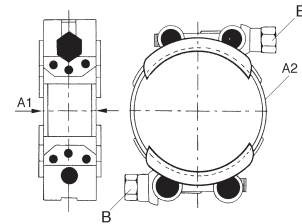



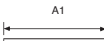
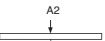
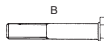

 mm	 mm	 mm		 N cm	Fe/Zn REF.	AISI 302 REF.
19-21	23	1,2	M8	140	8459-1-021	
26-28	23	1,2	M8	140	8459-1-026	
29-31	23	1,2	M8	140	8459-1-029	3459-1-029
32-35	23	1,2	M8	140	8459-1-032	3459-1-032
36-39	23	1,2	M8	140	8459-1-036	3459-1-036
40-43	23	1,2	M8	140	8459-1-040	3459-1-040
44-47	23	1,2	M8	140	8459-1-044	3459-1-044
48-51	23	1,2	M8	140	8459-1-048	3459-1-048
52-55	23	1,2	M8	140	8459-1-052	3459-1-052
56-59	23	1,2	M8	180	8459-1-056	3459-1-056
60-63	23	1,2	M8	180	8459-1-060	3459-1-060
64-67	23	1,2	M8	180	8459-1-064	3459-1-064
68-73	23	1,2	M8	180	8459-1-068	



8459-2

Slangklem
Collier
Hose clamp
Schlauchschelle

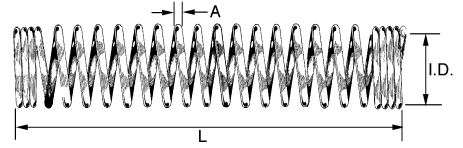


 mm	 mm	 mm		 N cm	Fe/Zn REF.	AISI 302 REF.
68-73	30	1,7	M10 (2x)	700	8459-2-068	
74-79	30	1,7	M10 (2x)	700	8459-2-074	
80-85	30	1,7	M10 (2x)	700	8459-2-080	
86-91	30	1,7	M10 (2x)	700	8459-2-086	
92-97	30	1,7	M10 (2x)	700	8459-2-092	
98-103	30	1,7	M10 (2x)	700	8459-2-098	
104-112	30	1,7	M10 (2x)	700	8459-2-104	
113-121	30	1,7	M10 (2x)	700	8459-2-113	
122-130	30	1,7	M10 (2x)	700	8459-2-122	

8460



Steunveer
Ressort de supportage
Stiffening spring
Knickschutzwedel



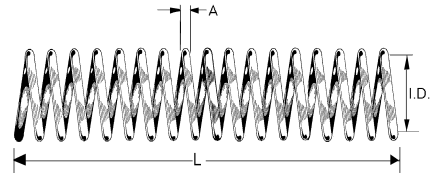
mm	Ø A mm																				L mm	Fe/Zn REF.		
		8007	8010	8008, 8011 8028, 8030	8020	8021 8031	8029	8090	8106-3	8106-6	8110-7	8111-1	8209-8 8210-4	9041	9045	9047	9048	9107	9110	9111			9112	
17.0	2,5	04	04	04																			200	8460-17
18.0	2,5		05	05		04	04																200	8460-18
20.0	2,5	05	06	06		05	05																200	8460-20
22.0	2,5	06				06	06																200	8460-22
24.0	2,5	08	08	08			08																200	8460-24
26.0	3,0					08			08										06				250	8460-26
28.0	3,0	10	10	10			10												08			04	250	8460-28
31.0	3,5	12	12	12		10	12		10												08		250	8460-31
34.0	3,5					12			12													06	250	8460-34
37.0	3,5	16	16							12									12				300	8460-37
40.0	3,5			16		16	16		16													12	300	8460-40
44.0	3,5									16													300	8460-44
48.0	3,5	20	20	20						20													300	8460-48
52.0	3,5					20			20														300	8460-52
57.0	3,5	24	24	24		24				24													300	8460-57
62.0	3,5																						300	8460-62
68.0	3,5	32	32	32		32				32													300	8460-68
72.0	3,5																						300	8460-72

9

8461



Beschermingspiraal
Ressort de protection
Spring guard
Schlauchschrundspirale



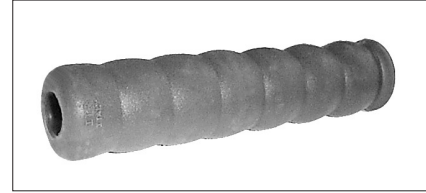
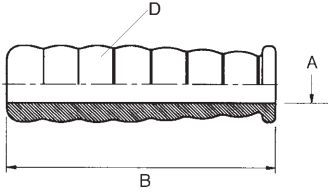
mm	Ø A mm																				L m	Fe/Zn REF.		
		8007	8010	8008, 8011 8028, 8030	8020	8021 8031	8029	8090	8106-3	8106-6	8110-7	8209-8 8210-4	9041	9045	9047	9048	9107	9110	9111	9112				
17.0	2,5	04	04	04																			10	8461-17
18.0	2,5		05	05		04	04																10	8461-18
20.0	2,5	05	06	06		05	05																10	8461-20
22.0	2,5	06				06	06																10	8461-22
24.0	2,5	08	08	08			08																10	8461-24
26.0	3,0					08			08														10	8461-26
28.0	3,0	10	10	10			10																10	8461-28
31.0	3,5	12	12	12		10	12		10														10	8461-31
34.0	3,5					12			12														10	8461-34
37.0	3,5	16	16							12													10	8461-37
40.0	3,5			16		16	16		16														10	8461-40
44.0	3,5									16													10	8461-44
48.0	3,5	20	20	20						20													10	8461-48
52.0	3,5					20			20														10	8461-52
57.0	3,5	24	24	24		24				24													10	8461-57
62.0	3,5																						10	8461-62
68.0	3,5	32	32	32		32				32													10	8461-68
72.0	3,5																						10	8461-72


8462



-40/+150°C

Rubberen handgreep
Poignée de caoutchouc
Rubber grip
Gummihandgriff



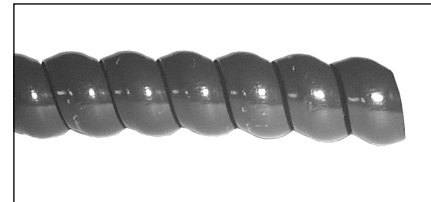
Ø A mm	B mm	D	→← REF. 			SR REF.
15	130	blauw/bleu/blue/blau	8032-004			8462-15BL
17	130		8032-005 / 8033-004			8462-17BL
18	130		8032-006 / 8033-005			8462-18BL
20	130		8033-006			8462-20BL
25	130		8033-008			8462-25BL


8463



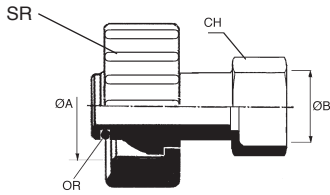
-20/+84°C

Kunststof beschermespiraal
Ressort plastic de protection
Plastic protective coil sleeve
Kunststof Schlauchschutzspirale



↔	→← REF. 								L m	PA REF.
	8007	8008, 8011 8028	8020	8010, 8021	9041 8029	9045 9048	9047 9050			
I.D. mm										
9,5		-003/-004							12	8463-09
13,0		-004/-005		-003					12	8463-13
14,0									12	8463-14
16,0	-004/-005	-006	-003/-004	-004/-005	-004				12	8463-16
19,0	-006	-008	-005/-006	-006	-006				12	8463-19
25,0	-008	-010	-008	-008	-008	-008	-010		12	8463-25
28,0	-010	-012	-010	-010	-010	-010	-010/-012		12	8463-28
35,0	-010	-012	-010	-010	-010	-010	-010/-012		12	8463-35
48,0	-012	-016/-020	-012	-012/-016	-012	-012	-012/-016		12	8463-48

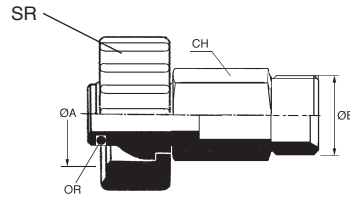




8470

METR. BSPP
O-ring Flatseal

Draadverloopadaptor
Adapteur de réduction
Reducing adaptor
Reduzieradaptor



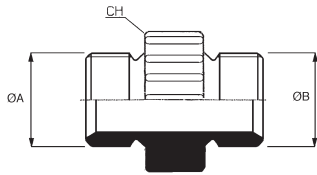
8471/8476

METR. BSPP
METR.

Draadverloopadaptor
Adapteur de réduction
Reducing adaptor
Reduzieradaptor

Ø A METR.	Ø B BSPP	CH		Fe/Zn/YP REF.
M22x1,5	G1/4	22		8470-22-04
M22x1,5	G3/8	22		8470-22-06

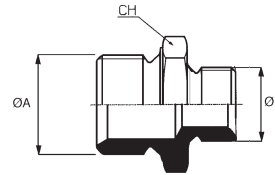
Ø A	Ø B BSPP METR.	CH	ØB DIN 2353	Fe/Zn/YP REF.
M22x1,5	G1/4	14		8471-22-04
M22x1,5	G3/8	19		8471-22-06
M22x1,5	G1/2	22		8471-22-08
M22x1,5	M16x1,5	19	10L	8471-22-16
M22x1,5	M16x1,5	19	12L	8471-22-18
M22x1,5	M22x1,5	22		8476-22



8472

METR. METR.

Adapter
Adapteur
Adaptor
Adapter



8473

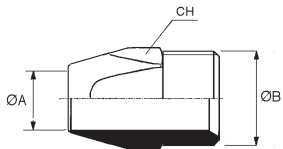
METR. BSPP
METR. METR.

Draadverloopadaptor
Adapteur de réduction
Reducing adaptor
Reduzieradaptor

9

Ø A	Ø B			Cu/Zn REF.
M22x1,5	M22x1,5			8472-22

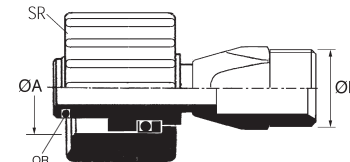
Ø A	Ø B BSPP METR.	CH		Cu/Zn REF.
M22x1,5	M22x1,5	22		8473-22
M22x1,5	G1/8	22		8473-22-02
M22x1,5	G1/4	22		8473-22-04
M22x1,5	G3/8	22		8473-22-06



8474

BSPP METR.

Draadverloopadaptor
Adapteur de réduction
Reducing adaptor
Reduzieradaptor



8475

METR. METR.

Draaibare koppeling
Raccord tournant
Rotary fitting
Drehverschraubung

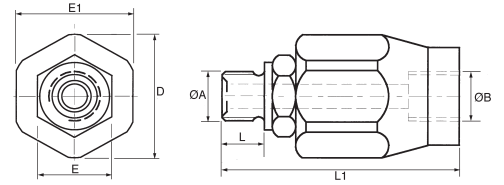
Ø A BSPP	Ø B	CH		Cu/Zn REF.
G1/8	M22x1,5	22		8474-22-02
G1/4	M22x1,5	22		8474-22-04
G3/8	M22x1,5	22		8474-22-06

Ø A	Ø B	CH		Fe/Zn/YP REF.
M22x1,5	M22x1,5	22		8475-22

8870-10

BSPP

Rechte draaibare koppeling
Raccord tournant
Straight rotary fitting
Gerade Drehverschraubung



Ø A* BSPP	Ø B* BSPP	L	L1	E	E1	D	1/ MIN.* max.	BAR* max.	1/ MIN. max. LPM	Fe/Zn/YP REF.
G1/4	G1/4	11	61	19	30	33	10	200	25	8870-10-04
G3/8	G3/8	14	66	24	34	37	10	200	38	8870-10-06
G1/2	G1/2	15	71	27	36	40	10	150	60	8870-10-08
G3/4	G3/4	19	80	34	45	49	10	150	100	8870-10-12
G1	G1	21	90	40	50	55	10	100	180	8870-10-16
G1.1/4	G1.1/4									☎ **
G1.1/2	G1.1/2									☎ **
G2	G2									☎ **

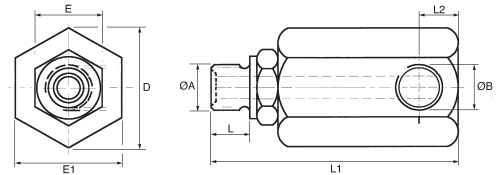
* ☎ > 10, > 200 bar

** ☎ ? = : max. , max. ,

8870-40

BSPP

Haakse draaibare koppeling
Raccord tournant coudé
Elbow rotary fitting
Winkeldrehverschraubung

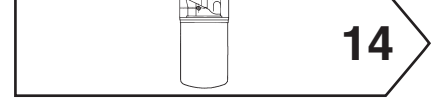
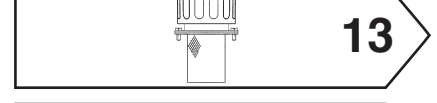
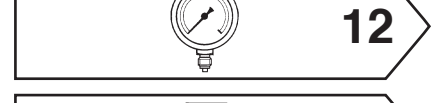
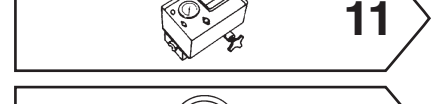
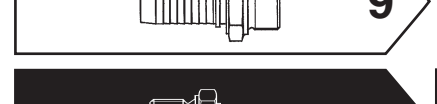
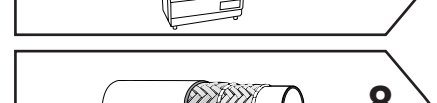
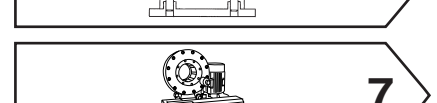
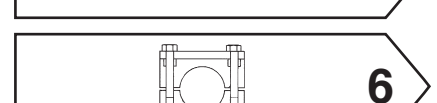
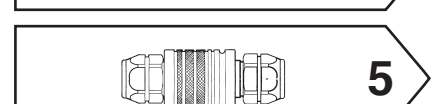
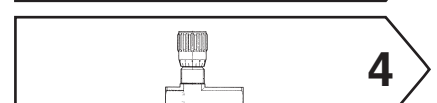
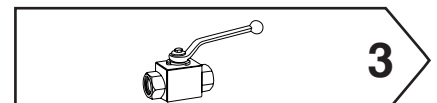
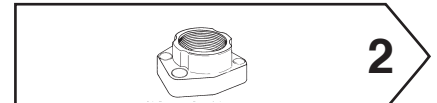
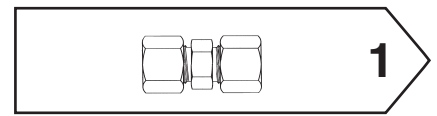
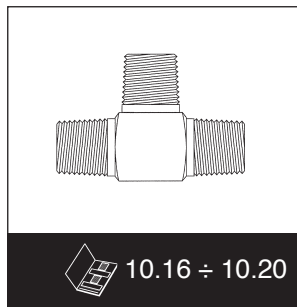
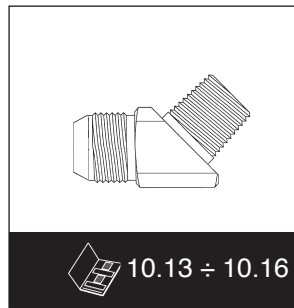
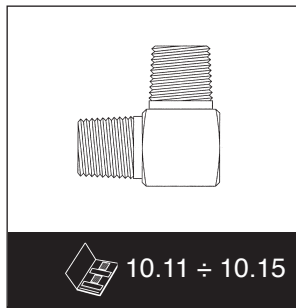
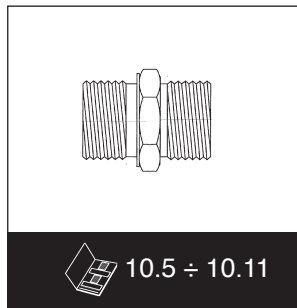
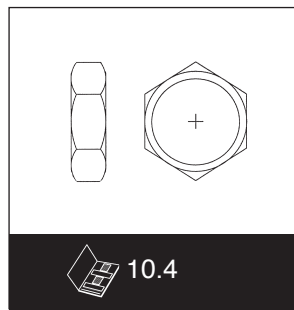
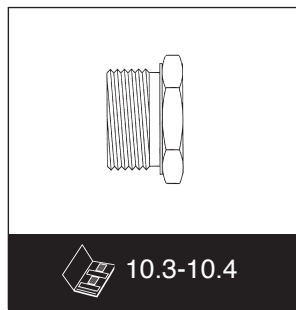
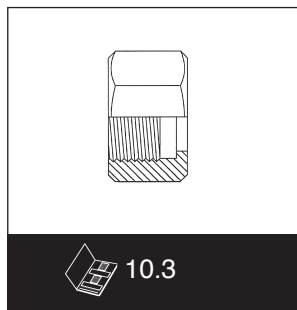


Ø A* BSPP	Ø B* BSPP	L	L1	L2	E	E1	D	1/ MIN.* max.	BAR* max.	1/ MIN. max. LPM	Fe/Zn/YP REF.
G1/4	G1/4	11	70	11	19	30	35	10	200	25	8870-40-04
G3/8	G3/8	14	77	13	24	34	39	10	200	38	8870-40-06
G1/2	G1/2	15	87	17,5	27	38	44	10	150	60	8870-40-08
G3/4	G3/4	19	100	19,5	34	50	58	10	150	100	8870-40-12
G1	G1	21	113	23	41	60	60	10	100	180	8870-40-16
G1.1/4	G1.1/4										☎ **
G1.1/2	G1.1/2										☎ **
G2	G2										☎ **

* ☎ > 10, > 200 bar

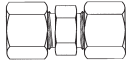
** ☎ ? = : max. , max. ,

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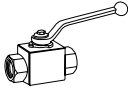
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2



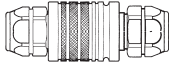
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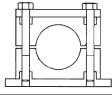
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5



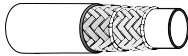
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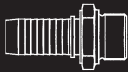
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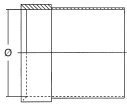
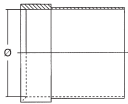
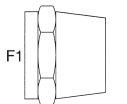
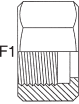
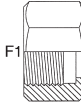
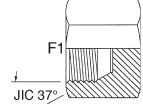
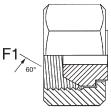
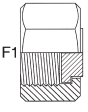
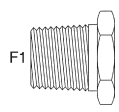
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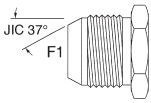
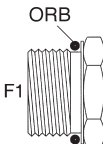
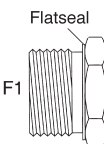
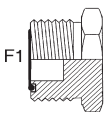
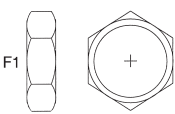
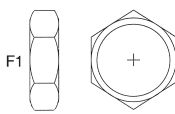
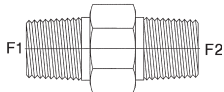
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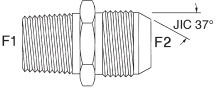
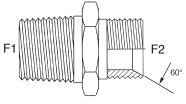
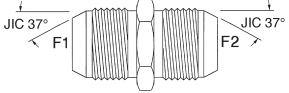
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8800-00 INCH		8800-00 MM		8802-07 Standard nut	
					
SAE 070115		SAE 070115		SAE 070111	
Ø INCH	Fe/Zn/YP REF.	Ø mm	Fe/Zn/YP REF.	F1 UN(F)	Fe/Zn/YP REF.
1/8	8800-00-02	10	8800-00-06-10	7/16-20UNF	8802-07-04
3/16	8800-00-03	12	8800-00-08-12	1/2-20UNF	8802-07-05
1/4	8800-00-04	16	8800-00-10-16	9/16-18UNF	8802-07-06
5/16	8800-00-05	20	8800-00-12-20	3/4-16UNF	8802-07-08
3/8	8800-00-06	25	8800-00-16-25	7/8-14UNF	8802-07-10
1/2	8800-00-08	30	8800-00-20-30	1.1/16-12UN	8802-07-12
5/8	8800-00-10	38	8800-00-24-38	1.3/16-12UN	8802-07-14
3/4	8800-00-12			1.5/16-12UN	8802-07-16
7/8	8800-00-14			1.5/8-12UN	8802-07-20
1	8800-00-16			1.7/8-12UN	8802-07-24
1.1/4	8800-00-20			2.1/2-12UN	8802-07-32
1.1/2	8800-00-24				
2	8800-00-32				
8803-07 UN(F)		8803-0B ORFS NUT		8805-07 UN(F)	
					
SAE 070110		SAE 520110		SAE 070112	
F1 UN(F)	Fe/Zn/YP REF.	F1 UN(F)(S)	Fe/Zn/YP REF.	F1 UN(F)	Fe/Zn/YP REF.
5/16-24UNF	8803-07-02	9/16-18UNF	8803-0B-04	5/16-24UNF	8805-07-02
3/8-24UNF	8803-07-03	11/16-16UN	8803-0B-06	3/8-24UNF	8805-07-03
7/16-20UNF	8803-07-04	13/16-16UN	8803-0B-08	7/16-20UNF	8805-07-04
1/2-20UNF	8803-07-05	1"-14UNS	8803-0B-10	1/2-20UNF	8805-07-05
9/16-18UNF	8803-07-06	1.3/16-12UN	8803-0B-12	9/16-18UNF	8805-07-06
3/4-16UNF	8803-07-08	1.3/16-12UN	8803-0B-14	3/4-16UNF	8805-07-08
7/8-14UNF	8803-07-10	1.5/16-12UN	8803-0B-16	7/8-14UNF	8805-07-10
1.1/16-12UN	8803-07-12	1.5/8-12UN	8803-0B-20	1.1/16-12UN	8805-07-12
1.3/16-12UN	8803-07-14	1.7/8-12UN	8803-0B-24	1.3/16-12UN	8805-07-14
1.5/16-12UN	8803-07-16	2.1/2-12UN	8803-0B-32	1.5/16-12UN	8805-07-16
1.5/8-12UN	8803-07-20			1.5/8-12UN	8805-07-20
1.7/8-12UN	8803-07-24			1.7/8-12UN	8805-07-24
2.1/2-12UN	8803-07-32			2.1/2-12UN	8805-07-32
8805-08 BSPP		8805-0B ORFS BLANKING CAP		8807-01 NPTF	
					
SAE 070110		SAE 520112		SAE 070112	
F1 BSPP	Fe/Zn/YP REF.	F1 UN(F)(S)	Fe/Zn/YP REF.	F1 NPTF	Fe/Zn/YP REF.
G1/4	8805-08-04	9/16-18UN	8805-0B-04	1/8NPTF	8807-01-02
G3/8	8805-08-06	11/16-16UN	8805-0B-06	1/4NPTF	8807-01-04
G1/2	8805-08-08	13/16-16UN	8805-0B-08	3/8NPTF	8807-01-06
G5/8	8805-08-10	1" -14UNS	8805-0B-10	1/2NPTF	8807-01-08
G3/4	8805-08-12	1.3/16-12UN	8805-0B-12	3/4NPTF	8807-01-12
G1	8805-08-16	1.7/16-12UN	8805-0B-16	1NPTF	8807-01-16
G1.1/4	8805-08-20	1.11/16-12UN	8805-0B-20	1.1/4NPTF	8807-01-20
G1.1/2	8805-08-24			1.1/2NPTF	8807-01-24
G2	8805-08-32			2NPTF	8807-01-32

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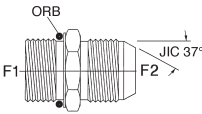
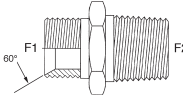
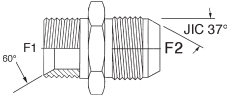
8807-02 UN(F)		8807-03 UN(F)/OR		8807-04 BSPP	
 <p>SAE 070109</p>					
F1 UN(F)	Fe/Zn/YP REF.	F1 UN(F)	Fe/Zn/YP REF.	F1 BSPP	Fe/Zn/YP REF.
7/16-20UNF 1/2-20UNF 9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN 1.3/16-12UN 1.5/16-12UN 1.5/8-12UN 1.7/8-12UN 2.1/2-12UN	8807-02-04 8807-02-05 8807-02-06 8807-02-08 8807-02-10 8807-02-12 8807-02-14 8807-02-16 8807-02-20 8807-02-24 8807-02-32	5/16-24UNF/OR 3/8-24UNF/OR 7/16-20UNF/OR 1/2-20UNF/OR 9/16-18UNF/OR 3/4-16UNF/OR 7/8-14UNF/OR 1.1/16-12UN/OR 1.3/16-12UN/OR 1.5/16-12UN/OR 1.5/8-12UN/OR 1.7/8-12UN/OR 2.1/2-12UN/OR	8807-03-02 8807-03-03 8807-03-04 8807-03-05 8807-03-06 8807-03-08 8807-03-10 8807-03-12 8807-03-14 8807-03-16 8807-03-20 8807-03-24 8807-03-32	G1/8 G1/4 G3/8 G1/2 G5/8 G3/4 G1 G1.1/4 G1.1/2 G2	8807-04-02 8807-04-04 8807-04-06 8807-04-08 8807-04-10 8807-04-12 8807-04-16 8807-04-20 8807-04-24 8807-04-32
8807-0A ORFS BLANKING PLUG		8809-04 BSPP Bulkhead locknut		8809-07 UN(F) Bulkhead locknut	
 <p>SAE 520109</p>		 <p>SAE 070118</p>		 <p>SAE 070118</p>	
F1 UN(F)(S)	Fe/Zn/YP REF.	F1 BSPP	Fe/Zn/YP REF.	F1 UN(F)	Fe/Zn/YP REF.
9/16-18UN 11/16-16UN 13/16-16UN 1" -14UNS 1.3/16-12UN 1.7/16-12UN 1.11/16-12UN	8807-0A-04 8807-0A-06 8807-0A-08 8807-0A-10 8807-0A-12 8807-0A-16 8807-0A-20	G1/4 G3/8 G1/2 G5/8 G3/4 G1	8809-04-04 8809-04-06 8809-04-08 8809-04-10 8809-04-12 8809-04-16	5/16-24UNF 3/8-24UNF 7/16-20UNF 1/2-20UNF 9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN 1.5/16-12UN 1.5/8-12UN 1.7/8-12UN 2.1/2-12UN	8809-07-02 8809-07-03 8809-07-04 8809-07-05 8809-07-06 8809-07-08 8809-07-10 8809-07-12 8809-07-16 8809-07-20 8809-07-24 8809-07-32
8810-11 NPTF					
 <p>SAE 140137</p>					
F1 NPTF	F2 NPTF	Fe/Zn/YP REF.	F1 NPTF	F2 NPTF	Fe/Zn/YP REF.
1/8NPTF 1/4NPTF 1/4NPTF 3/8NPTF 3/8NPTF 3/8NPTF 1/2NPTF 1/2NPTF 1/2NPTF 3/4NPTF 3/4NPTF 3/4NPTF 3/4NPTF 1NPTF 1NPTF	1/8NPTF 1/8NPTF 1/4NPTF 1/8NPTF 1/4NPTF 3/8NPTF 3/8NPTF 1/4NPTF 3/8NPTF 1/4NPTF 3/8NPTF 1/4NPTF 3/8NPTF 1/2NPTF 3/4NPTF 3/4NPTF	8810-11-02-02 8810-11-04-02 8810-11-04-04 8810-11-06-02 8810-11-06-04 8810-11-06-06 8810-11-08-04 8810-11-08-06 8810-11-08-08 8810-11-12-04 8810-11-12-06 8810-11-12-08 8810-11-12-12 8810-11-16-04 8810-11-16-06	1NPTF 1NPTF 1NPTF 1.1/4NPTF 1.1/4NPTF 1.1/4NPTF 1.1/2NPTF 1.1/2NPTF 1.1/2NPTF 1.1/2NPTF 1.1/2NPTF 1.1/2NPTF 2NPTF 2NPTF 2NPTF	1/2NPTF 3/4NPTF 1NPTF 3/4NPTF 1NPTF 1.1/4NPTF 3/4NPTF 1NPTF 1.1/4NPTF 1.1/2NPTF 1NPTF 1.1/4NPTF 1.1/2NPTF 1NPTF 1.1/4NPTF 1.1/2NPTF	8810-11-16-08 8810-11-16-12 8810-11-16-16 8810-11-20-12 8810-11-20-16 8810-11-20-20 8810-11-24-12 8810-11-24-16 8810-11-24-20 8810-11-24-24 8810-11-32-16 8810-11-32-20 8810-11-32-24 8810-11-32-32

ATZ Aandrijftechniek B.V. (026-3112611)

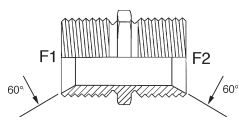
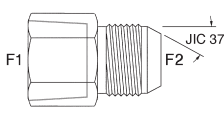

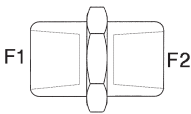
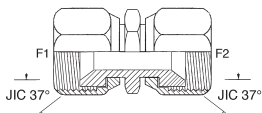
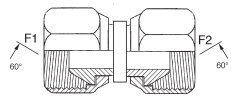
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 <p>SAE 070102</p>								
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1/8NPTF	5/16-24UNF	8810-12-02-02	R1/8	G1/4	8810-14-02-04	5/16-24UNF	5/16-24UNF	8810-22-02-02
1/8NPTF	3/8-24UNF	8810-12-02-03	R1/8	G3/8	8810-14-02-06	3/8-24UNF	3/8-24UNF	8810-22-03-03
1/8NPTF	7/16-20UNF	8810-12-02-04	R1/4	G1/8	8810-14-04-02	7/16-20UNF	5/16-24UNF	8810-22-04-02
1/8NPTF	1/2-20UNF	8810-12-02-05	R1/4	G3/8	8810-14-04-06	7/16-20UNF	7/16-20UNF	8810-22-04-04
1/8NPTF	9/16-18UNF	8810-12-02-06	R1/4	G1/2	8810-14-04-08	1/2-20UNF	7/16-20UNF	8810-22-05-04
1/8NPTF	3/4-16UNF	8810-12-02-08	R3/8	G1/8	8810-14-06-02	1/2-20UNF	1/2-20UNF	8810-22-05-05
1/4NPTF	7/16-20UNF	8810-12-04-04	R3/8	G1/4	8810-14-06-04	9/16-18UNF	7/16-20UNF	8810-22-06-04
1/4NPTF	1/2-20UNF	8810-12-04-05	R3/8	G1/2	8810-14-06-08	9/16-18UNF	1/2-20UNF	8810-22-06-05
1/4NPTF	9/16-18UNF	8810-12-04-06	R1/2	G1	8810-14-08-16	9/16-18UNF	9/16-18UNF	8810-22-06-06
1/4NPTF	3/4-16UNF	8810-12-04-08	R5/8	G1/2	8810-14-10-08	3/4-16UNF	7/16-20UNF	8810-22-08-04
1/4NPTF	7/8-14UNF	8810-12-04-10	R5/8	G5/8	8810-14-10-10	3/4-16UNF	1/2-20UNF	8810-22-08-05
3/8NPTF	7/16-20UNF	8810-12-06-04	R3/4	G1/2	8810-14-12-08	3/4-16UNF	9/16-18UNF	8810-22-08-06
3/8NPTF	1/2-20UNF	8810-12-06-05	R3/4	G1	8810-14-12-16	3/4-16UNF	3/4-16UNF	8810-22-08-08
3/8NPTF	9/16-18UNF	8810-12-06-06	R3/4	G1.1/4	8810-14-12-20	7/8-14UNF	7/16-20UNF	8810-22-10-04
3/8NPTF	3/4-16UNF	8810-12-06-08	R1	G3/4	8810-14-16-12	7/8-14UNF	9/16-18UNF	8810-22-10-06
3/8NPTF	7/8-14UNF	8810-12-06-10	R1	G1.1/4	8810-14-16-20	7/8-14UNF	3/4-16UNF	8810-22-10-08
3/8NPTF	1.1/16-12UN	8810-12-06-12	R1	G1.1/2	8810-14-16-24	7/8-14UNF	7/8-14UNF	8810-22-10-10
1/2NPTF	7/16-20UNF	8810-12-08-04	R1.1/4	G1	8810-14-20-16	1.1/16-12UN	7/16-20UNF	8810-22-12-04
1/2NPTF	1/2-20UNF	8810-12-08-05	R1.1/2	G1.1/4	8810-14-24-20	1.1/16-12UN	9/16-18UNF	8810-22-12-06
1/2NPTF	9/16-18UNF	8810-12-08-06	R1.1/2	G2	8810-14-24-32	1.1/16-12UN	3/4-16UNF	8810-22-12-08
1/2NPTF	3/4-16UNF	8810-12-08-08				1.1/16-12UN	7/8-14UNF	8810-22-12-10
1/2NPTF	7/8-14UNF	8810-12-08-10				1.1/16-12UN	1.1/16-12UN	8810-22-12-12
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1/2NPTF	1.5/16-12UN	8810-12-08-16				1.5/16-12UN	3/4-16UNF	8810-22-16-08
3/4NPTF	9/16-12UN	8810-12-12-06				1.5/16-12UN	7/8-14UNF	8810-22-16-10
3/4NPTF	3/4-16UNF	8810-12-12-08				1.5/16-12UN	1.1/16-12UN	8810-22-16-12
3/4NPTF	7/8-14UNF	8810-12-12-10				1.5/16-12UN	1.5/16-12UN	8810-22-16-16
3/4NPTF	1.1/16-12UN	8810-12-12-12				1.5/8-12UN	1.1/16-12UN	8810-22-20-12
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1NPTF	1.1/16-12UN	8810-12-16-12				1.7/8-12UN	1.7/8-12UN	8810-22-24-24
1NPTF	1.3/16-12UN	8810-12-16-14				2.1/2-12UN	2.1/2-12UN	8810-22-32-32
1NPTF	1.5/16-12UN	8810-12-16-16						
1NPTF	1.5/8-12UN	8810-12-16-20						
1NPTF	1.7/8-12UN	8810-12-16-24						
1.1/4NPTF	1.1/16-12UN	8810-12-20-12						
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1.1/4NPTF	2.1/2-12UN	8810-12-20-32						
1.1/2NPTF	1.1/16-12UN	8810-12-24-12						
1.1/2NPTF	1.5/16-12UN	8810-12-24-16						
1.1/2NPTF	1.5/8-12UN	8810-12-24-20						
1.1/2NPTF	1.7/8-12UN	8810-12-24-24						
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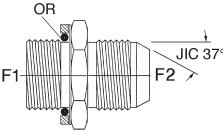
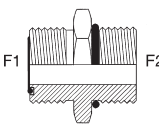
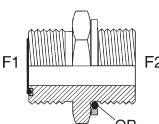
ATZ Aandrijftechniek B.V. (026-3112611)

8810-32 UN(F)/OR-UN(F)			8810-41 BSPP-NPTF			8810-42 BSPP-UN(F) JIC 37°		
								
F1 UN(F)/OR	F2 UN(F)	Fe/Zn/YP REF.	F1 BSPP	F2 NPTF	Fe/Zn/YP REF.	F1 BSPP	F2 UN(F)	Fe/Zn/YP REF.
5/16-24UNF/OR	5/16-24UNF	8810-32-02-02	G1/8	1/4NPTF	8810-41-02-04	G1/8	7/16-20UNF	8810-42-02-04
3/8-24UNF/OR	3/8-24UNF	8810-32-03-03	G1/4	1/8NPTF	8810-41-04-02	G1/8	1/2-20UNF	8810-42-02-05
3/8-24UNF/OR	7/16-20UNF	8810-32-03-04	G1/4	3/8NPTF	8810-41-04-06	G1/4	7/16-20UNF	8810-42-04-04
7/16-20UNF/OR	7/16-20UNF	8810-32-04-04	G1/4	1/2NPTF	8810-41-04-08	G1/4	1/2-20UNF	8810-42-04-05
7/16-20UNF/OR	3/4-16UNF	8810-32-04-08	G3/8	1/8NPTF	8810-41-06-02	G1/4	9/16-18UNF	8810-42-04-06
7/16-20UNF/OR	7/8-14UNF	8810-32-04-10	G3/8	1/4NPTF	8810-41-06-04	G1/4	3/4-16UNF	8810-42-04-08
1/2-20UNF/OR	7/16-20UNF	8810-32-05-04	G3/8	1/2NPTF	8810-41-06-08	G3/8	7/16-20UNF	8810-42-06-04
1/2-20UNF/OR	1/2-20UNF	8810-32-05-05	G1/2	1/4NPTF	8810-41-08-04	G3/8	1/2-20UNF	8810-42-06-05
1/2-20UNF/OR	9/16-18UNF	8810-32-05-06	G1/2	3/8NPTF	8810-41-08-06	G3/8	9/16-18UNF	8810-42-06-06
1/2-20UNF/OR	3/4-16UNF	8810-32-05-08	G1/2	3/4NPTF	8810-41-08-12	G3/8	3/4-16UNF	8810-42-06-08
9/16-18UNF/OR	7/16-20UNF	8810-32-06-04	G5/8	1/2NPTF	8810-41-10-08	G3/8	7/8-14UNF	8810-42-06-10
9/16-18UNF/OR	9/16-18UNF	8810-32-06-06	G5/8	3/4NPTF	8810-41-10-12	G3/8	1.1/16-12UN	8810-42-06-12
9/16-18UNF/OR	3/4-16UNF	8810-32-06-08	G3/4	1/4NPTF	8810-41-12-04	G1/2	7/16-20UNF	8810-42-08-04
9/16-18UNF/OR	7/8-14UNF	8810-32-06-10	G3/4	3/8NPTF	8810-41-12-06	G1/2	1/2-20UNF	8810-42-08-05
9/16-18UNF/OR	1.1/16-12UN	8810-32-06-12	G3/4	1/2NPTF	8810-41-12-08	G1/2	9/16-18UNF	8810-42-08-06
9/16-18UNF/OR	1.5/16-12UN	8810-32-06-16	G3/4	1NPTF	8810-41-12-16	G1/2	3/4-16UNF	8810-42-08-08
3/4-16UNF/OR	7/16-20UNF	8810-32-08-04	G1	1/2NPTF	8810-41-16-08	G1/2	7/8-14UNF	8810-42-08-10
3/4-16UNF/OR	9/16-18UNF	8810-32-08-06	G1	3/4NPTF	8810-41-16-12	G1/2	1.1/16-12UN	8810-42-08-12
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3/4-16UNF/OR	7/8-14UNF	8810-32-08-10	G1.1/4	1NPTF	8810-41-20-16	G5/8	9/16-20UNF	8810-42-10-06
3/4-16UNF/OR	1.1/16-12UN	8810-32-08-12	G1.1/4	1.1/2NPTF	8810-41-20-24	G5/8	3/4-16UNF	8810-42-10-08
3/4-16UNF/OR	1.5/16-12UN	8810-32-08-16	G1.1/2	1NPTF	8810-41-24-16	G5/8	7/8-14UNF	8810-42-10-10
7/8-14UNF/OR	7/16-20UNF	8810-32-10-04	G1.1/2	1.1/4NPTF	8810-41-24-20	G5/8	1.1/16-12UN	8810-42-10-12
7/8-14UNF/OR	9/16-18UNF	8810-32-10-06	G1.1/2	2NPTF	8810-41-24-32	G3/4	3/4-16UNF	8810-42-12-08
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7/8-14UNF/OR	7/8-14UNF	8810-32-10-10	G2	1.1/2NPTF	8810-41-32-24	G3/4	1.1/16-12UN	8810-42-12-12
7/8-14UNF/OR	1.1/16-12UN	8810-32-10-12				G3/4	1.3/16-12UN	8810-42-12-14
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7/8-14UNF/OR	1.5/16-12UN	8810-32-10-16				G1	3/4-16UNF	8810-42-16-08
1.1/16-12UN/OR	9/16-18UNF	8810-32-12-06				G1	1.1/16-12UN	8810-42-16-12
1.1/16-12UN/OR	3/4-16UNF	8810-32-12-08				G1	1.5/16-12UN	8810-42-16-16
1.1/16-12UN/OR	7/8-14UNF	8810-32-12-10				G1	1.5/8-12UN	8810-42-16-20
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1.1/16-12UN/OR	1.3/16-12UN	8810-32-12-14				G1.1/4	1.5/8-12UN	8810-42-20-20
1.1/16-12UN/OR	1.5/16-12UN	8810-32-12-16				G1.1/4	1.7/8-12UN	8810-42-20-24
1.1/16-12UN/OR	1.5/8-12UN	8810-32-12-20				G1.1/2	1.5/8-12UN	8810-42-24-20
1.3/16-12UN/OR	7/8-14UNF	8810-32-14-10				G1.1/2	1.7/8-12UN	8810-42-24-24
1.3/16-12UN/OR	1.1/16-12UN	8810-32-14-12				G2	2.1/2-12UN	8810-42-32-32
1.3/16-12UN/OR	1.3/16-12UN	8810-32-14-14						
1.3/16-12UN/OR	1.5/16-12UN	8810-32-14-16						
1.5/16-12UN/OR	9/16-18UNF	8810-32-16-06						
1.5/16-12UN/OR	3/4-16UNF	8810-32-16-08						
1.5/16-12UN/OR	7/8-14UNF	8810-32-16-10						
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1.7/8-12UN/OR	2.1/2-12UN	8810-32-24-32						
2.1/2-12UN/OR	1.7/8-12UN	8810-32-32-24						
2.1/2-12UN/OR	2.1/2-12UN	8810-32-32-32						

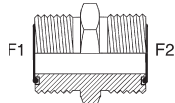
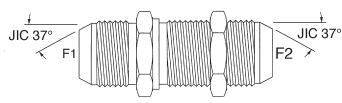
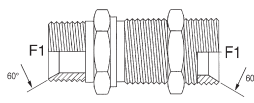
8874 10.19

8810-44 BSPP			8810-62 NPTF-UN(F)					
								
			SAE 070103					
F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	F1 NPTF	F2 UN(F)	Fe/Zn/YP REF.	F1 NPTF	F2 UN(F)	Fe/Zn/YP REF.
G1/8	G3/8	8810-44-02-06	1/8NPTF	5/16-24UNF	8810-62-02-02	1NPTF	1.1/16-12UN	8810-62-16-12
G1/4	G5/8	8810-44-04-10	1/8NPTF	3/8-24UNF	8810-62-02-03	1NPTF	1.5/16-12UN	8810-62-16-16
G1/4	G3/4	8810-44-04-12	1/8NPTF	7/16-20UNF	8810-62-02-04	1NPTF	1.5/8-12UN	8810-62-16-20
G1/4	G1	8810-44-04-16	1/8NPTF	1/2-20UNF	8810-62-02-05	1.1/4NPTF	1.5/8-12UN	8810-62-20-20
G3/8	G5/8	8810-44-06-10	1/8NPTF	9/16-18UNF	8810-62-02-06	1.1/2NPTF	1.7/8-12UN	8810-62-24-24
G3/8	G1	8810-44-06-16	1/4NPTF	3/8-24UNF	8810-62-04-03	2NPTF	2.1/2-12UN	8810-62-32-32
G1/2	G1.1/4	8810-44-08-20	1/4NPTF	7/16-20UNF	8810-62-04-04			
G5/8	G1	8810-44-10-16	1/4NPTF	1/2-20UNF	8810-62-04-05			
G1	G2	8810-44-16-32	1/4NPTF	9/16-18UNF	8810-62-04-06			
G1.1/2	G2	8810-44-24-32	1/4NPTF	3/4-16UNF	8810-62-04-08			
			1/4NPTF	7/8-14UNF	8810-62-04-10			
			3/8NPTF	7/16-20UNF	8810-62-06-04			
			3/8NPTF	1/2-20UNF	8810-62-06-05			
			3/8NPTF	9/16-18UNF	8810-62-06-06			
			3/8NPTF	3/4-16UNF	8810-62-06-08			
			3/8NPTF	7/8-14UNF	8810-62-06-10			
			1/2NPTF	7/16-20UNF	8810-62-08-04			
			1/2NPTF	9/16-18UNF	8810-62-08-06			
			1/2NPTF	3/4-16UNF	8810-62-08-08			
			1/2NPTF	7/8-14UNF	8810-62-08-10			
			1/2NPTF	1.1/16-12UN	8810-62-08-12			
			1/2NPTF	1.3/16-12UN	8810-62-08-14			
			3/4NPTF	3/4-16UNF	8810-62-12-08			
			3/4NPTF	7/8-14UNF	8810-62-12-10			
			3/4NPTF	1.1/16-12UN	8810-62-12-12			
			3/4NPTF	1.3/16-12UN	8810-62-12-14			
			3/4NPTF	1.5/16-12UN	8810-62-12-16			
								
8810-66 NPTF			8810-77 UN(F) JIC 37°			8810-88 BSPP		
								
SAE 140138								
F1 NPTF	F2 NPTF	Fe/Zn/YP REF.	F1 UN(F)(S) 37°	F2 UN(F)(S) 37°	Fe/Zn/YP REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.
1/8NPTF	1/8NPTF	8810-66-02-02	7/16"-20UNF	7/16"-20UNF	8810-77-04-04	G1/8	G1/8	8810-88-02-02
1/4NPTF	1/8NPTF	8810-66-04-02	9/16"-18UNF	9/16"-18UNF	8810-77-06-06	G1/4	G1/8	8810-88-04-02
1/4NPTF	1/4NPTF	8810-66-04-04	3/4"-16UNF	3/4"-16UNF	8810-77-08-08	G1/4	G1/4	8810-88-04-04
3/8NPTF	1/8NPTF	8810-66-06-02	1.1/16"-12UN	3/4"-16UNF	8810-77-12-08	G3/8	G1/8	8810-88-06-02
3/8NPTF	1/4NPTF	8810-66-06-04	1.1/16"-12UN	3/4"-16UNF	8810-77-12-12	G3/8	G1/4	8810-88-06-04
3/8NPTF	3/8NPTF	8810-66-06-06	1.5/16"-12UN	1.1/16"-12UN	8810-77-16-16	G3/8	G3/8	8810-88-06-06
3/8NPTF	1/8NPTF	8810-66-08-02		1.5/16"-12UN		G1/2	G1/4	8810-88-08-04
1/2NPTF	1/4NPTF	8810-66-08-04				G1/2	G3/8	8810-88-08-06
1/2NPTF	3/8NPTF	8810-66-08-06				G1/2	G1/2	8810-88-08-08
1/2NPTF	1/2NPTF	8810-66-08-08				G5/8	G3/8	8810-88-10-06
3/4NPTF	3/8NPTF	8810-66-12-06				G5/8	G1/2	8810-88-10-08
3/4NPTF	1/2NPTF	8810-66-12-08				G5/8	G5/8	8810-88-10-10
3/4NPTF	3/4NPTF	8810-66-12-12				G3/4	G1/4	8810-88-12-04
1NPTF	1/2NPTF	8810-66-16-08				G3/4	G3/8	8810-88-12-06
1NPTF	3/4NPTF	8810-66-16-12				G3/4	G1/2	8810-88-12-08
1NPTF	1NPTF	8810-66-16-16				G3/4	G5/8	8810-88-12-10
1.1/2NPTF	1NPTF	8810-66-20-16				G3/4	G3/4	8810-88-12-12
1.1/4NPTF	1.1/4NPTF	8810-66-20-20				G1	G3/8	8810-88-16-06
1.1/2NPTF	1.1/4NPTF	8810-66-24-20				G1	G1/2	8810-88-16-08
1.1/2NPTF	1.1/2NPTF	8810-66-24-24				G1	G5/8	8810-88-16-10
2NPTF	2NPTF	8810-66-32-32				G1	G3/4	8810-88-16-12
						G1	G1	8810-88-16-16
						G1.1/4	G3/4	8810-88-20-12
						G1.1/4	G1	8810-88-20-16
						G1.1/4	G1.1/4	8810-88-20-20
						G1.1/2	G1	8810-88-24-16
						G1.1/2	G1.1/4	8810-88-24-20
						G1.1/2	G1.1/2	8810-88-24-24
						G2	G1	8810-88-32-16
						G2	G1.1/4	8810-88-32-20
						G2	G1.1/2	8810-88-32-24
						G2	G2	8810-88-32-32

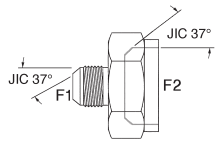
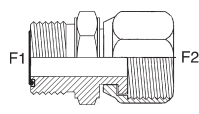
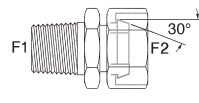
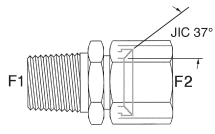
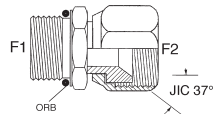
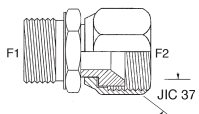
ATZ Aandrijftechniek B.V. (026-3112611)

8810-92 BSPP/OR-UN(F)			8810-A3 ORFS-UN(F)/OR			8810-A9 ORFS-BSPP/OR		
								
SAE 520120			SAE 520120			SAE 520120		
F1 BSPP/OR	F2 UN(F)	Fe/Zn/YP REF.	F1 UN(F)(S)	F2 UNF/OR	Fe/Zn/YP REF.	F1 UN(F)(S)	F2 BSPP/OR	Fe/Zn/YP REF.
G1/4/OR	7/16-20UNF	8810-92-04-04	9/16-18UNF	7/16-20UNF/OR	8810-A3-04-04	9/16-18UNF	G1/8/OR	8810-A9-04-02
G3/8/OR	9/16-20UNF	8810-92-06-06	9/16-18UNF	9/16-18UNF/OR	8810-A3-04-06	11/16-16UN	G1/4/OR	8810-A9-06-04
G1/2/OR	3/4-16UNF	8810-92-08-08	11/16-16UN	7/16-20UNF/OR	8810-A3-06-04	11/16-16UN	G3/8/OR	8810-A9-06-06
G1/2/OR	9/16"-20UNF	8810-92-08-06	11/16-16UN	9/16-18UNF/OR	8810-A3-06-06	13/16-16UN	G3/8/OR	8810-A9-08-06
G5/8/OR	7/8-14UNF	8810-92-10-10	11/16-16UN	3/4-16UNF/OR	8810-A3-06-08	13/16-16UN	G1/2/OR	8810-A9-08-08
G3/4/OR	7/8-14UNF	8810-92-12-10	13/16-16UN	9/16-18UNF/OR	8810-A3-08-06	1" -14UNS	G1/2/OR	8810-A9-10-08
G3/4/OR	1.5/16"-12UN	8810-92-12-16	13/16-16UN	3/4-16UNF/OR	8810-A3-08-08	1.3/16-12UN	G3/4/OR	8810-A9-12-12
G3/4/OR	1.1/16-12UN	8810-92-12-12	13/16-16UN	7/8-14UNF/OR	8810-A3-08-10	1.7/16-12UN	G1"/OR	8810-A9-16-16
G1/OR	1.5/16-12UN	8810-92-16-16	1" -14UNS	3/4-16UNF/OR	8810-A3-10-08			
G1.1/4/OR	1.5/8-12UN	8810-92-20-20	1" -14UNS	7/8-14UNF/OR	8810-A3-10-10			
G1.1/2/OR	1.7/8-12UN	8810-92-24-24	1" -14UNS	1.1/16-12UN/OR	8810-A3-10-12			
G2/OR	2.1/2-12UN	8810-92-32-32	1.3/16-12UN	1.1/16-12UN/OR	8810-A3-12-12			
			1.3/16-12UN	1.5/16-12UN/OR	8810-A3-12-16			
			1.7/16-12UN	1.1/16-12UN/OR	8810-A3-16-12			
			1.7/16-12UN	1.5/16-12UN/OR	8810-A3-16-16			
			1.7/16-12UN	1.5/8-12UN/OR	8810-A3-16-20			
			1.11/16-12UN	1.5/8-12UN/OR	8810-A3-20-20			

8810-AA ORFS			8811-22 UN(F)			8811-44 BSPP		
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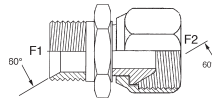
								
SAE 520101			SAE 070601			SAE 520101		

F1 UN(F)(S)	F2 UN(F)(S)	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.
9/16-18UNF	9/16-18UNF	8810-AA-04-04	7/16-20UNF	7/16-20UNF	8811-22-04-04	G1/4	G1/4	8811-44-04-04
11/16-16UN	9/16-18UNF	8810-AA-06-04	1/2-20UNF	1/2-20UNF	8811-22-05-05	G3/8	G3/8	8811-44-06-06
11/16-16UN	11/16-16UN	8810-AA-06-06	9/16-18UNF	9/16-18UNF	8811-22-06-06	G1/2	G1/2	8811-44-08-08
13/16-16UN	11/16-16UN	8810-AA-08-06	3/4-16UNF	3/4-16UNF	8811-22-08-08	G5/8	G5/8	8811-44-10-10
13/16-16UN	13/16-16UN	8810-AA-08-08	7/8-14UNF	7/8-14UNF	8811-22-10-10	G3/4	G3/4	8811-44-12-12
1" -14UNS	13/16-16UN	8810-AA-10-08	1.1/16-12UN	1.1/16-12UN	8811-22-12-12	G1	G1	8811-44-16-16
1" -14UNS	1" -14UNS	8810-AA-10-10	1.3/16-12UN	1.3/16-12UN	8811-22-14-14			
1.3/16-12UN	1" -14UNS	8810-AA-12-10	1.5/16-12UN	1.5/16-12UN	8811-22-16-16			
1.3/16-12UN	1.3/16-12UN	8810-AA-12-12	1.5/8-12UN	1.5/8-12UN	8811-22-20-20			
1.7/16-12UN	1.3/16-12UN	8810-AA-16-12	1.7/8-12UN	1.7/8-12UN	8811-22-24-24			
1.7/16-12UN	1.7/16-12UN	8810-AA-16-16	2.1/2-12UN	2.1/2-12UN	8811-22-32-32			
1.11/16-12UN	1.11/16-12UN	8810-AA-20-20						

8812-27 UN(F)			8812-AB ORFS-ORFS			8816-15 NPTF-NPSM		
								
SAE 070123			SAE 520181			SAE 140130		
F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 UN(S)	F2 UN(S)	Fe/Zn/YP REF.	F1 NPTF	F2 NPSM	Fe/Zn/YP REF.
7/16-20UNF	9/16-18UNF	8812-27-04-06	9/16-18UNF	13/16-16UN	8812-AB-04-08	1/8NPTF	1/8NPSM	8816-15-02-02
7/16-20UNF	3/4-16UNF	8812-27-04-08	9/16-18UNF	1" -14UNS	8812-AB-04-10	1/8NPTF	1/4NPSM	8816-15-02-04
7/16-20UNF	7/8-14UNF	8812-27-04-10	11/16-16UN	1.3/16-12UN	8812-AB-06-12	1/4NPTF	1/8NPSM	8816-15-04-02
7/16-20UNF	1.1/16-12UN	8812-27-04-12	13/16-16UN	1" -14UNS	8812-AB-08-10	1/4NPTF	1/4NPSM	8816-15-04-04
9/16-18UNF	3/4-16UNF	8812-27-06-08	13/16-16UN	1.3/16-12UN	8812-AB-08-12	1/4NPTF	3/8NPSM	8816-15-04-06
9/16-18UNF	7/8-14UNF	8812-27-06-10	13/16-16UN	1.7/16-12UN	8812-AB-08-16	3/8NPTF	1/4NPSM	8816-15-06-04
9/16-18UNF	1.1/16-12UN	8812-27-06-12	1" -14UNS	1.7/16-12UN	8812-AB-10-16	3/8NPTF	3/8NPSM	8816-15-06-06
9/16-18UNF	1.3/16-12UN	8812-27-06-14	1.3/16-12UN	1.11/16-12UN	8812-AB-12-20	3/8NPTF	1/2NPSM	8816-15-06-08
3/4-16UNF	7/8-14UNF	8812-27-08-10				1/2NPTF	1/4NPSM	8816-15-08-04
3/4-16UNF	1.1/16-12UN	8812-27-08-12				1/2NPTF	3/8NPSM	8816-15-08-06
3/4-16UNF	1.3/16-12UN	8812-27-08-14				1/2NPTF	1/2NPSM	8816-15-08-08
3/4-16UNF	1.5/16-12UN	8812-27-08-16				1/2NPTF	3/4NPSM	8816-15-08-12
7/8-14UNF	1.1/16-12UN	8812-27-10-12				3/4NPTF	1/2NPSM	8816-15-12-08
7/8-14UNF	1.3/16-12UN	8812-27-10-14				3/4NPTF	3/4NPSM	8816-15-12-12
7/8-14UNF	1.5/16-12UN	8812-27-10-16				3/4NPTF	1NPSM	8816-15-12-16
1.1/16-12UN	1.3/16-12UN	8812-27-12-14				1NPTF	3/4NPSM	8816-15-16-12
1.1/16-12UN	1.5/16-12UN	8812-27-12-16				1NPTF	1NPSM	8816-15-16-16
1.1/16-12UN	1.5/8-12UN	8812-27-12-20				1NPTF	1.1/4NPSM	8816-15-16-20
1.3/16-12UN	1.5/16-12UN	8812-27-14-16				1.1/4NPTF	1.1/4NPSM	8816-15-20-20
1.5/16-12UN	1.5/8-12UN	8812-27-16-20				1.1/4NPTF	1.1/2NPSM	8816-15-20-24
1.5/8-12UN	1.7/8-12UN	8812-27-20-24				1.1/2NPTF	1.1/4NPSM	8816-15-24-20
1.7/8-12UN	2.1/2-12UN	8812-27-24-32				1.1/2NPTF	1.1/2NPSM	8816-15-24-24
						2NPTF	2NPSM	8816-15-32-32
8816-17 NPTF-UN(F)			8816-37 UN(F)/OR - UN(F) JIC 37°			8816-47 BSPP - UN(F) JIC 37°		
								
F1 NPTF	F2 UN(F)	Fe/Zn/YP REF.	F1 UNF/OR	F2 UN(F) 37°	Fe/Zn/YP REF.	F1 BSPP	F2 UN(F)(S)	Fe/Zn/YP REF.
1/4NPTF	7/16-20UNF	8816-17-04-04	7/16-20UNF/OR	7/16-20UNF	8816-37-04-04	1/4"BSPP	7/16"-20UNF	8816-47-04-04
1/4NPTF	1/2-20UNF	8816-17-04-05	1/2-20UNF/OR	1/2-20UNF	8816-37-05-05	1/4"BSPP	1/2"-20UNF	8816-47-04-05
1/4NPTF	9/16-18UNF	8816-17-04-06	9/16-18UNF/OR	9/16-18UNF	8816-37-06-06	1/4"BSPP	9/16"-18UNF	8816-47-04-06
3/8NPTF	9/16-18UNF	8816-17-06-06	9/16-18UNF/OR	9/16-18UNF	8816-37-06-06	3/8"BSPP	9/16"-18UNF	8816-47-06-06
3/8NPTF	3/4-16UNF	8816-17-06-08	3/4-16UNF/OR	3/4-16UNF	8816-37-08-08	3/8"BSPP	3/4"-16UNF	8816-47-06-08
3/8NPTF	7/8-14UNF	8816-17-06-10	7/8UNF/OR	7/8UNF	8816-37-10-10	1/2"BSPP	3/4"-16UNF	8816-47-08-08
1/2NPTF	3/4-16UNF	8816-17-08-08	1.1/16UN/OR	1.1/16UN	8816-37-12-12	1/2"BSPP	7/8"-14UNF	8816-47-08-10
1/2NPTF	7/8-14UNF	8816-17-08-10	1.5/16UN/OR	1.5/16UN	8816-37-16-16	3/4"BSPP	1.1/16"-12UN	8816-47-12-12
1/2NPTF	1.1/16-12UN	8816-17-08-12				1"BSPP	1.5/16"-12UN	8816-47-16-16
3/4NPTF	7/8-14UNF	8816-17-12-10				1.1/4"BSPP	1.5/8"-12UN	8816-47-20-20
3/4NPTF	1.1/16-12UN	8816-17-12-12				1.1/2"BSPP	1.7/8"-12UN	8816-47-24-24
1NPTF	1.5/16-12UN	8816-17-16-16						
1.1/4NPTF	1.5/8-12UN	8816-17-20-20						
1.1/2NPTF	1.7/8-12UN	8816-17-24-24						

8816-48

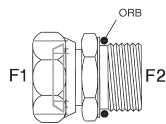
BSPP



F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.
G1/8	G1/8	8816-48-02-02	G1	G1	8816-48-16-16
G1/8	G1/4	8816-48-02-04	G1	G1.1/4	8816-48-16-20
G1/4	G1/8	8816-48-04-02	G1.1/4	G3/4	8816-48-20-12
G1/4	G1/4	8816-48-04-04	G1.1/4	G1.1/4	8816-48-20-20
G1/4	G3/8	8816-48-04-06	G1.1/2	G1.1/4	8816-48-24-20
G1/4	G1/2	8816-48-04-08	G1.1/2	G1.1/2	8816-48-24-24
G3/8	G1/4	8816-48-06-04			
G3/8	G3/8	8816-48-06-06			
G3/8	G1/2	8816-48-06-08			
G1/2	G1/4	8816-48-08-04			
G1/2	G3/8	8816-48-08-06			
G1/2	G1/2	8816-48-08-08			
G1/2	G5/8	8816-48-08-10			
G1/2	G3/4	8816-48-08-12			
G1/2	G1	8816-48-08-16			
G5/8	G1/2	8816-48-10-08			
G5/8	G5/8	8816-48-10-10			
G5/8	G3/4	8816-48-10-12			
G3/4	G3/8	8816-48-12-06			
G3/4	G1/2	8816-48-12-08			
G3/4	G5/8	8816-48-12-10			
G3/4	G3/4	8816-48-12-12			
G3/4	G1	8816-48-12-16			
G3/4	G1.1/4	8816-48-12-20			
G1	G1/2	8816-48-16-08			
G1	G5/8	8816-48-16-10			
G1	G3/4	8816-48-16-12			

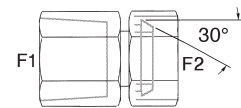
8816-53

NPSM-UN(F)/OR



8816-65

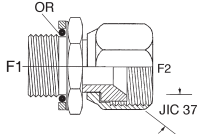
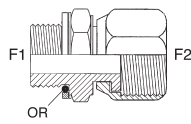
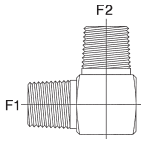
NPTF-NPSM



SAE 140131

F1 NPSM	F2 UN(F)/OR	Fe/Zn/YP REF.	F1 NPSM	F2 UN(F)/OR	Fe/Zn/YP REF.	F1 NPTF	F2 NPSM	Fe/Zn/YP REF.
1/8NPSM	7/16-20UNF/OR	8816-53-02-04	1NPSM	1.5/8-12UN/OR	8816-53-16-20	1/8NPTF	1/8NPSM	8816-65-02-02
1/4NPSM	7/16-20UNF/OR	8816-53-04-04	1.1/4NPSM	1.5/16-12UN/OR	8816-53-20-16	1/8NPTF	1/4NPSM	8816-65-02-04
1/4NPSM	1/2-20UNF/OR	8816-53-04-05	1.1/4NPSM	1.5/8-12UN/OR	8816-53-20-20	1/4NPTF	1/8NPSM	8816-65-04-02
1/4NPSM	9/16-18UNF/OR	8816-53-04-06	1.1/4NPSM	1.7/8-12UN/OR	8816-53-20-24	1/4NPTF	1/4NPSM	8816-65-04-04
1/4NPSM	3/4-16UNF/OR	8816-53-04-08	1.1/2NPSM	1.7/8-12UN/OR	8816-53-24-24	1/4NPTF	3/8NPSM	8816-65-04-06
3/8NPSM	7/16-20UNF/OR	8816-53-06-04	2NPSM	2.1/2-12UN/OR	8816-53-32-32	3/8NPTF	1/4NPSM	8816-65-06-04
3/8NPSM	9/16-18UNF/OR	8816-53-06-06				3/8NPTF	3/8NPSM	8816-65-06-06
3/8NPSM	3/4-16UNF/OR	8816-53-06-08				3/8NPTF	1/2NPSM	8816-65-06-08
3/8NPSM	7/8-14UNF/OR	8816-53-06-10				1/2NPTF	1/4NPSM	8816-65-08-04
3/8NPSM	1.1/16-12UN/OR	8816-53-06-12				1/2NPTF	3/8NPSM	8816-65-08-06
1/2NPSM	7/16-20UNF/OR	8816-53-08-04				1/2NPTF	1/2NPSM	8816-65-08-08
1/2NPSM	1/2-20UNF/OR	8816-53-08-05				1/2NPTF	3/4NPSM	8816-65-08-12
1/2NPSM	9/16-18UNF/OR	8816-53-08-06				3/4NPTF	1/2NPSM	8816-65-12-08
1/2NPSM	3/4-16UNF/OR	8816-53-08-08				3/4NPTF	3/4NPSM	8816-65-12-12
1/2NPSM	7/8-14UNF/OR	8816-53-08-10				3/4NPTF	1NPSM	8816-65-12-16
1/2NPSM	1.1/16-12UN/OR	8816-53-08-12				1NPTF	3/4NPSM	8816-65-16-12
1/2NPSM	1.5/16-12UN/OR	8816-53-08-16				1NPTF	1NPSM	8816-65-16-16
3/4NPSM	3/4-16UNF/OR	8816-53-12-08				1.1/4NPTF	1.1/4NPSM	8816-65-20-20
3/4NPSM	7/8-14UNF/OR	8816-53-12-10				1.1/2NPTF	1.1/2NPSM	8816-65-24-24
3/4NPSM	1.1/16-12UN/OR	8816-53-12-12				2NPTF	2NPSM	8816-65-32-32
3/4NPSM	1.3/16-12UN/OR	8816-53-12-14						
3/4NPSM	1.5/16-12UN/OR	8816-53-12-16						
3/4NPSM	1.5/8-12UN/OR	8816-53-12-20						
1NPSM	1.1/16-12UN/OR	8816-53-16-12						
1NPSM	1.3/16-12UN/OR	8816-53-16-14						
1NPSM	1.5/16-12UN/OR	8816-53-16-16						

ATZ Aandrijftechniek B.V. (026-3112611)

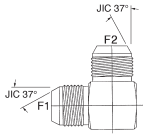
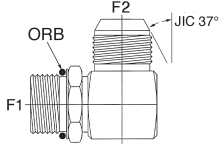
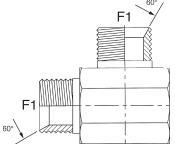
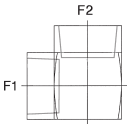
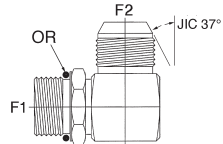
8816-97 BSPP/OR - UN(F) JIC 37°			8816-9B BSPP/OR-ORFS			8840-11 NPTF		
								
F1 BSPP/OR	F2 UN(F)(S) 37°	Fe/Zn/YP REF.	F1 BSPP/OR	F2 UN(F)	Fe/Zn/YP REF.	F1 NPTF	F2 NPTF	Fe/Zn/YP REF.
G3/8/OR G1/2/OR G1/OR	3/4-16UNF 7/8-14UNF 1.5/16-12UN	8816-97-06-08 8816-97-08-10 8816-97-16-16	G1/4/OR G3/8OR G1/2/OR G3/4/OR G1"/OR	9/16-18UNF 11/16-16UN 13/16-16UN 1.3/16-12UN 1.7/16-12UN	8816-9B-04-04 8816-9B-06-06 8816-9B-08-08 8816-9B-12-12 8816-9B-16-16	1/8NPTF 1/4NPTF 1/4NPTF 3/8NPTF 3/8NPTF 1/2NPTF 1/2NPTF 1/2NPTF 3/4NPTF 3/4NPTF 1NPTF 1NPTF 1.1/4NPTF 1.1/2NPTF	1/8NPTF 1/8NPTF 1/4NPTF 1/4NPTF 1/4NPTF 3/8NPTF 3/8NPTF 1/4NPTF 1/2NPTF 1/2NPTF 3/4NPTF 3/4NPTF 1NPTF 1NPTF 1.1/4NPTF 1.1/2NPTF	8840-11-02-02 8840-11-04-02 8840-11-04-04 8840-11-06-04 8840-11-06-06 8840-11-08-04 8840-11-08-06 8840-11-08-08 8840-11-12-08 8840-11-12-12 8840-11-16-12 8840-11-16-16 8840-11-20-20 8840-11-24-24

8840-12 NPTF-UN(F)	8840-16 NPTF
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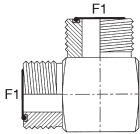
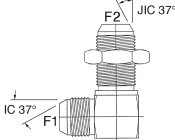
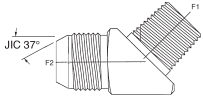
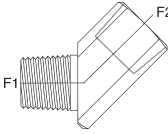
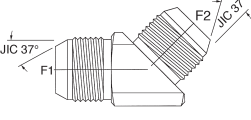


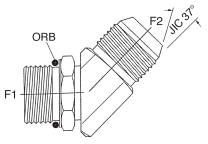
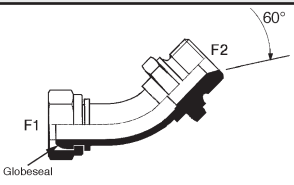
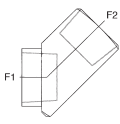
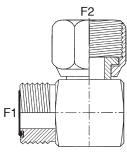
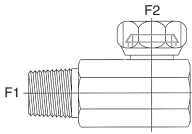
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1/8NPTF	5/16-24UNF	8840-12-02-02	3/4NPTF	3/4-16UNF	8840-12-12-08	1/8NPTF	1/8NPTF	8840-16-02-02
1/8NPTF	3/8-24UNF	8840-12-02-03	3/4NPTF	7/8-14UNF	8840-12-12-10	1/8NPTF	1/4NPTF	8840-16-02-04
1/8NPTF	7/16-20UNF	8840-12-02-04	3/4NPTF	1.1/16-12UN	8840-12-12-12	1/4NPTF	1/8NPTF	8840-16-04-02
1/8NPTF	1/2-20UNF	8840-12-02-05	3/4NPTF	1.3/16-12UN	8840-12-12-14	1/4NPTF	1/4NPTF	8840-16-04-04
1/8NPTF	3/4-16UNF	8840-12-02-08	3/4NPTF	1.5/16-12UN	8840-12-12-16	1/4NPTF	3/8NPTF	8840-16-04-06
1/8NPTF	9/16-18UNF	8840-12-02-06	3/4NPTF	1.5/8-12UN	8840-12-12-20	3/8NPTF	1/4NPTF	8840-16-06-04
1/4NPTF	7/16-20UNF	8840-12-04-04	1NPTF	3/4-16UNF	8840-12-16-08	3/8NPTF	3/8NPTF	8840-16-06-06
1/4NPTF	1/2-20UNF	8840-12-04-05	1NPTF	7/8-14UNF	8840-12-16-10	3/8NPTF	1/2NPTF	8840-16-06-08
1/4NPTF	9/16-18UNF	8840-12-04-06	1NPTF	1.1/16-12UN	8840-12-16-12	1/2NPTF	1/4NPTF	8840-16-08-04
1/4NPTF	3/4-16UNF	8840-12-04-08	1NPTF	1.3/16-12UN	8840-12-16-14	1/2NPTF	3/8NPTF	8840-16-08-06
3/8NPTF	7/16-20UNF	8840-12-06-04	1NPTF	1.5/16-12UN	8840-12-16-16	1/2NPTF	1/2NPTF	8840-16-08-08
3/8NPTF	1/2-20UNF	8840-12-06-05	1NPTF	1.5/8-12UN	8840-12-16-20	1/2NPTF	3/4NPTF	8840-16-08-12
3/8NPTF	9/16-18UNF	8840-12-06-06	1NPTF	1.7/8-12UN	8840-12-16-24	3/4NPTF	3/8NPTF	8840-16-12-06
3/8NPTF	3/4-16UNF	8840-12-06-08	1.1/4NPTF	1.5/16-12UN	8840-12-20-16	3/4NPTF	1/2NPTF	8840-16-12-08
3/8NPTF	7/8-14UNF	8840-12-06-10	1.1/4NPTF	1.5/8-12UN	8840-12-20-20	3/4NPTF	3/4NPTF	8840-16-12-12
3/8NPTF	1.1/16-12UN	8840-12-06-12	1.1/4NPTF	1.7/8-12UN	8840-12-20-24	3/4NPTF	1NPTF	8840-16-12-16
1/2NPTF	7/16-20UNF	8840-12-08-04	1.1/2NPTF	1.5/16-12UN	8840-12-24-16	1NPTF	3/4NPTF	8840-16-16-12
1/2NPTF	1/2-20UNF	8840-12-08-05	1.1/2NPTF	1.5/8-12UN	8840-12-24-20	1NPTF	1NPTF	8840-16-16-16
1/2NPTF	9/16-18UNF	8840-12-08-06	1.1/2NPTF	1.7/8-12UN	8840-12-24-24	1.1/4NPTF	1NPTF	8840-16-20-16
1/2NPTF	3/4-16UNF	8840-12-08-08	1.1/2NPTF	2.1/2-12UN	8840-12-24-32	1.1/4NPTF	1.1/4NPTF	8840-16-20-20
1/2NPTF	7/8-14UNF	8840-12-08-10	2NPTF	2.1/2-12UN	8840-12-32-32	1.1/4NPTF	1.1/2NPTF	8840-16-20-24
1/2NPTF	1.1/16-12UN	8840-12-08-12				1.1/2NPTF	1.1/2NPTF	8840-16-24-24
1/2NPTF	1.3/16-12UN	8840-12-08-14				2NPTF	2NPTF	8840-16-32-32
1/2NPTF	1.5/16-12UN	8840-12-08-16						
3/4NPTF	9/16-18UNF	8840-12-12-06						

ATZ Aandrijftechniek B.V. (026-3112611)

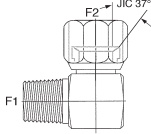
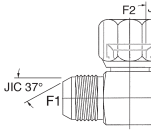
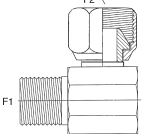
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 <p>SAE 070201</p>			 <p>SAE 070220</p>					
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5/16-24UNF	5/16-24UNF	8840-22-02-02	5/16-24UNF/OR	5/16-24UNF	8840-32-02-02	7/8-14UNF/OR	1.5/16-12UN	8840-32-10-16
7/16-20UNF	7/16-20UNF	8840-22-04-04	3/8-24UNF/OR	3/8-24UNF	8840-32-03-03	1.1/16-12UN/OR	9/16-18UNF	8840-32-12-06
1/2-20UNF	7/16-20UNF	8840-22-05-04	7/16-20UNF/OR	7/16-20UNF	8840-32-04-04	1.1/16-12UN/OR	3/4-16UNF	8840-32-12-08
1/2-20UNF	1/2-20UNF	8840-22-05-05	7/16-20UNF/OR	1/2-20UNF	8840-32-04-05	1.1/16-12UN/OR	7/8-14UNF	8840-32-12-10
9/16-18UNF	7/16-20UNF	8840-22-06-04	7/16-20UNF/OR	9/16-18UNF	8840-32-04-06	1.1/16-12UN/OR	1.1/16-12UN	8840-32-12-12
9/16-18UNF	1/2-20UNF	8840-22-06-05	7/16-20UNF/OR	3/4-16UNF	8840-32-04-08	1.1/16-12UN/OR	1.3/16-12UN	8840-32-12-14
9/16-18UNF	9/16-18UNF	8840-22-06-06	1/2-20UNF/OR	7/16-20UNF	8840-32-05-04	1.1/16-12UN/OR	1.5/16-12UN	8840-32-12-16
3/4-16UNF	9/16-18UNF	8840-22-08-06	1/2-20UNF/OR	1/2-20UNF	8840-32-05-05	1.1/16-12UN/OR	1.5/8-12UN	8840-32-12-20
3/4-16UNF	3/4-16UNF	8840-22-08-08	1/2-20UNF/OR	9/16-18UNF	8840-32-05-06	1.3/16-12UN/OR	7/8-14UNF	8840-32-14-10
7/8-14UNF	7/8-14UNF	8840-22-10-10	1/2-20UNF/OR	3/4-16UNF	8840-32-05-08	1.3/16-12UN/OR	1.3/16-12UN	8840-32-14-14
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1.1/16-12UN	1.1/16-12UN	8840-22-12-12	9/16-18UNF/OR	1/2-20UNF	8840-32-06-05	1.3/16-12UN/OR	1.5/8-12UN	8840-32-14-20
1.3/16-12UN	1.3/16-12UN	8840-22-14-14	9/16-18UNF/OR	9/16-18UNF	8840-32-06-06	1.5/16-12UN/OR	3/4-16UNF	8840-32-16-08
1.5/16-12UN	1.1/16-12UN	8840-22-16-12	9/16-18UNF/OR	3/4-16UNF	8840-32-06-08	1.5/16-12UN/OR	7/8-14UNF	8840-32-16-10
1.5/16-12UN	1.5/16-12UN	8840-22-16-16	9/16-18UNF/OR	7/8-14UNF	8840-32-06-10	1.5/16-12UN/OR	1.1/16-12UN	8840-32-16-12
1.5/8-12UN	1.5/8-12UN	8840-22-20-20	9/16-18UNF/OR	1.1/16-12UN	8840-32-06-12	1.5/16-12UN/OR	1.3/16-12UN	8840-32-16-14
1.7/8-12UN	1.7/8-12UN	8840-22-24-24	3/4-16UNF/OR	7/16-20UNF	8840-32-08-04	1.5/16-12UN/OR	1.5/16-12UN	8840-32-16-16
2.1/2-12UN	2.1/2-12UN	8840-22-32-32	3/4-16UNF/OR	1/2-20UNF	8840-32-08-05	1.5/16-12UN/OR	1.5/8-12UN	8840-32-16-20
			3/4-16UNF/OR	9/16-18UNF	8840-32-08-06	1.5/16-12UN/OR	1.7/8-12UN	8840-32-16-24
			3/4-16UNF/OR	3/4-16UNF	8840-32-08-08	1.5/8-12UN/OR	7/8-14UNF	8840-32-20-10
			3/4-16UNF/OR	7/8-14UNF	8840-32-08-10	1.5/8-12UN/OR	1.1/16-12UN	8840-32-20-12
			3/4-16UNF/OR	1.1/16-12UN	8840-32-08-12	1.5/8-12UN/OR	1.5/16-12UN	8840-32-20-16
			3/4-16UNF/OR	1.5/16-12UN	8840-32-08-16	1.5/8-12UN/OR	1.5/8-12UN	8840-32-20-20
			7/8-14UNF/OR	1/2-20UNF	8840-32-10-05	1.5/8-12UN/OR	1.7/8-12UN	8840-32-20-24
			7/8-14UNF/OR	9/16-18UNF	8840-32-10-06	1.7/8-12UN/OR	1.5/8-12UN	8840-32-24-20
			7/8-14UNF/OR	3/4-16UNF	8840-32-10-08	1.7/8-12UN/OR	1.7/8-12UN	8840-32-24-24
			7/8-14UNF/OR	7/8-14UNF	8840-32-10-10	2.1/2-12UN/OR	2.1/2-12UN	8840-32-32-32
			7/8-14UNF/OR	1.1/16-12UN	8840-32-10-12			
8840-44 BSPP			8840-66 NPTF			8840-92 BSPP/OR-UN(F) JIC 37°		
			 <p>SAE 140238</p>					
F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	F1 NPTF	F2 NPTF	Fe/Zn/YP REF.	F1 BSPP/OR	F2 UN(F)	Fe/Zn/YP REF.
G1/4	G1/4	8840-44-04-04	1/8NPTF	1/8NPTF	8840-66-02-02	G1/4/OR	7/16-20UNF	8840-92-04-04
G3/8	G3/8	8840-44-06-06	1/4NPTF	1/8NPTF	8840-66-04-02	G1/4/OR	1/2-20UNF	8840-92-04-05
G1/2	G1/2	8840-44-08-08	1/4NPTF	1/4NPTF	8840-66-04-04	G1/4/OR	9/16-18UNF	8840-92-04-06
G5/8	G5/8	8840-44-10-10	3/8NPTF	1/4NPTF	8840-66-06-04	G1/4/OR	3/4-16UNF	8840-92-04-08
G3/4	G3/4	8840-44-12-12	3/8NPTF	3/8NPTF	8840-66-06-06	G3/8/OR	3/4-16UNF	8840-92-06-08
G1	G1	8840-44-16-16	1/2NPTF	1/4NPTF	8840-66-08-04	G1/2/OR	3/4-16UNF	8840-92-08-08
G1.1/4	G1.1/4	8840-44-20-20	1/2NPTF	3/8NPTF	8840-66-08-06	G1/2/OR	7/8-14UNF	8840-92-08-10
G1.1/2	G1.1/2	8840-44-24-24	1/2NPTF	1/2NPTF	8840-66-08-08	G1/2/OR	3/4-16UNF	8840-92-08-08
G2	G2	8840-44-32-32	3/4NPTF	1/2NPTF	8840-66-12-08	G1/2/OR	1.1/16-12UN	8840-92-08-12
			3/4NPTF	3/4NPTF	8840-66-12-12	G3/4/OR	1.1/16-12UN	8840-92-12-12
			1NPTF	3/4NPTF	8840-66-16-12	G1/OR	1.5/16-12UN	8840-92-16-16
			1NPTF	1NPTF	8840-66-16-16	G1/OR	1.5/8-12UN	8840-92-16-20
			1.1/4NPTF	1.1/4NPTF	8840-66-20-20	G1.1/4/OR	1.5/8-12UN	8840-92-20-20
			1/2NPTF	1.1/2NPTF	8840-66-24-24	G1.1/2/OR	1.7/8-12UN	8840-92-24-24
			2NPTF	2NPTF	8840-66-32-32	G2/OR	2.1/2-12UN	8840-92-32-32

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8840-AA ORFS			8841-22 UN(F) JIC 37°			8845-12 NPTF-UN(F) JIC 37°		
 SAE 520201			 SAE 070701					
F1 UN(F)(S)	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 NPTF	F2 UN(F)	Fe/Zn/YP REF.	
9/16-18UNF 11/16-16UN 13/16-16UN 1" -14UNS 1.3/16-12UN 1.7/16-12UN 1.11/16-12UN	8840-AA-04-04 8840-AA-06-06 8840-AA-08-08 8840-AA-10-10 8840-AA-12-12 8840-AA-16-16 8840-AA-20-20	7/16-20UNF 1/2-20UNF 9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN 1.5/16-12UN 1.5/8-12UN 1.7/8-12UN	7/16-20UNF 1/2-20UNF 9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN 1.5/16-12UN 1.5/8-12UN 1.7/8-12UN	8841-22-04-04 8841-22-05-05 8841-22-06-06 8841-22-08-08 8841-22-10-10 8841-22-12-12 8841-22-16-16 8841-22-20-20 8841-22-24-24	1/8NPTF 1/8NPTF 1/8NPTF 1/8NPTF 1/8NPTF 1/4NPTF 1/4NPTF 1/4NPTF 1/4NPTF 1/4NPTF 3/8NPTF 3/8NPTF 3/8NPTF 3/8NPTF 3/8NPTF 1/2NPTF 1/2NPTF 1/2NPTF 1/2NPTF 1/2NPTF 1/2NPTF 3/4NPTF 3/4NPTF 3/4NPTF 3/4NPTF 3/4NPTF 3/4NPTF 1NPTF 1NPTF 1NPTF 1.1/4NPTF 1.1/4NPTF 1.1/2NPTF 1.1/2NPTF 2NPTF	5/16-24UNF 3/8-24UNF 7/16-20UNF 1/2-20UNF 9/16-18UNF 7/16-20UNF 1/2-20UNF 3/4-16UNF 7/16-20UNF 1/2-20UNF 9/16-18UNF 7/16-20UNF 1/2-20UNF 3/4-16UNF 7/8-14UNF 7/16-20UNF 9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN 1.5/16-12UN 9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN 1.3/16-12UN 1.5/16-12UN 1.1/16-12UN 1.5/16-12UN 1NPTF 1.5/8-12UN 1.5/16-12UN 1.5/8-12UN 1.5/8-12UN 1.7/8-12UN 2.1/2-12UN	8845-12-02-02 8845-12-02-03 8845-12-02-04 8845-12-02-05 8845-12-02-06 8845-12-04-04 8845-12-04-05 8845-12-04-06 8845-12-04-08 8845-12-06-04 8845-12-06-05 8845-12-06-06 8845-12-06-08 8845-12-06-10 8845-12-08-04 8845-12-08-06 8845-12-08-08 8845-12-08-10 8845-12-08-12 8845-12-08-16 8845-12-12-06 8845-12-12-08 8845-12-12-10 8845-12-12-12 8845-12-12-14 8845-12-12-16 8845-12-16-12 8845-12-16-20 8845-12-20-16 8845-12-20-20 8845-12-24-20 8845-12-24-24 8845-12-32-32	
8845-16 NPTF			8845-22 UN(F) JIC 37°					
 SAE 140339			 SAE 070301					
F1 NPTF	F2 NPTF	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.			
1/8NPTF 1/4NPTF 3/8NPTF 1/2NPTF 3/4NPTF 1NPTF 1.1/4NPTF 1.1/2NPTF	1/8NPTF 1/4NPTF 3/8NPTF 1/2NPTF 3/4NPTF 1NPTF 1.1/4NPTF 1.1/2NPTF	8845-16-02-02 8845-16-04-04 8845-16-06-06 8845-16-08-08 8845-16-12-12 8845-16-16-16 8845-16-20-20 8845-16-24-24	9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN	9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN	8845-22-06-06 8845-22-08-08 8845-22-10-10 8845-22-12-12			

8845-32 UN(F)/OR-UN(F) JIC 37°						8845-48 BSPP		
 <p style="text-align: center;">SAE 070320</p>								
F1 UN(F)/OR	F2 UN(F)	Fe/Zn/YP REF.	F1 UN(F)/OR	F2 UN(F)	Fe/Zn REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.
7/16-20UNF/OR	7/16-20UNF	8845-32-04-04	1.5/16-12UN/OR	1.5/16-12UN	8845-32-16-16	G1/4	G1/4	8845-48-04-04
7/16-20UNF/OR	1/2-20UNF	8845-32-04-05	1.5/16-12UN/OR	1.5/8-12UN	8845-32-16-20	G3/8	G3/8	8845-48-06-06
7/16-20UNF/OR	9/16-18UNF	8845-32-04-06	1.5/8-12UN/OR	1.5/16-12UN	8845-32-20-16	G1/2	G1/2	8845-48-08-08
1/2-20UNF/OR	7/16-20UNF	8845-32-05-04	1.5/8-12UN/OR	1.5/8-12UN	8845-32-20-20	G3/4	G3/4	8845-48-12-12
1/2-20UNF/OR	1/2-20UNF	8845-32-05-05	1.7/8-12UN/OR	1.7/8-12UN	8845-32-24-24	G1	G1	8845-48-16-16
1/2-20UNF/OR	9/16-18UNF	8845-32-05-06	2.1/2-12UN/OR	2.1/2-12UN	8845-32-32-32	8845-66 NPTF		
9/16-18UNF/OR	7/16-20UNF	8845-32-06-04				 <p style="text-align: center;">SAE 140338</p>		
9/16-18UNF/OR	1/2-20UNF	8845-32-06-05				F1 NPTF	F2 NPTF	Fe/Zn/YP REF.
9/16-18UNF/OR	9/16-18UNF	8845-32-06-06				1/8NPTF	1/8NPTF	8845-66-02-02
9/16-18UNF/OR	3/4-16UNF	8845-32-06-08				1/4NPTF	1/4NPTF	8845-66-04-04
3/4-16UNF/OR	7/16-20UNF	8845-32-08-04				3/8NPTF	3/8NPTF	8845-66-06-06
3/4-16UNF/OR	9/16-18UNF	8845-32-08-06				1/2NPTF	1/2NPTF	8845-66-08-08
3/4-16UNF/OR	3/4-16UNF	8845-32-08-08				3/4NPTF	3/4NPTF	8845-66-12-12
3/4-16UNF/OR	7/8-14UNF	8845-32-08-10				1NPTF	1NPTF	8845-66-16-16
3/4-16UNF/OR	1.1/16-12UN	8845-32-08-12						
7/8-14UNF/OR	9/16-18UNF	8845-32-10-06						
7/8-14UNF/OR	3/4-16UNF	8845-32-10-08						
7/8-14UNF/OR	7/8-14UNF	8845-32-10-10						
7/8-14UNF/OR	1.1/16-12UN	8845-32-10-12						
1.1/16-12UN/OR	3/4-16UNF	8845-32-12-08						
1.1/16-12UN/OR	1.1/16-12UN	8845-32-12-12						
1.1/16-12UN/OR	1.3/16-12UN	8845-32-12-14						
1.1/16-12UN/OR	1.5/16-12UN	8845-32-12-16						
1.3/16-12UN/OR	1.1/16-12UN	8845-32-14-12						
1.3/16-12UN/OR	1.3/16-12UN	8845-32-14-14						
1.5/16-12UN/OR	1.1/16-12UN	8845-32-16-12						
8846-AB ORFS			8846-15 NPTF-NPSM					
 <p style="text-align: center;">SAE 520221</p>			 <p style="text-align: center;">SAE 140230</p>					
F1 UN(F)(S)	F2 UN(F)(S)	Fe/Zn/YP REF.	F1 NPTF	F2 NPSM	Fe/Zn/YP REF.	F1 NPTF	F2 NPSM	Fe/Zn/YP REF.
9/16-18UNF	9/16-18UNF	8846-AB-04-04	1/8NPTF	1/8NPSM	8846-15-02-02	1.1/2NPTF	1.1/4NPSM	8846-15-24-20
11/16-16UN	11/16-16UN	8846-AB-06-06	1/8NPTF	1/4NPSM	8846-15-02-04	1.1/2NPTF	1.1/2NPSM	8846-15-24-24
13/16-16UN	13/16-16UN	8846-AB-08-08	1/4NPTF	1/8NPSM	8846-15-04-02	2NPTF	2NPSM	8846-15-32-32
1" -14UNS	1" -14UNS	8846-AB-10-10	1/4NPTF	1/4NPSM	8846-15-04-04			
1.3/16-12UN	1.3/16-12UN	8846-AB-12-12	1/4NPTF	3/8NPSM	8846-15-04-06			
1.7/16-12UN	1.7/16-12UN	8846-AB-16-16	1/4NPTF	1/2NPSM	8846-15-04-08			
1.11/16-12UN	1.11/16-12UN	8846-AB-20-20	3/8NPTF	1/4NPSM	8846-15-06-04			
			3/8NPTF	3/8NPSM	8846-15-06-06			
			3/8NPTF	1/2NPSM	8846-15-06-08			
			1/2NPTF	1/4NPSM	8846-15-08-04			
			1/2NPTF	3/8NPSM	8846-15-08-06			
			1/2NPTF	1/2NPSM	8846-15-08-08			
			1/2NPTF	3/4NPSM	8846-15-08-12			
			3/4NPTF	1/4NPSM	8846-15-12-04			
			3/4NPTF	3/8NPSM	8846-15-12-06			
			3/4NPTF	1/2NPSM	8846-15-12-08			
			3/4NPTF	3/4NPSM	8846-15-12-12			
			3/4NPTF	1NPSM	8846-15-12-16			
			3/4NPTF	1.1/4NPSM	8846-15-12-20			
			1NPTF	1/2NPSM	8846-15-16-08			
			1NPTF	3/4NPSM	8846-15-16-12			
			1NPTF	1NPSM	8846-15-16-16			
			1NPTF	1.1/4NPSM	8846-15-16-20			
			1.1/4NPTF	3/4NPSM	8846-15-20-12			
			1.1/4NPTF	1NPSM	8846-15-20-16			
			1.1/4NPTF	1.1/4NPSM	8846-15-20-20			

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8846-17 NPTF-UN(F) JIC 37°			8846-27 UN(F) JIC 37°			8846-48 BSPP		
								
			SAE 070221					
F1 NPTF	F2 UN(F)	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.
1/8NPTF	7/16-20UNF	8846-17-02-04	7/16-20UNF	7/16-20UNF	8846-27-04-04	G1/4	G1/4	8846-48-04-04
1/8NPTF	1/2-20UNF	8846-17-02-05	1/2-20UNF	1/2-20UNF	8846-27-05-05	G3/8	G3/8	8846-48-06-06
1/4NPTF	7/16-20UNF	8846-17-04-04	1/2-20UNF	9/16-18UNF	8846-27-05-06	G1/2	G1/2	8846-48-08-08
1/4NPTF	9/16-18UNF	8846-17-04-06	9/16-18UNF	9/16-18UNF	8846-27-06-06	G5/8	G5/8	8846-48-10-10
3/8NPTF	7/16-20UNF	8846-17-06-04	9/16-18UNF	3/4-16UNF	8846-27-06-08	G3/4	G3/4	8846-48-12-12
3/8NPTF	9/16-28UNF	8846-17-06-06	3/4-16UNF	9/16-18UNF	8846-27-08-06	G1	G3/4	8846-48-16-12
3/8NPTF	3/4-16UNF	8846-17-06-08	3/4-16UNF	3/4-16UNF	8846-27-08-08	G1	G1	8846-48-16-16
1/2NPTF	3/4-16UNF	8846-17-08-08	3/4-16UNF	7/8-14UNF	8846-27-08-10	G1.1/4	G1.1/4	8846-48-20-20
1/2NPTF	7/8-14UNF	8846-17-08-10	3/4-16UNF	1.1/16-12UN	8846-27-08-12	G1.1/2	G1.1/2	8846-48-24-24
3/4NPTF	1.1/16-12UN	8846-17-12-12	7/8-14UNF	3/4-16UNF	8846-27-10-08	G2	G2	8846-48-32-32
3/4NPTF	1.3/16-12UN	8846-17-12-14	7/8-14UNF	7/8-14UNF	8846-27-10-10			
1NPTF	1.5/16-12UN	8846-17-16-16	7/8-14UNF	1.1/16-12UN	8846-27-10-12			
1.1/4NPTF	1.5/8-12UN	8846-17-20-20	1.1/16-12UN	3/4-16UNF	8846-27-12-08			
1.1/2NPTF	1.7/8-12UN	8846-17-24-24	1.1/16-12UN	7/8-14UNF	8846-27-12-10			
2NPTF	2.1/2-12UN	8846-17-32-32	1.1/16-12UN	1.1/16-12UN	8846-27-12-12			
			1.3/16-12UN	1.3/16-12UN	8846-27-14-14			
			1.5/16-12UN	1.5/16-12UN	8846-27-16-16			
			1.5/8-12UN	1.5/8-12UN	8846-27-20-20			
			1.7/8-12UN	1.7/8-12UN	8846-27-24-24			
			2.1/2-12UN	2.1/2-12UN	8846-27-32-32			



8846-53 NPSM-UN(F)/OR					8846-65 NPTF-NPSM			
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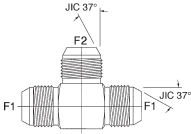
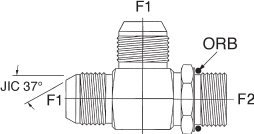
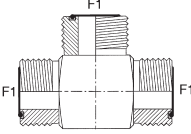
								
					SAE 140231			

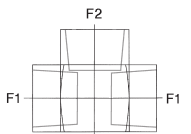
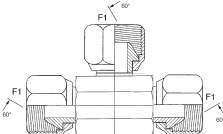
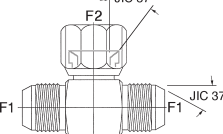
F1 NPSM	F2 UN(F)/OR	Fe/Zn/YP REF.	F1 NPSM	F2 UN/OR	Fe/Zn/YP REF.	F1 NPTF	F2 NPSM	Fe/Zn/YP REF.
1/8NPSM	7/16-20UNF/OR	8846-53-02-04	1.1/4NPSM	1.5/8-12UN/OR	8846-53-20-20	1/8NPTF	1/8NPSM	8846-65-02-02
1/4NPSM	7/16-20UNF/OR	8846-53-04-04	1.1/2NPSM	1.7/8-12UN/OR	8846-53-24-24	1/8NPTF	1/4NPSM	8846-65-02-04
1/4NPSM	1/2-20UNF/OR	8846-53-04-05	2NPSM	2.1/2-12UN/OR	8846-53-32-32	1/4NPTF	1/8NPSM	8846-65-04-02
1/4NPSM	9/16-18UNF/OR	8846-53-04-06				1/4NPTF	1/4NPSM	8846-65-04-04
1/4NPSM	3/4-16UNF/OR	8846-53-04-08				1/4NPTF	3/8NPSM	8846-65-04-06
1/4NPSM	7/8-14UNF/OR	8846-53-04-10				3/8NPTF	1/4NPSM	8846-65-06-04
3/8NPSM	7/16-20UNF/OR	8846-53-06-04				3/8NPTF	3/8NPSM	8846-65-06-06
3/8NPSM	9/16-18UNF/OR	8846-53-06-06				3/8NPTF	1/2NPSM	8846-65-06-08
3/8NPSM	3/4-16UNF/OR	8846-53-06-08				1/2NPTF	1/4NPSM	8846-65-08-04
3/8NPSM	7/8-14UNF/OR	8846-53-06-10				1/2NPTF	3/8NPSM	8846-65-08-06
3/8NPSM	1.1/16-12UN/OR	8846-53-06-12				1/2NPTF	1/2NPSM	8846-65-08-08
1/2NPSM	7/16-20UNF/OR	8846-53-08-04				1/2NPTF	3/4NPSM	8846-65-08-12
1/2NPSM	9/16-18UNF/OR	8846-53-08-06				3/4NPTF	1/2NPSM	8846-65-12-08
1/2NPSM	3/4-16UNF/OR	8846-53-08-08				3/4NPTF	3/4NPSM	8846-65-12-12
1/2NPSM	7/8-14UNF/OR	8846-53-08-10				3/4NPTF	1NPSM	8846-65-12-16
1/2NPSM	1.1/16-12UN/OR	8846-53-08-12				1NPTF	3/4NPSM	8846-65-16-12
3/4NPSM	3/4-16UNF/OR	8846-53-12-08				1NPTF	1NPSM	8846-65-16-16
3/4NPSM	7/8-14UNF/OR	8846-53-12-10				1.1/4NPTF	1NPSM	8846-65-20-16
3/4NPSM	1.1/16-12UN/OR	8846-53-12-12				1.1/4NPTF	1.1/4NPSM	8846-65-20-20
3/4NPSM	1.3/16-12UN/OR	8846-53-12-14				1.1/2NPTF	1.1/2NPSM	8846-65-24-24
3/4NPSM	1.5/16-12UN/OR	8846-53-12-16				2NPTF	2NPSM	8846-65-32-32
3/4NPSM	1.5/8-12UN/OR	8846-53-12-20						
1NPSM	1.3/16-12UN/OR	8846-53-16-14						
1NPSM	1.5/16-12UN/OR	8846-53-16-16						
1NPSM	1.5/8-12UN/OR	8846-53-16-20						
1.1/4NPSM	1.5/16-12UN/OR	8846-53-20-16						

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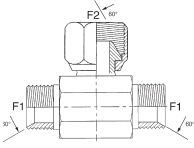
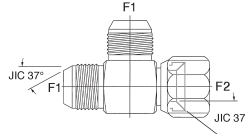
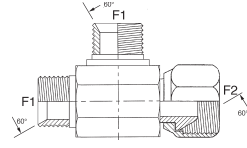
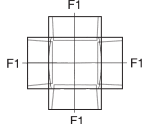
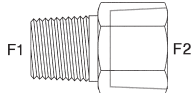
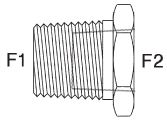
8847-15 NPTF-NPSM			8847-27 UN(F) JIC 37°			8847-53 NPSM-UN(F)/OR		
<p>SAE 140330</p>								
F1 NPTF	F2 NPSM	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 NPSM	F2 UN(F)/OR	Fe/Zn/YP REF.
1/8NPTF	1/8NPSM	8847-15-02-02	7/16-20UNF	7/16-20UNF	8847-27-04-04	1/4NPSM	7/16-20UNF/OR	8847-53-04-04
1/8NPTF	1/4NPSM	8847-15-02-04	1/2-20UNF	1/2-20UNF	8847-27-05-05	1/4NPSM	9/16-18UNF/OR	8847-53-04-06
1/4NPTF	1/8NPSM	8847-15-04-02	9/16-18UNF	9/16-18UNF	8847-27-06-06	1/4NPSM	3/4-16UNF/OR	8847-53-04-08
1/4NPTF	1/4NPSM	8847-15-04-04	3/4-16UNF	3/4-16UNF	8847-27-08-08	3/8NPSM	7/16-20UNF/OR	8847-53-06-04
1/4NPTF	3/8NPSM	8847-15-04-06	7/8-14UNF	7/8-14UNF	8847-27-10-10	3/8NPSM	9/16-18UNF/OR	8847-53-06-06
1/4NPTF	1/2NPSM	8847-15-04-08	1.1/16-12UN	1.1/16-12UN	8847-27-12-12	3/8NPSM	3/4-16UNF/OR	8847-53-06-08
3/8NPTF	1/4NPSM	8847-15-06-04	1.5/16-12UN	1.5/16-12UN	8847-27-16-16	3/8NPSM	7/8-14UNF/OR	8847-53-06-10
3/8NPTF	3/8NPSM	8847-15-06-06	1.5/8-12UN	1.5/8-12UN	8847-27-20-20	1/2NPSM	9/16-18UNF/OR	8847-53-08-06
3/8NPTF	1/2NPSM	8847-15-06-08	1.7/8-12UN	1.7/8-12UN	8847-27-24-24	1/2NPSM	3/4-16UNF/OR	8847-53-08-08
1/2NPTF	1/4NPSM	8847-15-08-04	2.1/2-12UN	2.1/2-12UN	8847-27-32-32	1/2NPSM	7/8-14UNF/OR	8847-53-08-10
1/2NPTF	3/8NPSM	8847-15-08-06				1/2NPSM	1.1/16-12UN/OR	8847-53-08-12
1/2NPTF	1/2NPSM	8847-15-08-08				3/4NPSM	3/4-16UNF/OR	8847-53-12-08
1/2NPTF	3/4NPSM	8847-15-08-12				3/4NPSM	7/8-14UNF/OR	8847-53-12-10
3/4NPTF	1/2NPSM	8847-15-12-08				3/4NPSM	1.1/16-12UN/OR	8847-53-12-12
3/4NPTF	3/4NPSM	8847-15-12-12				3/4NPSM	1.5/16-12UN/OR	8847-53-12-16
3/4NPTF	1NPSM	8847-15-12-16				1NPSM	1.1/16-12UN/OR	8847-53-16-12
1NPTF	3/4NPSM	8847-15-16-12				1NPSM	1.5/16-12UN/OR	8847-53-16-16
1NPTF	1NPSM	8847-15-16-16				1NPSM	1.5/8-12UN/OR	8847-53-16-20
1NPTF	1.1/4NPSM	8847-15-16-20				1.1/4NPSM	1.5/8-12UN/OR	8847-53-20-20
1.1/4NPTF	1NPSM	8847-15-20-16				1.1/2NPSM	1.7/8-12UN/OR	8847-53-24-24
1.1/4NPTF	1.1/4NPSM	8847-15-20-20						
1.1/2NPTF	1.1/2NPSM	8847-15-24-24						
2NPTF	2NPSM	8847-15-32-32						

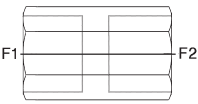
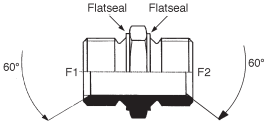
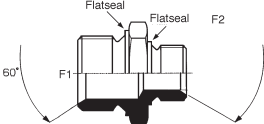
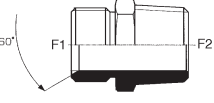
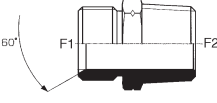
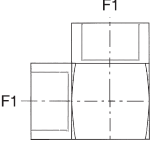
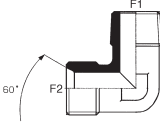
8850-122 NPTF-UN(F) JIC 37°			8850-166 NPTF			8850-221 NPTF-UN(F) JIC 37°		
<p>SAE 070424</p>			<p>SAE 140424</p>					
F1 NPTF	F2 UN(F)	Fe/Zn/YP REF.	F1 NPTF	F2 NPTF	Fe/Zn/YP REF.	F1 NPTF	F2 UN(F)	Fe/Zn/YP REF.
1/8NPTF	3/8-24UNF	8850-122-02-03	1/8NPTF	1/8NPTF	8850-166-02-02	1/8NPTF	3/8-24UNF	8850-221-02-03
1/8NPTF	7/16-20UNF	8850-122-02-04	1/8NPTF	1/4NPTF	8850-166-02-04	1/8NPTF	7/16-20UNF	8850-221-02-04
1/8NPTF	1/2-20UNF	8850-122-02-05	1/4NPTF	1/4NPTF	8850-166-04-04	1/8NPTF	1/2-20UNF	8850-221-02-05
1/8NPTF	9/16-18UNF	8850-122-02-06	3/8NPTF	3/8NPTF	8850-166-06-06	1/8NPTF	9/16-18UNF	8850-221-02-06
1/4NPTF	7/16-20UNF	8850-122-04-04	1/2NPTF	1/2NPTF	8850-166-08-08	1/4NPTF	7/16-20UNF	8850-221-04-04
1/4NPTF	1/2-20UNF	8850-122-04-05	3/4NPTF	3/4NPTF	8850-166-12-12	1/4NPTF	1/2-20UNF	8850-221-04-05
1/4NPTF	9/16-20UNF	8850-122-04-06	1NPTF	1NPTF	8850-166-16-16	1/4NPTF	9/16-18UNF	8850-221-04-06
1/4NPTF	3/4-16UNF	8850-122-04-08	1.1/4NPTF	1.1/4NPTF	8850-166-20-20	1/4NPTF	3/4-16UNF	8850-221-04-08
3/8NPTF	9/16-20UNF	8850-122-06-06	1.1/2NPTF	1.1/2NPTF	8850-166-24-24	3/8NPTF	7/16-20UNF	8850-221-06-04
3/8NPTF	3/4-16UNF	8850-122-06-08	2NPTF	2NPTF	8850-166-32-32	3/8NPTF	9/16-18UNF	8850-221-06-06
1/2NPTF	3/4-16UNF	8850-122-08-08				3/8NPTF	3/4-16UNF	8850-221-06-08
1/2NPTF	7/8-14UNF	8850-122-08-10				3/8NPTF	7/8-14UNF	8850-221-06-10
1/2NPTF	1.1/16-12UN	8850-122-08-12				1/2NPTF	9/16-18UNF	8850-221-08-06
3/4NPTF	3/4-16UNF	8850-122-12-08				1/2NPTF	3/4-16UNF	8850-221-08-08
3/4NPTF	7/8-14UNF	8850-122-12-10				1/2NPTF	7/8-14UNF	8850-221-08-10
3/4NPTF	1.1/16-12UN	8850-122-12-12				1/2NPTF	1.1/16-12UN	8850-221-08-12
3/4NPTF	1.3/16-12UN	8850-122-12-14				3/4NPTF	3/4-16UN	8850-221-12-08
1NPTF	1.5/16-12UN	8850-122-16-16				3/4NPTF	1.1/16-12UN	8850-221-12-12
1NPTF	1.5/8-12UN	8850-122-16-20				3/4NPTF	1.3/16-12UN	8850-221-12-14
1.1/4NPTF	1.5/8-12UN	8850-122-20-20				3/4NPTF	1.5/16-12UN	8850-221-12-16
1.1/2NPTF	1.7/8-12UN	8850-122-24-24				1NPTF	1.5/16-12UN	8850-221-16-16
2NPTF	2.1/2-12UN	8850-122-32-32				1.1/4NPTF	1.5/8-12UN	8850-221-20-20
						1.1/2NPTF	1.7/8-12UN	8850-221-24-24
						2NPTF	2.1/2-12UN	8850-221-32-32

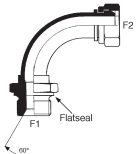
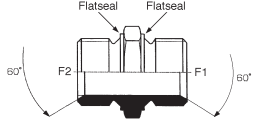
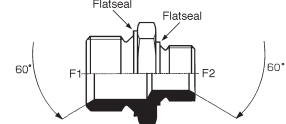


8850-222 UN(F) JIC 37°			8850-232 UN(F) JIC 37°-UN(F)/OR			8850-AAA ORFS	
 <p style="text-align: center;">SAE 070401</p>			 <p style="text-align: center;">SAE 070428</p>			 <p style="text-align: center;">SAE 520401</p>	
F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 UN(F)(S)	Fe/Zn/YP REF.
5/16-24UNF	5/16-24UNF	8850-222-02-02	7/16-20UNF	7/16-20UNF/OR	8850-232-04-04	9/16-18UNF	8850-AAA-04-04
3/8-24UNF	3/8-24UNF	8850-222-03-03	1/2-20UNF	1/2-20UNF/OR	8850-232-05-05	11/16-16UN	8850-AAA-06-06
7/16-20UNF	7/16-20UNF	8850-222-04-04	9/16-18UNF	7/16-20UNF/OR	8850-232-06-04	13/16-16UN	8850-AAA-08-08
7/16-20UNF	9/16-18UNF	8850-222-04-06	9/16-18UNF	9/16-18UNF/OR	8850-232-06-06	1" -14UNS	8850-AAA-10-10
1/2-20UNF	7/16-20UNF	8850-222-05-04	9/16-18UNF	3/4-16UNF/OR	8850-232-06-08	1.3/16-12UN	8850-AAA-12-12
1/2-20UNF	1/2-20UNF	8850-222-05-05	3/4-16UNF	9/16-18UNF/OR	8850-232-08-06	1.7/16-12UN	8850-AAA-16-16
9/16-18UNF	9/16-18UNF	8850-222-06-06	3/4-16UNF	3/4-16UNF/OR	8850-232-08-08	1.11/16-12UN	8850-AAA-20-20
9/16-18UNF	3/4-16UNF	8850-222-06-08	3/4-16UNF	7/8-14UNF/OR	8850-232-08-10		
3/4-16UNF	9/16-18UNF	8850-222-08-06	7/8-14UNF	7/8-14UNF/OR	8850-232-10-10		
3/4-16UNF	3/4-16UNF	8850-222-08-08	7/8-14UNF	1.1/16-12UN/OR	8850-232-10-12		
3/4-16UNF	7/8-14UNF	8850-222-08-10	1.1/16-12UN	7/8-14UNF/OR	8850-232-12-10		
3/4-16UNF	1.1/16-12UN	8850-222-08-12	1.1/16-12UN	1.1/16-12UN/OR	8850-232-12-12		
7/8-14UNF	3/4-16UNF	8850-222-10-08	1.3/16-12UN	1.3/16-12UN/OR	8850-232-14-14		
7/8-14UNF	7/8-14UNF	8850-222-10-10	1.5/16-12UN	1.1/16-12UN/OR	8850-232-16-12		
7/8-14UNF	1.1/16-12UN	8850-222-10-12	1.5/16-12UN	1.5/16-12UN/OR	8850-232-16-16		
1.1/16-12UN	9/16-18UNF	8850-222-12-06	1.5/8-12UN	1.5/8-12UN/OR	8850-232-20-20		
1.1/16-12UN	3/4-16UNF	8850-222-12-08	1.7/8-12UN	1.7/8-12UN/OR	8850-232-24-24		
1.1/16-12UN	7/8-14UNF	8850-222-12-10					
1.1/16-12UN	1.1/16-12UN	8850-222-12-12					
1.1/16-12UN	1.5/16-12UN	8850-222-12-16					
1.3/16-12UN	1.3/16-12UN	8850-222-14-14					
1.5/16-12UN	1.1/16-12UN	8850-222-16-12					
1.5/16-12UN	1.5/16-12UN	8850-222-16-16					
1.5/8-12UN	1.5/16-12UN	8850-222-20-16					
1.5/8-12UN	1.5/8-12UN	8850-222-20-20					
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2.1/2-12UN	2.1/2-12UN	8850-222-32-32					

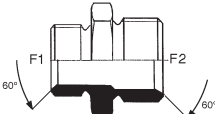
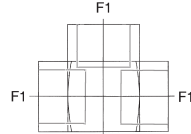
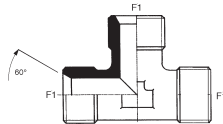
8850-666 NPTF			8850-888 BSPP			8854-227 UN(F) JIC 37°	
 <p style="text-align: center;">SAE 140438</p>						 <p style="text-align: center;">SAE 070443</p>	
F1 NPTF	F2 NPTF	Fe/Zn/YP REF.	F1 BSPP	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.
1/8NPTF	1/8NPTF	8850-666-02-02	G1/4	8850-888-04-04	7/16-20UNF	7/16-20UNF	8854-227-04-04
1/4NPTF	1/4NPTF	8850-666-04-04	G3/8	8850-888-06-06	1/2-20UNF	1/2-20UNF	8854-227-05-05
1/4NPTF	3/8NPTF	8850-666-04-06	G1/2	8850-888-08-08	9/16-18UNF	9/16-18UNF	8854-227-06-06
3/8NPTF	3/8NPTF	8850-666-06-06	G5/8	8850-888-10-10	3/4-16UNF	3/4-16UNF	8854-227-08-08
3/8NPTF	1/2NPTF	8850-666-06-08	G3/4	8850-888-12-12	7/8-14UNF	7/8-14UNF	8854-227-10-10
1/2NPTF	1/2NPTF	8850-666-08-08	G1	8850-888-16-16	1.1/16-12UN	1.1/16-12UN	8854-227-12-12
3/4NPTF	3/4NPTF	8850-666-12-12	G1.1/4	8850-888-20-20	1.3/16-12UN	1.3/16-12UN	8854-227-14-14
1NPTF	1NPTF	8850-666-16-16			1.5/16-12UN	1.5/16-12UN	8854-227-16-16
1.1/4NPTF	1.1/4NPTF	8850-666-20-20			1.5/8-12UN	1.5/8-12UN	8854-227-20-20
1.1/2NPTF	1.1/2NPTF	8850-666-24-24			1.7/8-12UN	1.7/8-12UN	8854-227-24-24
2NPTF	2NPTF	8850-666-32-32			2.1/2-12UN	2.1/2-12UN	8854-227-32-32

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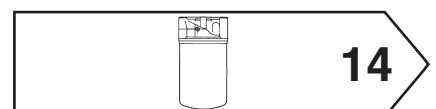
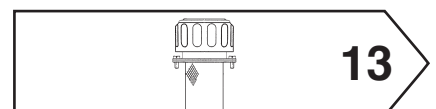
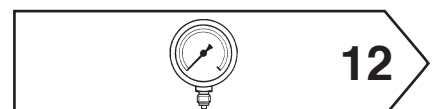
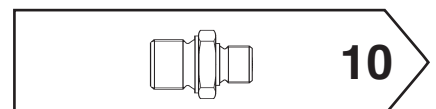
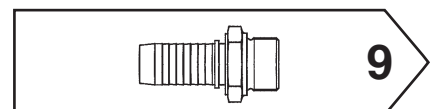
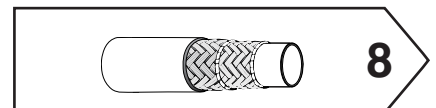
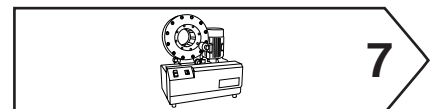
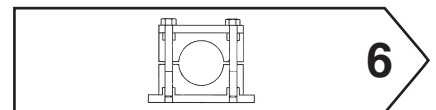
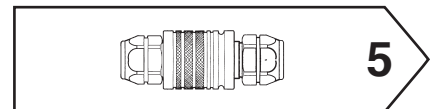
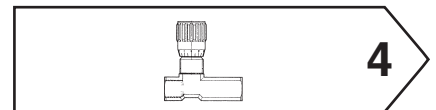
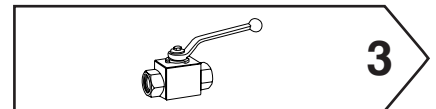
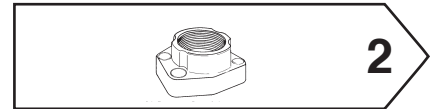
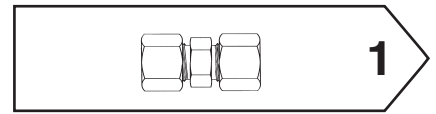
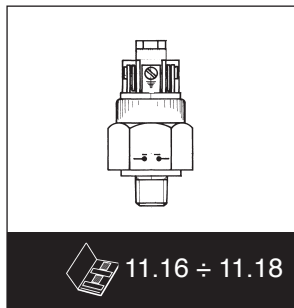
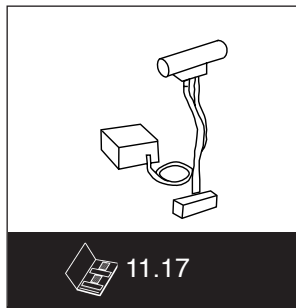
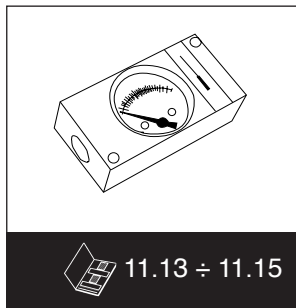
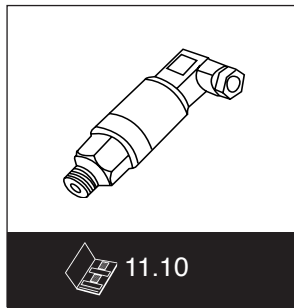
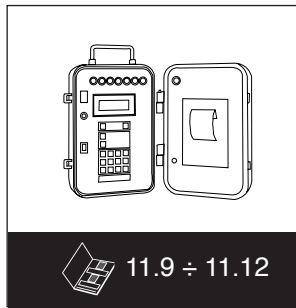
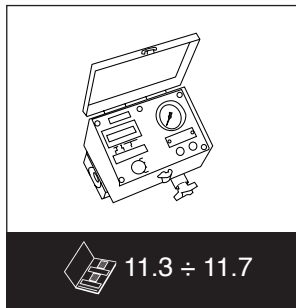
8854-448 BSPP 60°			8855-272 UN(F) JIC 37°			8855-484 BSPP 60°		
			 <p>SAE 070432</p>					
F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	F1 UN(F)	F2 UN(F)	Fe/Zn/YP REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.
G1/4"	G1/4"	8854-448-04-04	7/16-20UNF	7/16-20UNF	8855-272-04-04	G1/4"	G1/4"	8855-484-04-04
G3/8"	G3/8"	8854-448-06-06	1/2-20UNF	1/2-20UNF	8855-272-05-05	G3/8"	G3/8"	8855-484-06-06
G1/2"	G1/2"	8854-448-08-08	9/16-20UNF	9/16-20UNF	8855-272-06-06	G1/2"	G1/2"	8855-484-08-08
G3/4"	G3/4"	8854-448-12-12	3/4-16UNF	3/4-16UNF	8855-272-08-08	G3/4"	G3/4"	8855-484-12-12
G1"	G1"	8854-448-16-16	7/8-14UNF	7/8-14UNF	8855-272-10-10	G1"	G1"	8855-484-16-16
			1.1/16-12UN	1.1/16-12UN	8855-272-12-12			
			1.3/16-12UN	1.3/16-12UN	8855-272-14-14			
			1.5/16-12UN	1.5/16-12UN	8855-272-16-16			
			1.5/8-12UN	1.5/8-12UN	8855-272-20-20			
			1.7/8-12UN	1.7/8-12UN	8855-272-24-24			
			2.1/2-12UN	2.1/2-12UN	8855-272-32-32			
8860-6666 NPTF			8868-16 NPTF			8869-16 NPTF		
						 <p>SAE 140140</p>		
F1 NPTF		Fe/Zn/YP REF.	F1 NPTF	F2 NPTF	Fe/Zn/YP REF.	F1 NPTF	F2 NPTF	Fe/Zn/YP REF.
1/8NPTF		8860-6666-02-02	1/8NPTF	1/8NPTF	8868-16-02-02	1/4NPTF	1/8NPTF	8869-16-04-02
1/4NPTF		8860-6666-04-04	1/8NPTF	1/4NPTF	8868-16-02-04	3/8NPTF	1/8NPTF	8869-16-06-02
3/8NPTF		8860-6666-06-06	1/8NPTF	3/8NPTF	8868-16-02-06	3/8NPTF	1/4NPTF	8869-16-06-04
1/2NPTF		8860-6666-08-08	1/8NPTF	1/2NPTF	8868-16-02-08	1/2NPTF	1/8NPTF	8869-16-08-02
3/4NPTF		8860-6666-12-12	1/4NPTF	1/8NPTF	8868-16-04-02	1/2NPTF	1/4NPTF	8869-16-08-04
1NPTF		8860-6666-16-16	1/4NPTF	1/4NPTF	8868-16-04-04	1/2NPTF	3/8NPTF	8869-16-08-06
1.1/4NPTF		8860-6666-20-20	1/4NPTF	3/8NPTF	8868-16-04-06	3/4NPTF	1/8NPTF	8869-16-12-02
1.1/2NPTF		8860-6666-24-24	1/4NPTF	1/2NPTF	8868-16-04-08	3/4NPTF	1/4NPTF	8869-16-12-04
2NPTF		8860-6666-32-32	1/4NPTF	3/4NPTF	8868-16-04-12	3/4NPTF	3/8NPTF	8869-16-12-06
			3/8NPTF	1/8NPTF	8868-16-06-02	3/4NPTF	1/2NPTF	8869-16-12-08
			3/8NPTF	1/4NPTF	8868-16-06-04	1NPTF	1/8NPTF	8869-16-16-02
			3/8NPTF	3/8NPTF	8868-16-06-06	1NPTF	1/4NPTF	8869-16-16-04
			3/8NPTF	1/2NPTF	8868-16-06-08	1NPTF	3/8NPTF	8869-16-16-06
			3/8NPTF	3/4NPTF	8868-16-06-12	1NPTF	1/2NPTF	8869-16-16-08
			1/2NPTF	3/8NPTF	8868-16-08-06	1NPTF	3/4NPTF	8869-16-16-12
			1/2NPTF	1/2NPTF	8868-16-08-08	1.1/4NPTF	1/4NPTF	8869-16-20-04
			1/2NPTF	3/4NPTF	8868-16-08-12	1.1/4NPTF	3/8NPTF	8869-16-20-06
			1/2NPTF	1NPTF	8868-16-08-16	1.1/4NPTF	1/2NPTF	8869-16-20-08
			3/4NPTF	1/4NPTF	8868-16-12-04	1.1/4NPTF	3/4NPTF	8869-16-20-12
			3/4NPTF	3/8NPTF	8868-16-12-06	1.1/4NPTF	1NPTF	8869-16-20-16
			3/4NPTF	1/2NPTF	8868-16-12-08	1.1/2NPTF	3/8NPTF	8869-16-24-06
			3/4NPTF	3/4NPTF	8868-16-12-12	1.1/2NPTF	1/2NPTF	8869-16-24-08
			3/4NPTF	1NPTF	8868-16-12-16	1.1/2NPTF	3/4NPTF	8869-16-24-12
			3/4NPTF	1.1/4NPTF	8868-16-12-20	1.1/2NPTF	1NPTF	8869-16-24-16
			1NPTF	1/2NPTF	8868-16-16-08	1.1/2NPTF	1.1/4NPTF	8869-16-24-20
			1NPTF	3/4NPTF	8868-16-16-12	2NPTF	1/2NPTF	8869-16-32-08
			1NPTF	1NPTF	8868-16-16-16	2NPTF	3/4NPTF	8869-16-32-12
			1NPTF	1.1/4NPTF	8868-16-16-20	2NPTF	1NPTF	8869-16-32-16
			1NPTF	1.1/2NPTF	8868-16-16-24	2NPTF	1.1/4NPTF	8869-16-32-20
			1.1/4NPTF	1NPTF	8868-16-20-16	2NPTF	1.1/2NPTF	8869-16-32-24
			1.1/4NPTF	1.1/4NPTF	8868-16-20-20			
			1.1/4NPTF	1.1/2NPTF	8868-16-20-24			
			1.1/2NPTF	1.1/2NPTF	8868-16-24-24			
			1.1/2NPTF	2NPTF	8868-16-24-32			

8871/3871 BSPP				8872/3872 BSPP				8872/3872 BSPP			
											
F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	AISI 316 Ti REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	AISI 316 Ti REF.	F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	AISI 316 Ti REF.
G1/8	G1/8	8871-02	3871-02	G1/8	G1/8	8872-02		G1/4	G1/8	8872-04-02	3872-04-02
G1/4	G1/4	8871-04	3871-04	G1/4	G1/4	8872-04	3872-04	G3/8	G1/4	8872-06-04	3872-06-04
G1/4	G1/8	8871-04-02		G3/8	G3/8	8872-06	3872-06	G1/2	G1/4	8872-08-04	3872-08-04
G3/8	G3/8	8871-06	3871-06	G1/2	G1/2	8872-08	3872-08	G1/2	G3/8	8872-08-06	3872-08-06
G3/8	G1/4	8871-06-04		G5/8	G5/8	8872-10		G5/8	G1/2	8872-10-08	
G1/2	G1/2	8871-08	3871-08	G3/4	G3/4	8872-12	3872-12	G3/4	G3/8	8872-12-06	3872-12-06
G1/2	G3/8	8871-08-06		G1	G1	8872-16	3872-16	G3/4	G1/2	8872-12-08	3872-12-08
G5/8	G5/8	8871-10		G1.1/4	G1.1/4	8872-20	3872-20	G3/4	G5/8	8872-12-10	
G3/4	G3/4	8871-12	3871-12	G1.1/2	G1.1/2	8872-24	3872-24	G1	G1/2	8872-16-08	3872-16-08
G3/4	G1/2	8871-12-08		G2	G2	8872-32	3872-32	G1	G3/4	8872-16-12	3872-16-12
G1	G1	8871-16	3871-16					G1.1/4	G3/4	8872-20-12	3872-20-12
G1	G3/4	8871-16-12						G1.1/4	G1	8872-20-16	3872-20-16
G1.1/4	G1.1/4		3871-20					G1.1/2	G3/4	8872-24-12	
G1.1/2	G1.1/2		3871-24					G1.1/2	G1	8872-24-16	3872-24-16
G2	G2		3871-32					G1.1/2	G1.1/4	8872-24-20	3872-24-20
								G2	G1.1/4	8872-32-20	3872-32-20
								G2	G2.1/2	8872-32-24	3872-32-24
8873/3873 BSPP-BSPT				8874/3874 BSPP-NPTF				8971 BSPP			
											
F1 BSPP	F2 BSPT	Fe/Zn/YP REF.	AISI 316 Ti REF.	F1 BSPP	F2 NPTF	Fe/Zn/YP REF.	AISI 316 Ti REF.	F1 BSPP	Fe/Zn/YP REF.		
G1/8	R1/8	8873-02		G1/8	1/8NPTF	8874-02		G1/4"	8971-04		
G1/4	R1/4	8873-04	3873-04	G1/4	1/4NPTF	8874-04	3874-04	G3/8"	8971-06		
G3/8	R3/8	8873-06	3873-06	G3/8	3/8NPTF	8874-06	3874-06	G1/2"	8971-08		
G1/2	R1/2	8873-08	3873-08	G1/2	1/2NPTF	8874-08	3874-08	G3/4"	8971-12		
G3/4	R3/4	8873-12	3873-12	G3/4	3/4NPTF	8874-12	3874-12	G1"	8971-16		
G1	R1	8873-16	3873-16	G1	1NPTF	8874-16	3874-16				
G1.1/4	R1.1/4	8873-20	3873-20	G1.1/4	1.1/4NPTF	8874-20	3874-20				
G1.1/2	R1.1/2	8873-24	3873-24	G1.1/2	1.1/2NPTF	8874-24	3874-24				
G2	R2	8873-32	3873-32	G2	2NPTF	8874-32	3874-32				
8973 BSPT-BSPP											
											
F1 BSPT	F2 BSPP	Fe/Zn/YP REF.									
R1/4	G1/4	8973-04									
R3/8	G3/8	8973-06									
R1/2	G1/2	8973-08									
R3/4	G3/4	8973-12									
R1	G1	8973-16									
R1.1/4	G1.1/4	8973-20									

8978 BSPP			8982/3982 METR.				8982/3982 METR.			
										
F1 BSPP	F2 BSPP	Fe/Zn/YP REF.	F1 METR.	F2 METR.	Fe/Zn/YP REF.	AISI 316 Ti REF.	F1 METR.	F2 METR.	Fe/Zn/YP REF.	AISI 316 Ti REF.
G1/4	G1/4	8978-04	M10x1,0	M10x1,0	8982-10	3982-10	M12x1,5	M10x1,0	8982-12-10	3982-12-10
G3/8	G3/8	8978-06	M12x1,5	M12x1,5	8982-12	3982-12	M14x1,5	M12x1,5	8982-14-12	3982-14-12
G1/2	G1/2	8978-08	M14x1,5	M14x1,5	8982-14	3982-14	M16x1,5	M14x1,5	8982-16-14	3982-16-14
G5/8	G5/8	8978-10	M16x1,5	M16x1,5	8982-16	3982-16	M18x1,5	M16x1,5	8982-18-16	3982-18-16
G3/4	G3/4	8978-12	M18x1,5	M18x1,5	8982-18	3982-18	M22x1,5	M18x1,5	8982-22-18	3982-22-18
G1	G1	8978-16	M22x1,5	M22x1,5	8982-22	3982-22	M26x1,5	M22x1,5	8982-26-22	3982-26-22
G1.1/4	G1.1/4	8978-20	M26x1,5	M26x1,5	8982-26	3982-26	M30x1,5	M26x1,5	8982-30-26	3982-30-26
G1.1/2	G1.1/2	8978-24	M30x1,5	M30x1,5	8982-30	3982-30	M38x1,5	M30x1,5		3982-38-30
							M45x1,5	M38x1,5		3982-45-38
							M52x1,5	M45x1,5		3982-52-45
 8846-48  10.15										

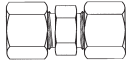
8983 METR.-BSPP			8991 BSPP			8992 BSPP		
								
F1 METR.	F2 BSPP	Fe/Zn/YP REF.	F1 BSPP		Fe/Zn/YP REF.	F1 BSPP		Fe/Zn/YP REF.
M10x1,0	G1/4	8983-10-04	G1/8		8991-02	G1/4		8992-04
M12x1,5	G1/4	8983-12-04	G1/4		8991-04	G3/8		8992-06
M12x1,5	G3/8	8983-12-06	G3/8		8991-06	G1/2		8992-08
M14x1,5	G1/4	8983-14-04	G1/2		8991-08	G3/4		8992-12
M14x1,5	G3/8	8983-14-06	G3/4		8991-12	G1		8992-16
M16x1,5	G1/4	8983-16-04	G1		8991-16	G1.1/4		8992-20
M16x1,5	G3/8	8983-16-06	G1.1/4		8991-20			
M16x1,5	G1/2	8983-16-08						
M18x1,5	G3/8	8983-18-06						
M18x1,5	G1/2	8983-18-08						
M18x1,5	G3/4	8983-18-12						
M20x1,5	G1/4	8983-20-04						
M20x1,5	G3/8	8983-20-06						
M20x1,5	G1/2	8983-20-08						
M20x1,5	G3/4	8983-20-12						
M22x1,5	G3/8	8983-22-06						
M22x1,5	G1/2	8983-22-08						
M22x1,5	G5/8	8983-22-10						
M22x1,5	G3/4	8983-22-12						
M24x1,5	G3/8	8983-24-06						
M24x1,5	G1/2	8983-24-08						
M24x1,5	G3/4	8983-24-12						
M26x1,5	G1/2	8983-26-08						
M26x1,5	G5/8	8983-26-10						
M26x1,5	G3/4	8983-26-12						

ATZ Aandrijftechniek B.V. (026-3112611)



ATZ Aandrijftechniek B.V. (026-3112611)

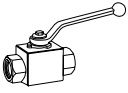
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2



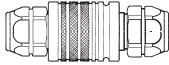
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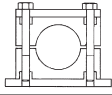
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5



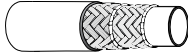
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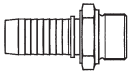
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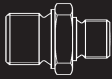
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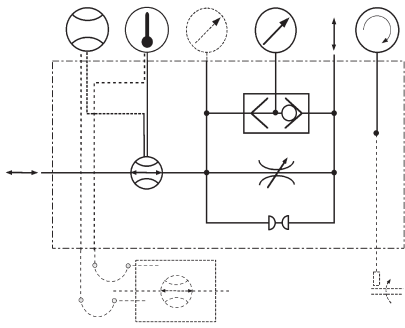
9



10



ATZ Aandrijftechniek B.V. (026-3112611)



1101-4 1102-4
1104-4 1104-5

BI-DIRECTIONAL

Testapparaat met smoorventiel
Testeur avec vanne d'étranglement
Tester with loading valve
Testgerät mit Drosselventil



Voor het testen van hydraulische pompen, motoren, ventielen en hydrostatische aandrijvingen etc. in twee stroomrichtingen.	Pour tester les pompes hydrauliques, moteurs, vannes et transmissions hydrostatiques en deux directions.
For testing of hydraulic pumps, motors, valves and hydrostatic transmissions in two flow directions.	Für Prüfung von Hydraulikpumpen, Motoren, Ventilen und hydrostatischen Getrieben in zwei Stromrichtungen.

REF	1101-4	1102-4	1104-4	1104-5
SYMBOL				
	9999 ¹⁾ 10-300 LPM 2,2-66 UK GPM 2,6-79 US GPM	15-400 LPM 3,3-88 UK GPM 3,9-105 US GPM	25-800 LPM 5,5-176 UK GPM 6,6-211 US GPM	25-800 LPM 5,5-176 UK GPM 6,6-211 US GPM
	420 BAR	420 BAR	350 BAR	480 BAR
	0-420 BAR 0-6000 PSI	0-420 BAR 0-6000 PSI	420 BAR 0-6000 PSI	600 BAR 0-8500 PSI
	9999 ²⁾ 0-120 °C 32-248 °F	0-120 °C 32-248 °F	0-120 °C 32-248 °F	0-120 °C 32-248 °F
	9999 ⁴⁾ 300-6000 RPM	300-6000 RPM	300-6000 RPM	300-6000 RPM
	G1" BSPP	G1" BSPP	REF.1093... SAE 1.1/2" UNC	1.7/8" UNF-OR
	FKM (VITON®)	FKM (VITON®)	FKM (VITON®)	FKM (VITON®)
	7,7 kg	7,7 kg	10 kg	10 kg
	± 435 BAR REF. 1123-3-420 (2x)	± 435 BAR REF. 1123-3-420 (2x)	± 360 BAR REF. 1123-4-370 (2x)	± 500 BAR REF. 1123-4-480 (2x)
	240x205x180 mm	240x205x180 mm	255x215x205 mm	255x215x205 mm
	9 Volt	9 Volt	9 Volt	9 Volt

Accessoires-Accessories-Zubehör
foto-electrische toerenteller
compte-tours photo-électrique
photo-electric tachometer
Foto-elektrische Drehzahlmesser

REF. 1123-2



externe doorstroomblokken
bloc de débit extérieure
external flow blocks
externe Durchflußblöcke

REF. 1145-51

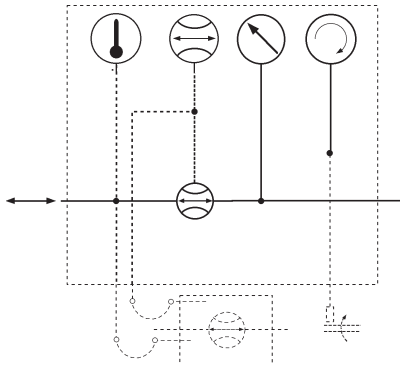


Accessoires-Accessories-Accessories-Zubehör

SYMBOL	DESCRIPTION	REF.	REF.
	0,1 ÷ 800 LPM	1145-51	11.11
	300-6000 RPM	1123-2	11.7
	2x 1,5 V (AA)	-	-

Nauwkeurigheid / Précision / Accuracy / Genauigkeit 1) ±1%, reverse 1% FS, 2) ± 1°C; 3) ± 1,6 % FS, 4) 1% FS.

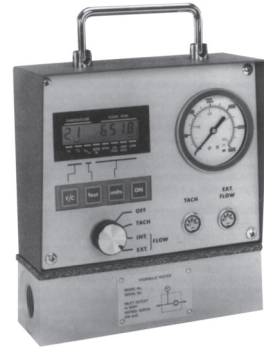
ATZ Aandrijftechniek B.V. (026-3112611)



**1124-2 1125-2
1126-2**

BI-DIRECTIONAL

**Testapparaat
Testeur
Tester
Testgerät**



Voor het testen van hydraulische pompen, motoren, ventielen en hydrostatische aandrijvingen etc. in twee stroomrichtingen.

Pour tester les pompes hydrauliques, moteurs, vannes et transmissions hydrostatiques en deux directions.

For testing of hydraulic pumps, motors, valves and hydrostatic transmissions in two flow directions.

Für Prüfung von Hydraulikpumpen, Motoren, Ventilen und hydrostatischen Getrieben in zwei Stromrichtungen.

REF	1124-2	1125-2	1126-2	
SYMBOL				
	4-60 LPM 0,88-13 UK GPM 1,05-16 US GPM	6-125 LPM 1,3-27 UK GPM 1,6-33 US GPM	10-300 LPM 2,2-66 UK GPM 2,6-79 US GPM	
	420 BAR	420 BAR	420 BAR	
	0-120 °C 32-248 °F	0-120 °C 32-248 °F	0-120 °C 32-248 °F	
	300-6000 RPM	300-6000 RPM	300-6000 RPM	
	in G3/4" BSPP out G3/4" BSPP	in G3/4" BSPP out G3/4" BSPP	in G1" BSPP out G1" BSPP	
	FKM (VITON®)	FKM (VITON®)	FKM (VITON®)	
	4,0 kg	4,0 kg	4,0 kg	
	190x210x85 mm	190x210x85 mm	190x210x85 mm	
	9 Volt	9 Volt	9 Volt	

Accessoires-Accessoires-Accessories-Zubehör

foto-electrische toerenteller
compte-tours photo-électrique
photo-electric tachometer
Foto-elektrische Drehzahlmesser

REF. 1123-1



externe doorstroomblokken
bloc de débit extérieure
external flow blocks
externe Durchflußblöcke

REF. 1145-51

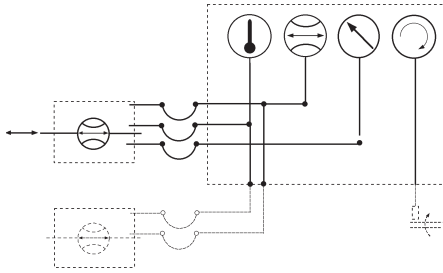


Accessoires-Accessoires-Accessories-Zubehör

		REF.	
		1145-51	11.11
		1123-1	11.7
		-	-

Nauwkeurigheid / Précision / Accuracy / Genauigkeit
1) ±1%, reverse 1% FS, 2) ± 1°C; 3) ± 1,6 % FS, 4) 1% FS.

ATZ Aandrijftechniek B.V. (026-3112611)



**1124-4 1125-4
1126-5 1126-6**

BI-DIRECTIONAL

**Testapparaat
Testeur
Tester
Testgerät**



Voor het testen van hydraulische pompen, motoren, ventielen en hydrostatische aandrijvingen etc. in twee stroomrichtingen.

Pour tester les pompes hydrauliques, moteurs, vannes et transmissions hydrostatiques en deux directions.

For testing of hydraulic pumps, motors, valves and hydrostatic transmissions in two flow directions.

Für Prüfung von Hydraulikpumpen, Motoren, Ventilen und hydrostatischen Getrieben in zwei Stromrichtungen.

REF	1124-4	1125-4	1126-5	1126-6
SYMBOL				
	1,5-50 LPM 0,33-11 UK GPM 0,39-13 US GPM	3-125 LPM 0,66-27 UK GPM 0,79-33 US GPM	8-300 LPM 1,76-66 UK GPM 2,1-79 US GPM	15-400 LPM 3,3-88 UK GPM 4-105 US GPM
	420 BAR	420 BAR	420 BAR	420 BAR
	420 BAR 6000 PSI	420 BAR 6000 PSI	420 BAR 6000 PSI	420 BAR 6000 PSI
	0-120 °C 32-248 °F	0-120°C 32-248 °F	0-120°C 32-248 °F	0-120°C 32-248 °F
	300-6000 RPM	300-6000 RPM	300-6000 RPM	300-6000 RPM
	in G3/4" BSPP out G3/4" BSPP	in G3/4" BSPP out G3/4" BSPP	in G1" BSPP out G1" BSPP	in G1" BSPP out G1" BSPP
	FKM (VITON®)	FKM (VITON®)	FKM (VITON®)	FKM (VITON®)
	2,0 kg	2,0 kg	2,0 kg	2,0 kg
	152x191x84 mm	152x191x84 mm	152x191x84 mm	152x191x84 mm
	9 Volt	9 Volt	9 Volt	9 Volt

Accessoires-Accessoires-Accessories-Zubehör

foto-electrische toerenteller
compte-tours photo-électrique
photo-electric tachometer
Foto-elektrische Drehzahlmesser

REF. 1123-1



externe doorstroomblokken
bloc de débit extérieure
external flow blocks
externe Durchflußblöcke

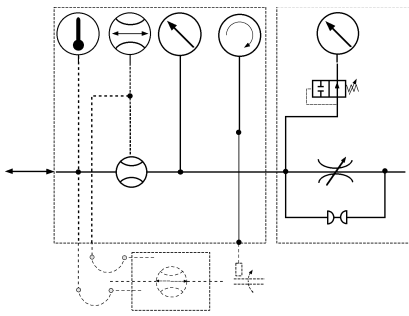
REF. 1145-51



Accessoires-Accessoires-Accessories-Zubehör

			REF.	
		0,1 ÷ 800 LPM	1145-51	11.11
		300-6000 RPM	1123-1	11.7
		2x 1,5 V (AA)	-	-

Nauwkeurigheid / Précision / Accuracy / Genauigkeit
1) ±1%, reverse 1% FS, 2) ± 1°C; 3) ± 1,6 % FS, 4) 1% FS.



1128-2
1142-2

BI-DIRECTIONAL

Testapparaat met smoorventiel
Testeur avec vanne d'étranglement
Tester with loading valve
Testgerät mit Drosselventil



Voor het testen van hydraulische pompen, motoren, ventielen en hydrostatische aandrijvingen etc. in twee stroomrichtingen.	Pour tester les pompes hydrauliques, moteurs, vannes et transmissions hydrostatiques en deux directions.
For testing of hydraulic pumps, motors, valves and hydrostatic transmissions in two flow directions.	Für Prüfung von Hydraulikpumpen, Motoren, Ventilen und hydrostatischen Getrieben in zwei Stromrichtungen.

REF	1128-2	1142-2		
SYMBOL				
	6-125 LPM 1,3-27 UK GPM 1,6-33 US GPM	4-60 LPM 0,88-13 UK GPM 1,05-16 US GPM		
	420 BAR	420 BAR		
	0-420 BAR & 0-40 BAR 0-6000 PSI & 0-580 PSI	0-420 BAR & 0-40 BAR 0-6000 PSI & 0-580 PSI		
	0-120 °C 32-248 °F	0-120 °C 32-248 °F		
	300-6000 RPM	300-6000 RPM		
	in G3/4" BSPP out G1/2" BSPP	in G3/4" BSPP out G1/2" BSPP		
	FKM (VITON®)	FKM (VITON®)		
	5,0 kg	5,0 kg		
	± 435 BAR	± 435 BAR		
	REF. 1123-3-420 (2x)	REF. 1123-3-420 (2x)		
	210x311x107 mm	210x311x107 mm		
	9 Volt	9 Volt		

Accessoires-Accessoires-Accessories-Zubehör

foto-electrische toerenteller
compte-tours photo-électrique
photo-electric tachometer
Foto-elektrische Drehzahlmesser

REF. 1123-1



externe doorstroomblokken
bloc de débit extérieure
external flow blocks
externe Durchflußblöcke

REF. 1145-51



11

Accessoires-Accessoires-Accessories-Zubehör



				REF.	
		0,1 ÷ 800 LPM		1145-51	11.11
		300-6000 RPM		1123-1	11.7
		2x 1,5 V (AA)		-	-

	REF.	REF.
	1110-1	1123-1
	REF.	
	1111-1	

1123-1

Foto-electrische toerenteller
Compte-tours photo-électrique
Photo-electric tachometer
Foto-elektrische Drehzahlmesser





	REF.	REF.
	1114-1	1123-2
	REF.	
	1111-1	

1123-2

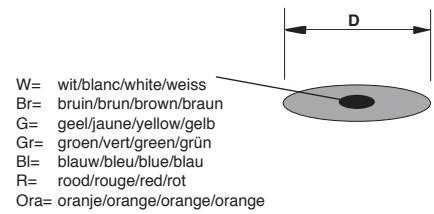
Foto-electrische toerenteller
Compte-tours photo-électrique
Photo-electric tachometer
Foto-elektrische Drehzahlmesser




Ø D	 BAR		REF.
16	70-76	W	1123-3-070
	140-150	Br	1123-3-140
	210-225	G	1123-3-210
	275-305	Gr	1123-3-280
	345-380	Bl	1123-3-370
	415-455	R	1123-3-420
	480-530	Ora	1123-3-480
22	70-76	W	1123-4-070
	140-150	Br	1123-4-140
	210-225	G	1123-4-210
	275-305	Gr	1123-4-280
	345-380	Bl	1123-4-370
	415-455	R	1123-4-420
	480-530	Ora	1123-4-480

1123-3
1123-4

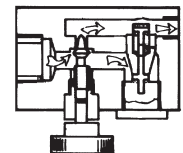
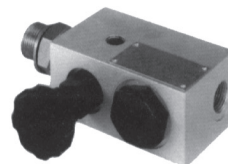
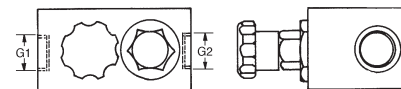
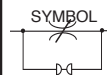
Breekplaatje
Pastille de sécurité
Safety disc
Sicherheitsplatte



BAR Max.	 ± BAR	G1	G2	REF.
440	435*	G3/4 male	G1/2 female	1144-1
440	435*	1.5/16UN OR	1.5/16UN OR	1144-12

1144-1
1144-12

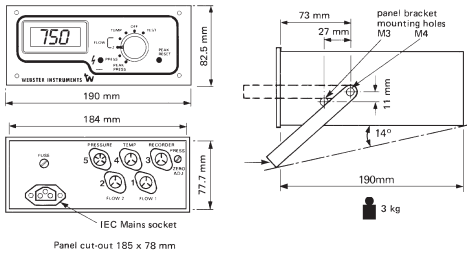
Smoorventiel (met breekplaat)
Vanne d'étranglement
(avec pastille de sécurité)
Loading valve (with safety disc)
Drosselventil (mit Sicherheitsplatte)



*  REF. 1123-3-420 (2x)

**1145-01 1145-02
1145-03 1145-04**

**Digitaal uitleesapparaat
Unité de lecture digital
Digital read-out
Digitales Anzeigegerät**



REF	1145-01	1145-02	1145-03	1145-04
SYMBOL				
CH1 ¹⁾	-	0,1-800 LPM	0,1-800 LPM	0,1-800 LPM
CH2 ¹⁾	-	0,1-800 LPM	0,1-800 LPM	0,1-800 LPM
	0-400/600 BAR 0-40/60 BAR	-	-	0-420/600 BAR
	0-600 BAR	-	-	0-420/600 BAR
	-	-	20/90°C	20/90°C
	DIN 3 pin 0-1 Volt (1 channel)	DIN 3 pin 0-1 Volt (1 channel)	DIN 3 pin 0-1 Volt (1 channel)	DIN 3 pin 0-1 Volt (1 channel)
	BxLxH 190x190x82,5 mm	BxLxH 190x190x82,5 mm	BxLxH 190x190x82,5 mm	BxLxH 190x190x82,5 mm
	220+12V	220+12V	220+12V	220+12V

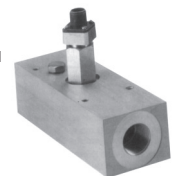
Accessoires-Accessoires-Accessories-Zubehör

Druktransmitter
Transmetteur de pression
Pressure transducer
Druckaufnehmer



REF. 1145-06

externe doorstroomblokken
bloc de débit extérieure
external flow blocks
externe Durchfließblöcke



REF. 1145-51

11

Accessoires-Accessoires-Accessories-Zubehör

									REF.*
	A ¹⁾ LPM	B ²⁾ LPM			B	L	H		
	0,1-5	0,15-10	350	700	69	63	50	G1/4	1145-51-005
	0,2-10	0,25-16	350	700	69	63	50	G1/4	1145-51-010
	8-50	2-60	350	700	64	191	51	G3/4	1145-51-050
	12-120	5-150	350	700	64	191	51	G3/4	1145-51-125
	20-220	10-300	350	700	64	191	51	G1	1145-51-250
	30-300	10-400	350	700	64	191	51	G1	1145-51-400
	45-450	20-600	350	700	102	213	76	SAE 1.1/2" 3000 PSI	1145-51-500
	50-700	30-800	350	700	102	213	76	SAE 1.1/2" 3000 PSI	1145-51-750
					L = 6 mtr				1145-53-01

Nauwkeurigheid / Précision / Accuracy / Genauigkeit 1) ±1% FS; 2) ±2% FS; 3) 1°C

				REF.*
				40 400

	REF.
L	1145-53-02
6 m	

* 1145-01 ÷ 1145-04 → ← 1145-51-...: calibreren, calibrer, calibrate, kalibrieren

1145

DATA LOGGER

Digitaal testapparaat
Testeur digital
Digital tester
Digital Testgerät



PRODUCT INFO

6-kanaals data logger voor het meten en opslaan van drukken, piekdrukken, doorstromingen, temperaturen en toerentallen.

Système d'acquisition de mesure avec 6 lignes pour l'enregistrement des valeurs de pression, pointe de pression, température et débit.

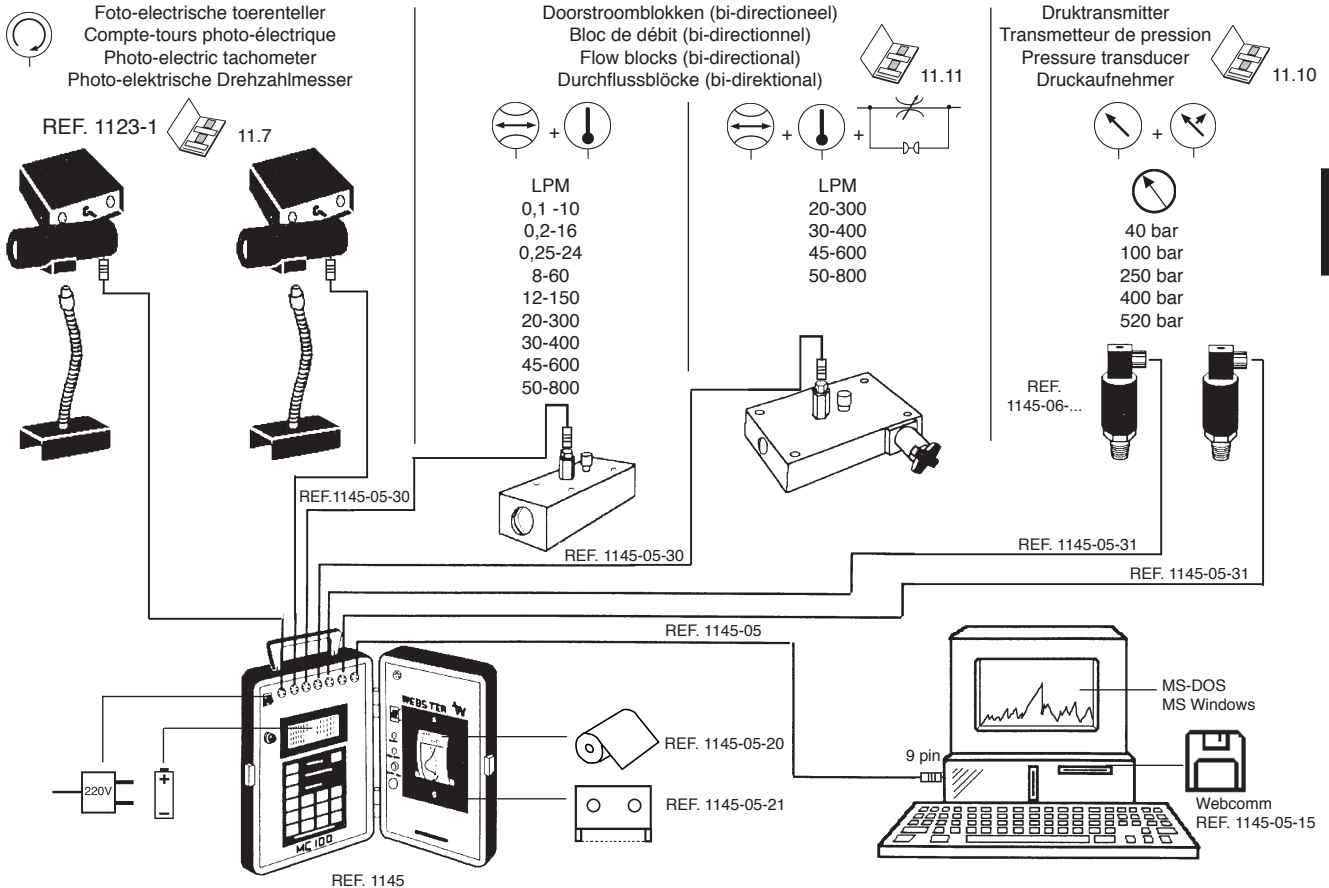
6-channel data logger for measuring and saving of pressures, peak pressures, flows, temperatures and speed of revolutions.

6-Kanal Datenlogger für Messung und Speicherung von Drücke, Höchstdrücke, Temperatur und Drehzahlen.

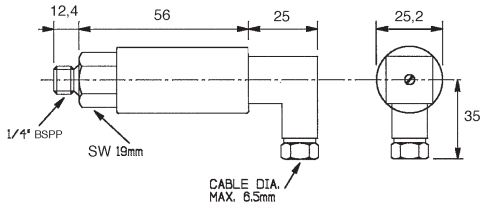
CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2						REF.
1) 9999 BAR, PSI Kg/cm2 MPa % PK/HP	1) 9999 BAR, PSI Kg/cm2 MPa % PK/HP	2) 9999 LPM UK GPM US GPM %	2) 9999 LPM UK GPM US GPM %	1) 9999 BAR, PSI Kg/cm2 MPa % PK/HP	1) 9999 BAR, PSI Kg/cm2 MPa % PK/HP	3) 9999 °C °F	3) 9999 °C °F	3) 9999 RPM	3) 9999 RPM		RAM	LxBxH mm	kg		
BAR max. 400	BAR max. 400	LPM 0,3÷800	LPM 0,3÷800	BAR max. 600	BAR max. 600	°C 0-120	°C 0-120	RPM 0-10.000	RPM 0-10.000	RS 232 RS 232 RS 232	- x x	128kb 128kb 256kb	303 x202 x126	5,5	1145-04-48 1145-05-48 1145-05-96

Nauwkeurigheid / Précision / Accuracy / Genauigkeit 1) 0,5% FS; 2) 1% FS; 3) 1% FS

Accessoires - Accessoires - Accessories - Zubehör







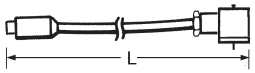



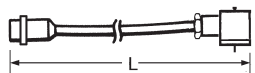





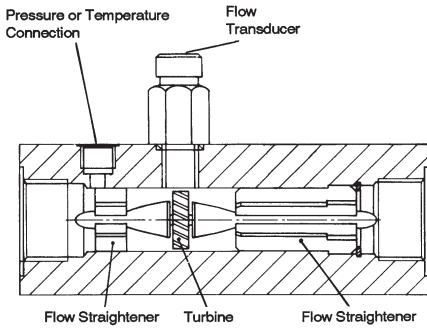
1145-06



Druktransmitter
Transmetteur de pression
Pressure transducer
Druckaufnehmer

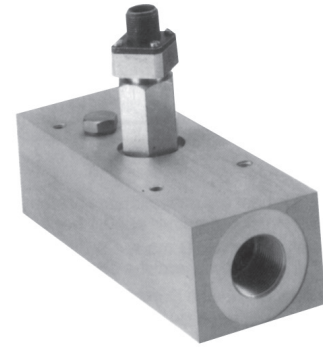
Druktransmitter voor hydrauliek, olie, gas, water en andere drukmedia.	Transmetteur de pression pour hydraulique, huile, gaz, eau, et autre liquides.
Pressure transducer designed for hydraulics, oil, gas, water and other pressure media.	Druckaufnehmer für Hydrauliek, Öl, Gaz, Wasser und andere Druckmedium.

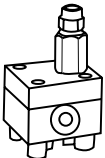
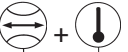




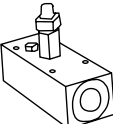
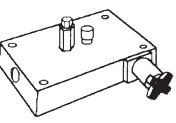
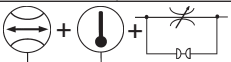



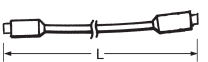

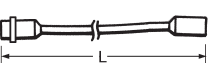
			Output 0-100 mV			REF.	
BAR	MAX.	°C	 REF.				
0-10 0-25 0-40 0-100 0-250 0-400 0-600	+50%	-20/+80 -20/+80 -20/+80 -20/+80 -20/+80 -20/+80 -20/+80	 REF.			1145-01 1145-02 1145-03 1145-04 11.8	1145-06-010 1145-06-025 1145-06-040 1145-06-100 1145-06-250 1145-06-400 1145-06-600
			 REF.			1145-01 1145-02 1145-03 1145-04 11.8	L = 6 mtr 1145-53-02
			 REF.			1145-04-48 1145-05-48 1145-05-96 11.9	L = 6 mtr 1145-05-31



1145-51

Doorstroomblok
Bloc de débit
Flow block
Durchflussblock

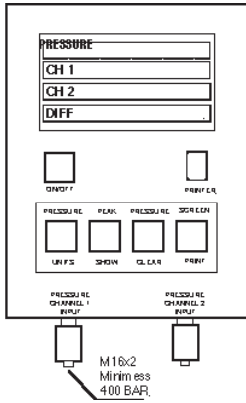


									REF.
	LPM1)	LPM2)	BAR	BAR	B	L	H	F BSPP/SAE	
	0,1-5 0,2-10	0,15-10 0,25-16	350 350	700 700	69 69	63 63	50 50	G1/4 G1/4	1145-51-005 1145-51-010
	8-50 12-120 20-220 30-300 45-450 50-700	2-60 5-150 10-300 10-400 20-600 30-800	350 350 350 350 350 350	700 700 700 700 700 700	64 64 64 64 102 102	191 191 191 191 213 213	51 51 51 51 76 76	G3/4 G3/4 G1 G1 SAE 1.1/2" 3000 PSI SAE 1.1/2" 3000 PSI	1145-51-050 1145-51-125 1145-51-250 1145-51-400 1145-51-500 1145-51-750
									REF.
	20-300 30-400 50-800 50-800 34-1325		400 400 350 500	800 800 700 1000				G1 G1 SAE 1.1/2" 3000 PSI 1.7/8 UNF-OR SAE 2" 6000 PSI	1145-51-250STP 1145-51-400STP 1145-51-750STP 1145-51-751STP
					L = 6 mtr				REF.
					L = 6 mtr			1101-4 1102-4 1104-4 1124-2 1124-4 1125-2 1125-4 1126-2 1126-5 1126-6 1128-2 1142-2 1145-01 1145-02 1145-03 1145-04	1145-53-01
					L = 6 mtr			1145-04-48 1145-05-48 1145-05-96	1145-05-30

Nauwkeurigheid / Précision / Accuracy / Genauigkeit

1) 1% FS

2) 2% FS



1145-53

ΔP

Digitale (verschil)drukmeter
Unité pour mesure (de différence) de pression
Digital (differential) pressure meter
Digital (Differenz) Druckmesser



PRODUCT INFO

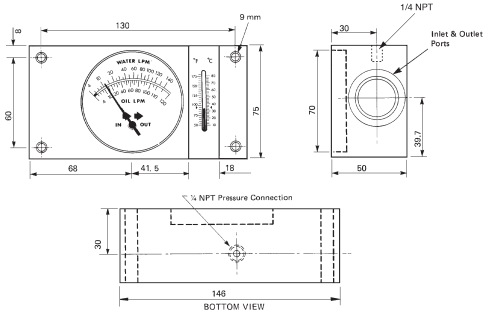
<p>Dragbaar testapparaat voor het meten en registreren van druk, piekdruk en verschilddruk in hydraulische systemen.</p>	<p>Testeur portatif pour l'enregistrement des valeurs de pression, pointe de pression, différence de pression dans les systèmes hydrauliques.</p>
<p>Portable digital tester for measuring and registration of pressure, peak pressure and differential pressure in hydraulic systems.</p>	<p>Tragbares Testgerät für das messen und registrieren von Druck, Höchstdruck und Differenzdruck in hydraulischen Systemen.</p>

CH1	CH2	ΔP CH1-CH2	CH1	CH2						REF.
 BAR, PSI Kg/cm ² MPa	 BAR, PSI Kg/cm ² MPa	 BAR, PSI Kg/cm ² MPa	 BAR, PSI Kg/cm ² MPa	 BAR, PSI Kg/cm ² MPa	°C	LxBxH mm	kg	Volt		1145-53
BAR1) max. 400	BAR1) max. 400	BAR max. 400	BAR max. 600	BAR max. 600	-40/+125	210x165x90	4,4	4x1,5 (AA)	Minimes M16x2	9 pins type D 9600 baud 8, N, 1
										12.18

Nauwkeurigheid / Précision / Accuracy / Genauigkeit
 1) +/- 0,4% FS.

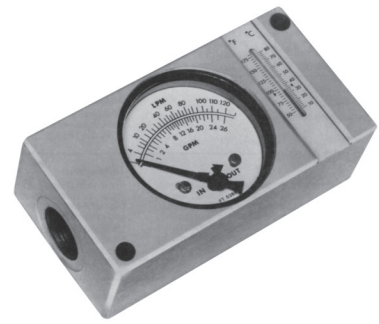


Koffer
 Mallette
 Case
 Koffer



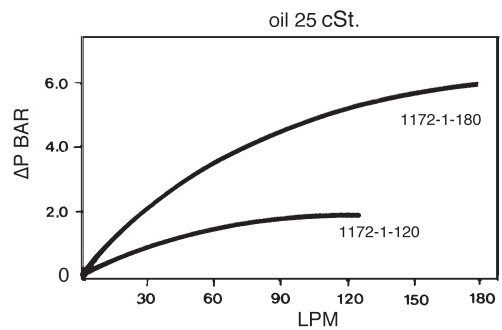
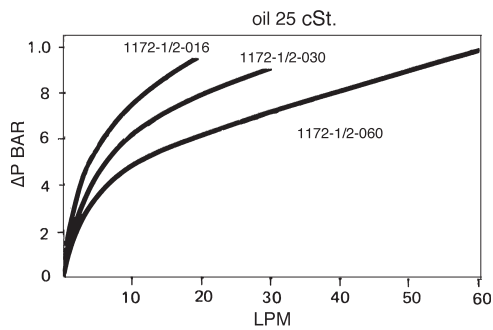
1172-1
1172-2
1172-3

Doorstroommeter - olie/water
Débitmètre - huile/eau
Flow meter - oil/water
Durchflussmesser - Öl/Wasser

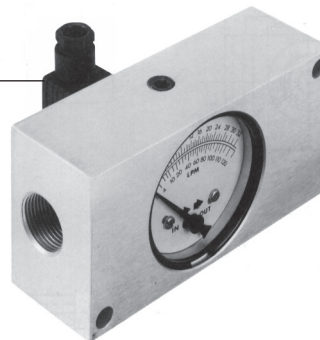


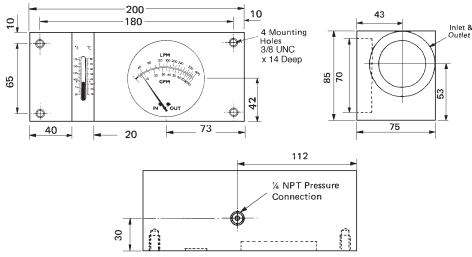
											REF.
OIL LPM	OIL GPM (UK)		BAR	°C		°F	in BSPP				
1-16	0,3-3,5	420	10-80	50-180	1/4"	G3/4"	G3/4"	ALU	146x75x50	1,36	1172-1-016T
2-30	0,5-8	420	10-80	50-180	1/4"	G3/4"	G3/4"	ALU	146x75x50	1,36	1172-1-030T
3-60	0,8-14	420	10-80	50-180	1/4"	G3/4"	G3/4"	ALU	146x75x50	1,36	1172-1-060T
5-120	1,2-26	420	10-80	50-180	1/4"	G3/4"	G3/4"	ALU	146x75x50	1,36	1172-1-120T
8-180	2-40	420	10-80	50-180	1/4"	G3/4"	G3/4"	ALU	146x75x50	1,36	1172-1-180T
2-30	0,5-8	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-2-030T
3-60	0,8-14	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-2-060T
5-120	1,2-26	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-2-120T
8-180	2-40	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-2-180T
OIL LPM	WATER LPM										
2-30	2-35	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-3-030T
3-60	3-70	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-3-060T
5-120	5-140	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-3-120T
	10-200	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-3-200T
	20-400	420	10-80	50-180	1/4"	G3/4"	G3/4"	Brs	146x75x50	4,25	1172-3-400T

Nauwkeurigheid / Précision / Accuracy / Genauigkeit
1) 28 cSt ± 4% FS; 2) ± 2°C.



Met stromingsschakelaar
Avec commutateur de débit
Inclusive flow switch
Mit Durchflussschalter

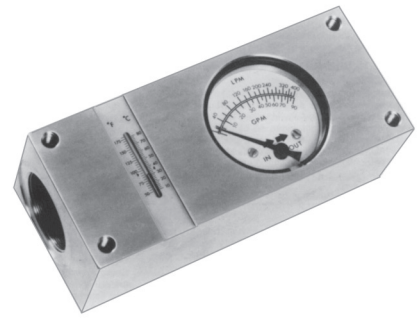




1172-4
1172-5



Doorstroommeter - olie
Débitmètre - huile
Flow meter - oil
Durchflussmesser - Öl

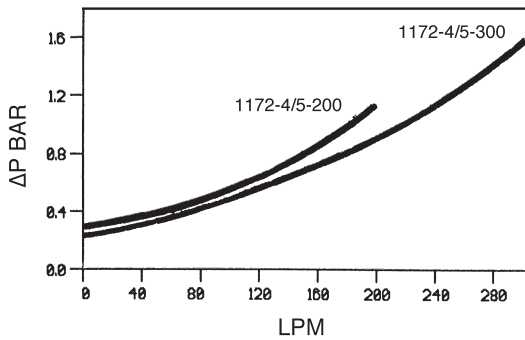


											REF.
OIL LPM	OIL GPM (UK)	max. BAR	°C	°F	NPTF	in BSPP	out BSPP	ALU/CuSn	mm LxBxH	kg	
10-200	0,5-44	280	10-80	50-180	1/4NPTF	G1.1/2	G1.1/2	ALU	200x85x75	3	1172-4-200T
15-300	3,3-66	280	10-80	50-180	1/4NPTF	G1.1/2	G1.1/2	ALU	200x85x75	3	1172-4-300T
20-400	4,4-90	280	10-80	50-180	1/4NPTF	G1.1/2	G1.1/2	ALU	200x85x75	3	1172-4-400T
10-200	0,5-44	280	10-80	50-180	1/4NPTF	G1.1/2	G1.1/2	CuSn	200x85x75	8	1172-5-200T
15-300	3,3-66	280	10-80	50-180	1/4NPTF	G1.1/2	G1.1/2	CuSn	200x85x75	8	1172-5-300T
20-400	4,4-90	280	10-80	50-180	1/4NPTF	G1.1/2	G1.1/2	CuSn	200x85x75	8	1172-5-400T

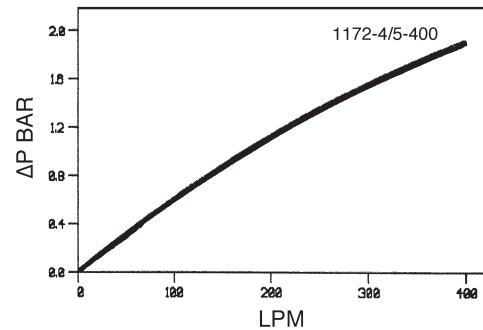
Nauwkeurigheid / Précision / Accuracy / Genauigkeit

1) ± 4% FS; 2) ± 2% FS.

oil 25 cSt.

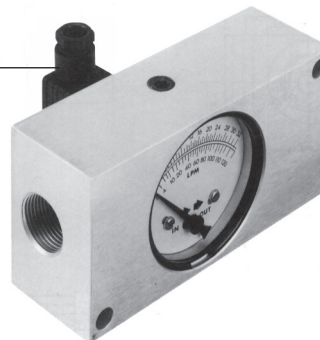


oil 25 cSt.



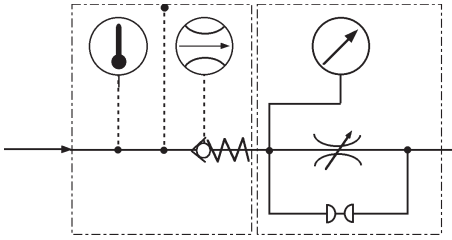
11

Met stromingsschakelaar
Avec commutateur de débit
Inclusive flow switch
Mit Durchflussschalter



1173-1

Testapparaat
Testeur
Tester
Testgerät



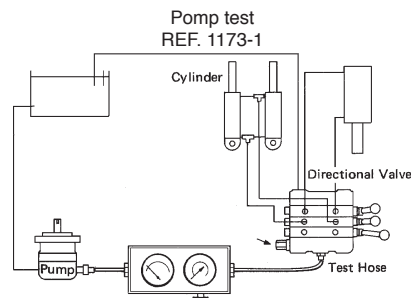
PRODUCT INFO

Voor het testen van hydraulische systemen in één stroomrichting.	Pour tester les systèmes hydrauliques dans une seule direction.
For testing of hydraulic systems in one flow direction.	Für Prüfung von Hydrauliksystemen in einer Richtung.

REF	1173-1-030T	1173-1-060T	1173-1-120T	1173-1-180T
SYMBOL				
	2-30 LPM 0,5-8 UK GPM	3-60 LPM 0,8-14 UK GPM	5-120 LPM 1,2-26 UK GPM	8-180 LPM 2-40 UK GPM
	0-420 BAR 0-6000 PSI	0-420 BAR 0-6000 PSI	0-420 BAR 0-6000 PSI	0-420 BAR 0-6000 PSI
	10-80 °C 50-180°F	10-80°C 50-180°F	10-80°C 50-180°F	10-80°C 50-180°F
	in G3/4" BSPP out G1/2" BSPP	in G3/4" BSPP out G1/2" BSPP	in G3/4" BSPP out G1/2" BSPP	in G3/4" BSPP out G3/4" BSPP
	FKM (VITON®)	FKM (VITON®)	FKM (VITON®)	FKM (VITON®)
	4,5 kg	4,5 kg	4,5 kg	4,5 kg
	± 435 BAR	± 435 BAR	± 435 BAR	± 435 BAR
	REF. 1123-3-420	REF. 1123-3-420	REF. 1123-3-420	REF. 1123-3-420
	350x125x115 mm	350x125x115 mm	350x125x115 mm	350x125x115 mm
P 28 cSt.	3 BAR / 30 LPM	5 BAR / 60 LPM	15 BAR / 120 LPM	25 BAR / 180 LPM

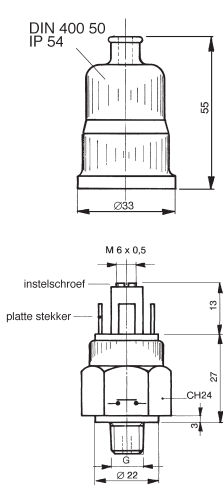
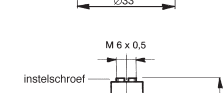

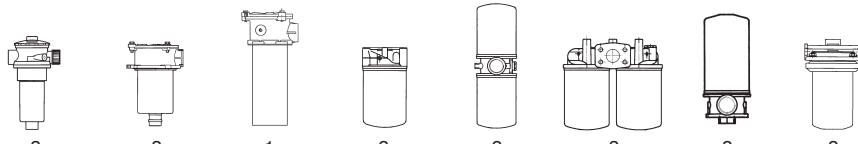
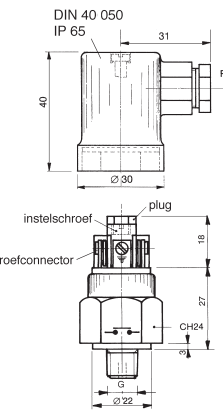
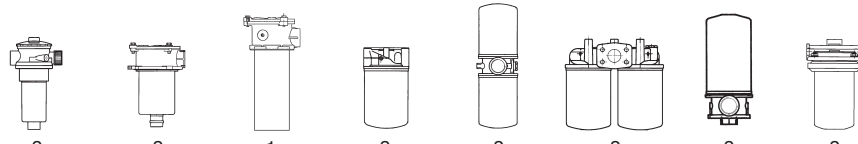
Nauwkeurigheid / Précision / Accuracy / Genauigkeit

1) 28 cSt ± 4% FS; 2) ±1,6% F.S.; 3) ± 2°C

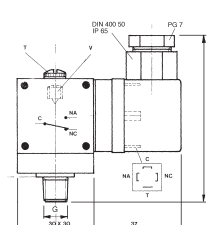

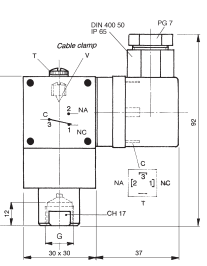
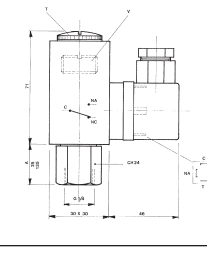



1171

**Drukschakelaar
Commutateur pression
Pressure switch
Druckschalter**

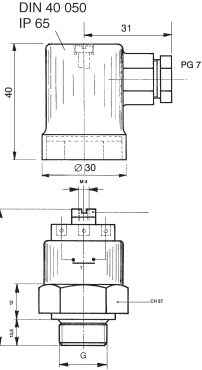

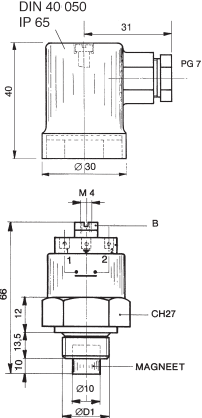

instel- bereik BAR	setting druk BAR	vaste schakel- diff. BAR	°C	max. BAR static	max. volt AC/50 Hz	max. amp.		G BSPT	contact	↔	REF.	
						ohm	ind					
 <p>DIN 400 50 IP 54</p>	0,15÷2	1,3	0,15	-5/+60	80	230	0,5	0,25	R1/8	NO	1	1171-20-001
	0,15÷2	1,5	0,15	-5/+60	80	230	0,5	0,25	R1/8	NO	2	1171-20-002
	2÷10	-	0,2	-5/+60	80	230	0,5	0,25	R1/8	NO		1171-20-010
	50÷150	-	10	-5/+60	300	220	0,5	0,25	R1/4	NO		1171-21-150
 <p>DIN 400 50 IP 54</p>	0,15÷2	1,3	0,15	-5/+60	80	230	0,5	0,25	R1/8	NC	1	1171-23-001
	0,15÷2	1,5	0,15	-5/+60	80	230	0,5	0,25	R1/8	NC	2	1171-23-002
	2÷10	-	0,2	-5/+60	80	230	0,5	0,25	R1/8	NC		1171-23-010
	10÷20	-	0,3	-5/+60	300	230	0,5	0,25	R1/8	NC		1171-23-020
50÷150	-	10	-5/+60	300	230	0,5	0,25	R1/4	NC		1171-24-150	
 <p>rubber stofkap IP 54</p>											1171-01	
<p>↔ FILTER alleen toepasbaar bij een druk na het filter = 0 bar</p>  <p>Ref. 77300 Ref. 77301 Ref. 77303 Ref. 77304 Ref. 77306 Ref. 77307 Ref. 77310 Ref. 77312</p>												
 <p>DIN 40 050 IP 65</p>	10÷20	15	0,3	-5/+60	300	230	0,5	0,25	M10 con.	NO		1171-20-015VDW
	0,15÷2	1,3	0,15	-5/+60	80	230	0,5	0,25	R1/8	NO	1	1171-80-001
	0,15÷2	1,5	0,15	-5/+60	80	230	0,5	0,25	R1/8	NO	2	1171-80-002
	0,15÷2	1,3	0,15	-5/+60	80	230	0,5	0,25	R1/8	NC	1	1171-81-001
	0,15÷2	1,5	0,15	-5/+60	80	230	0,5	0,25	R1/8	NC	2	1171-81-002
	10÷20	-	0,3	-5/+60	300	230	0,5	0,25	R1/4	NC		1171-81-020
<p>↔ FILTER alleen toepasbaar bij een druk na het filter = 0 bar</p>  <p>Ref. 77300 Ref. 77301 Ref. 77303 Ref. 77304 Ref. 77306 Ref. 77307 Ref. 77310 Ref. 77312</p>												

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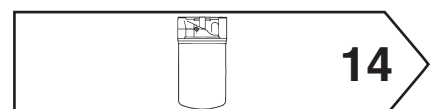
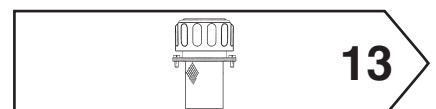
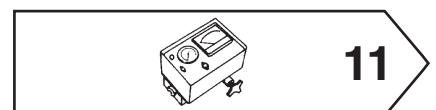
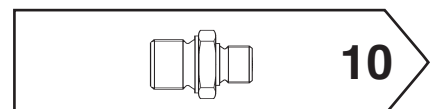
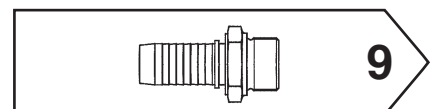
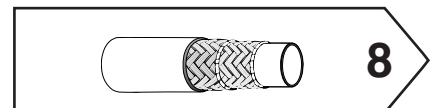
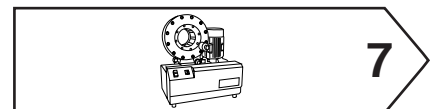
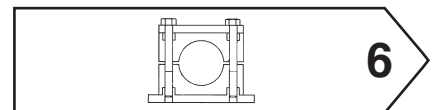
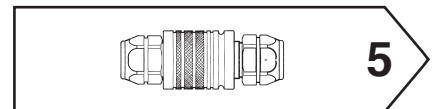
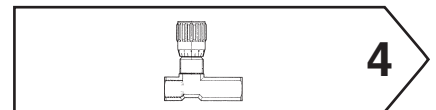
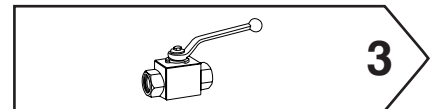
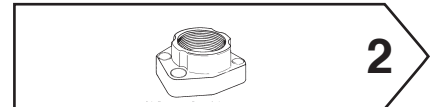
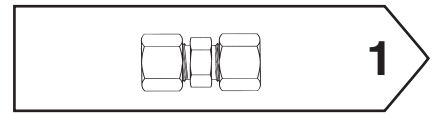
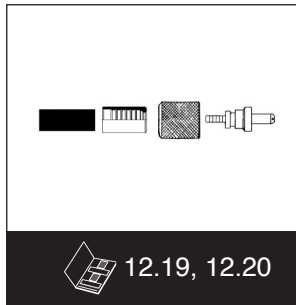
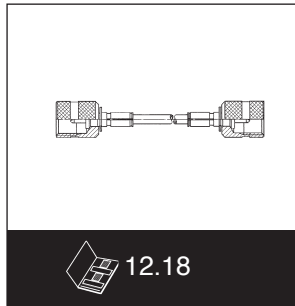
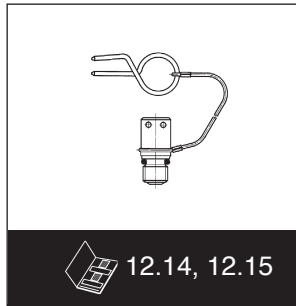
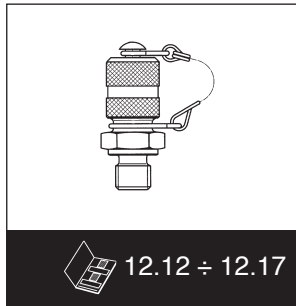
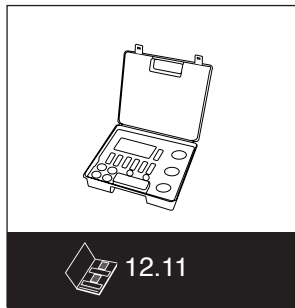
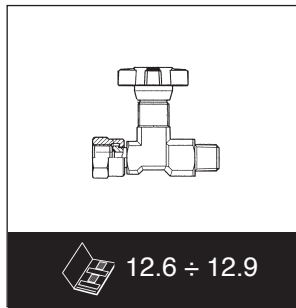
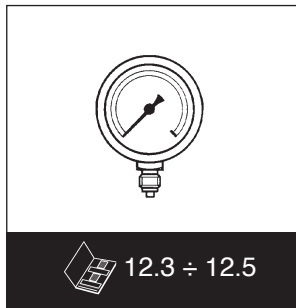
	instel- bereik BAR	nauwk. heid 25° C BAR	vaste schakel- diff. bij 25°C % setting	 °C	max. BAR static	max. volt AC/50 Hz	max. amp.		G BSP	contact	REF.
							ohm	ind			
	150÷300	± 7	25÷30%	-5/+60	600	230	3	2	R1/4	wissel	1171-30-300
	150÷300	± 7	25÷30%	-5/+60	600	230	3	2	G1/4	wissel	1171-31-300
	5÷10 10÷100 30÷150 150÷350	± 0,2 ± 1 ± 7 ± 7	25÷30% 25÷30% 25÷30% 25÷30%	-5/+60 -5/+60 -5/+60 -5/+60	300 300 600 600	230 230 230 230	5 5 5 5	3 3 3 3	G1/4 G1/4 G1/4 G1/4	wissel wissel wissel wissel	1171-36-010 1171-36-100 1171-36-150 1171-36-350

1171

Temperatuurschakelaars
Commutateur temperature
Temperature switch
Temperaturschalter

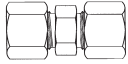
	instelbereik BAR	schakel temp. °C setting	max. amp. ohm	schakel- diff. °C	 max. °C	max. volt AC/50 Hz	G BSPP	contact	REF.
	-	60	10A	11	100	240	G3/8	NO	1171-38-60
	-	31	10A	11	100	240	G1/2	NO	1171-39-31
	instelbereik BAR	schakel temp. °C setting	max. amp. ohm	schakel- diff. °C	 max. °C	max. volt AC/50 Hz	G BSPP	contact	REF.
	-	60	10A	11	100	240	G1/2	NO	1171-41-60

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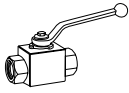
1



2



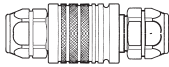
3



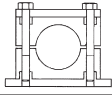
4



5



6



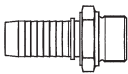
7



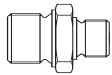
8



9



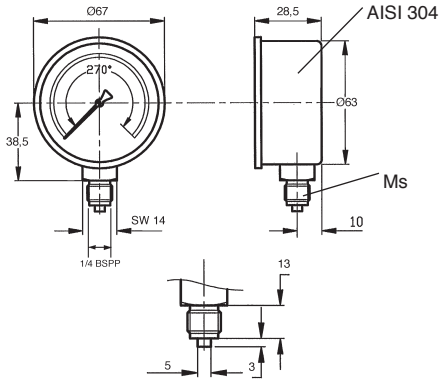
10



11



ATZ Aandrijftechniek B.V. (026-3112611)



1151
1/4" BSPP
Kl. 1.6
Ø 63
Onderaansluiting
Raccord vertical
Bottom connection
Unteranschluss
AISI 304

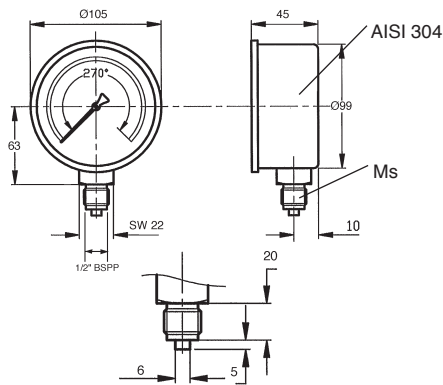


max. = 66% x BAR/PSI 12.21					AISI 304 REF.
BAR	PSI	°C		kg	
0 - 1	0 - 15	0/+60	G= Glycerine Glycérine Glycerin	0,195	1151-063-0001
0 - 2,5	0 - 35				1151-063-0002
-1 - +3	-1 - +40				1151-063-0003
0 - 4	0 - 60				1151-063-0004
0 - 6	0 - 80				1151-063-0006
0 - 10	0 - 150				1151-063-0010
0 - 16	0 - 230				1151-063-0016
0 - 1,6	0 - 23				1151-063-0017
0 - 25	0 - 350				1151-063-0025
0 - 40	0 - 600				1151-063-0040
0 - 60	0 - 800				1151-063-0060
0 - 100	0 - 1500				1151-063-0100
0 - 160	0 - 2300				1151-063-0160
0 - 250	0 - 3500				1151-063-0250
0 - 400	0 - 6000				1151-063-0400
0 - 600	0 - 8000				1151-063-0600
0 - 1000	0 - 14500	1151-063-1000			



1151-063
+
1160-063

	NBR REF.
	1160-063



1151
1/2" BSPP
Kl. 1.0
Ø 100
Onderaansluiting
Raccord vertical
Bottom connection
Unteranschluss
AISI 304



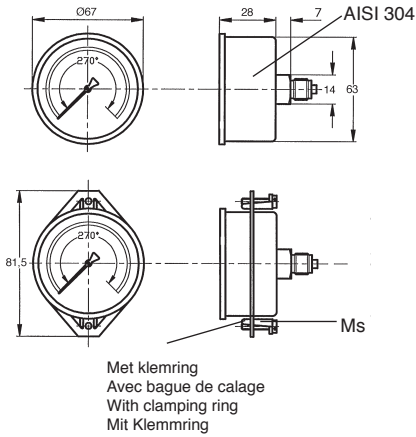
max. = 66% x BAR/PSI 12.21					AISI 304 REF.
BAR	PSI	°C		kg	
-1 - +3	-1 - +40	0/+60	G= Glycerine Glycérine Glycerin	0,820	1151-100-0003
0 - 6	0 - 80				1151-100-0006
0 - 10	0 - 150				1151-100-0010
0 - 16	0 - 230				1151-100-0016
0 - 1,6	0 - 23				1151-100-0017
0 - 25	0 - 350				1151-100-0025
0 - 40	0 - 580				1151-100-0040
0 - 60	0 - 800				1151-100-0060
0 - 100	0 - 1500				1151-100-0100
0 - 160	0 - 2300				1151-100-0160
0 - 250	0 - 3500				1151-100-0250
0 - 400	0 - 6000				1151-100-0400
0 - 600	0 - 8000				1151-100-0600
0 - 1000	0 - 15000				1151-100-1000
0 - 1600	0 - 22500				1151-100-1600



1151-100
+
1160-100

	NBR REF.
	1160-100

ATZ Aandrijftechniek B.V. (026-3112611)



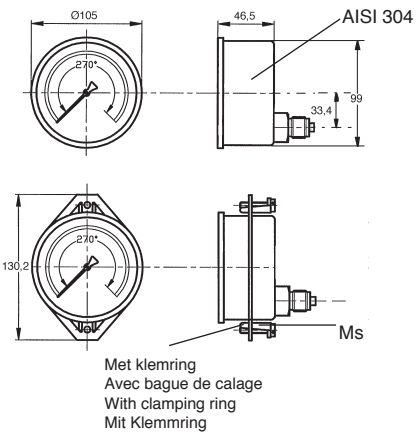
1155
1/4" BSPP
Kl. 1.6

Ø 63

Achteraansluiting
Raccord dorsal
Back connection
Hinteranschluss
AISI 304



max. = $\frac{66\%}{75\%} \times \text{BAR/PSI}$ 12.21		 °C	 G= Glycerine Glycérine Glycerin Glyzerin	 kg	AISI 304 REF.
BAR	PSI				
-1 - +3 0 - 6 0 - 10 0 - 16 0 - 25 0 - 40 0 - 60 0 - 100 0 - 160 0 - 250 0 - 400 0 - 600	-1 - +40 0 - 80 0 - 150 0 - 230 0 - 350 0 - 580 0 - 800 0 - 1500 0 - 2300 0 - 3500 0 - 6000 0 - 8000	0/+60		0,185	1155-063-0003 1155-063-0006 1155-063-0010 1155-063-0016 1155-063-0025 1155-063-0040 1155-063-0060 1155-063-0100 1155-063-0160 1155-063-0250 1155-063-0400 1155-063-0600
Klemring/Bague de calage/Clamping ring/Klemmring				0,015	1158-063



1155
1/2" BSPP
Kl. 1.0

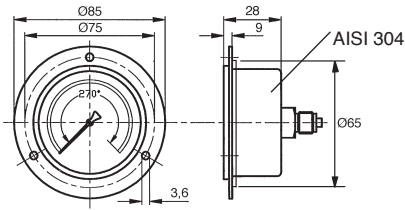
Ø 100

Achteraansluiting
Raccord dorsal
Back connection
Hinteranschluss
AISI 304



12

max. = $\frac{66\%}{75\%} \times \text{BAR/PSI}$ 12.21		 °C	 G= Glycerine Glycérine Glycerin Glyzerin	 kg	AISI 304 REF.
BAR	PSI				
-1 - +3 0 - 1 0 - 2 0 - 3 0 - 6 0 - 10 0 - 25 0 - 60 0 - 100 0 - 160 0 - 250 0 - 400 0 - 600 0 - 1000	-1 - +40 0 - 15 0 - 29 0 - 40 0 - 80 0 - 150 0 - 350 0 - 800 0 - 1500 0 - 2300 0 - 3500 0 - 6000 0 - 8000 0 - 15000	0/+60		0,875	1155-100-0003 1155-100-0001 1155-100-0002 1155-100-0004 1155-100-0006 1155-100-0010 1155-100-0025 1155-100-0060 1155-100-0100 1155-100-0160 1155-100-0250 1155-100-0400 1155-100-0600 1155-100-1000
Klemring/Bague de calage/Clamping ring/Klemmring				0,065	1158-100



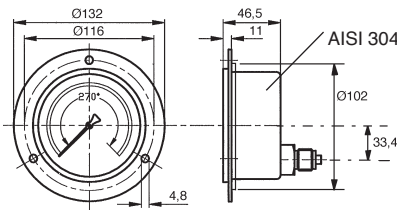
1157
1/4" BSPP
KI. 1.6
Ø 63
Achteraansluiting
Raccord dorsal
Back connection
Hinteranschluss
AISI 304

SYMBOL



! Ø paneel 65 mm

max. = 66% x BAR/PSI 12.21					AISI 304 REF.			
BAR	PSI	°C	G=	kg				
-1 - +3	-1 - +40	0/+60	G= Glycerine Glycérine Glycerine Glycerin	0,205	1157-063-0003			
0 - 6	0 - 80				1157-063-0006			
0 - 10	0 - 150				1157-063-0010			
0 - 16	0 - 230				1157-063-0016			
0 - 25	0 - 350				1157-063-0025			
0 - 40	0 - 600				1157-063-0040			
0 - 60	0 - 800				1157-063-0060			
0 - 100	0 - 1500				1157-063-0100			
0 - 160	0 - 2300				1157-063-0160			
0 - 250	0 - 3500				1157-063-0250			
0 - 400	0 - 6000				1157-063-0400			
0 - 600	0 - 8000				1157-063-0600			
Frontring / Colerette / Frontring / Frontring Ø63					1156-063			



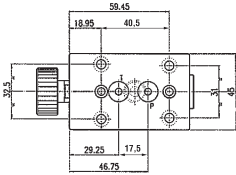
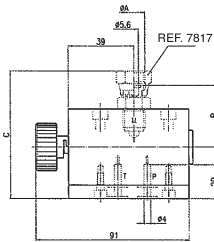
1157
1/2" BSPP
KI. 1.0
Ø 100
Achteraansluiting
Raccord dorsal
Back connection
Hinteranschluss
AISI 304

SYMBOL



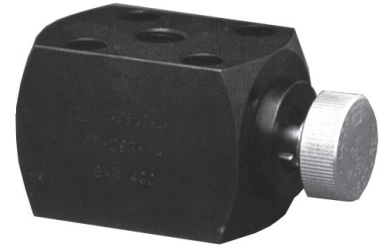
! Ø paneel 102 mm

max. = 66% x BAR/PSI 12.21					AISI 304 REF.			
BAR	PSI	°C	G=	kg				
-1 - +3	-1 - +40	0/+60	G= Glycerine Glycérine Glycerine Glycerin	0,940	1157-100-0003			
0 - 6	0 - 80				1157-100-0006			
0 - 10	0 - 150				1157-100-0010			
0 - 16	0 - 230				1151-100-0016			
0 - 25	0 - 350				1157-100-0025			
0 - 40	0 - 600				1157-100-0060			
0 - 60	0 - 800				1157-100-0100			
0 - 100	0 - 1500				1157-100-0160			
0 - 160	0 - 2300				1157-100-0100			
0 - 250	0 - 3500				1157-100-0250			
0 - 400	0 - 6000				1157-100-0400			
0 - 600	0 - 8000				1157-100-0600			
0 - 1000	0 - 15000				1157-100-1000			
Frontring / Colerette / Frontring / Frontring Ø100					1156-100			



7811

**Manometerschakelaar
Isolateur de manomètre
Pressure gauge isolator
Manometer Schutzschalter**



Afleren van de drukken zonder dat de manometer onder permanente druk staat. Voorkomt beschadiging van de manometer door drukstoten, waardoor langere levensduur wordt verkregen. Met drukontlasting naar tank.

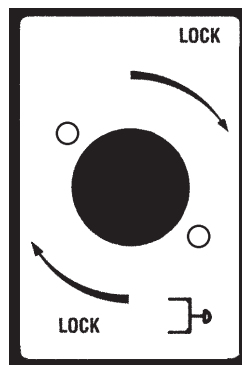
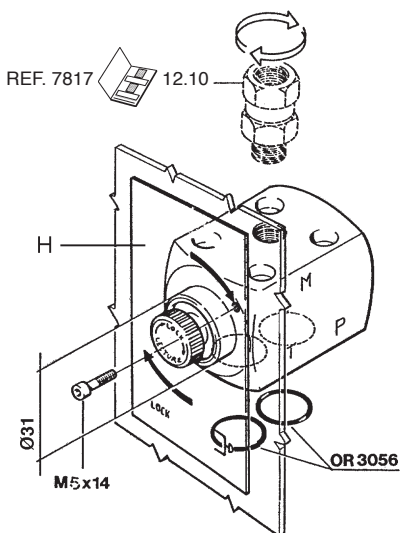
Lecture de pression sans laisser le manomètre sous pression continue. Protège le manomètre contre les chocs en service continu et prolonge ainsi sa durée de vie. Avec évacuation de pression vers le réservoir.

Reading pressure without permanent pressure on pressure gauge. Prevents damages to pressure gauge caused by peak pressures. Extends the life of the gauge considerably. Inclusive pressure drain to tank.

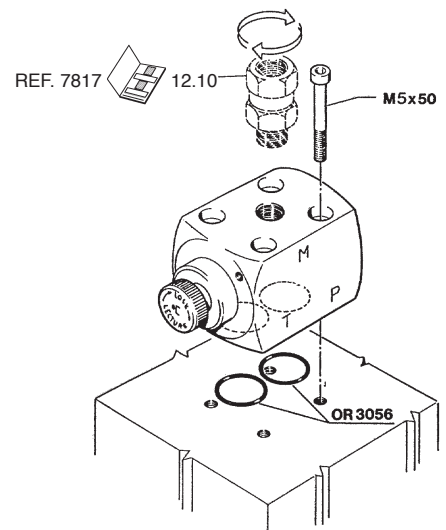
Druckablesung ohne den Manometer unter ständigen Druck zu halten. Schützt den Manometer gegen Druckstöße und verlängert deswegen seine Standzeit. Mit Druckentlastung zum Behälter.

		M BSPP	P BSPP	T BSPP		Fe/P REF.
BAR	°C				kg	
400	-30/+100	G1/4	G1/4	G1/4	0,98	7811-G13

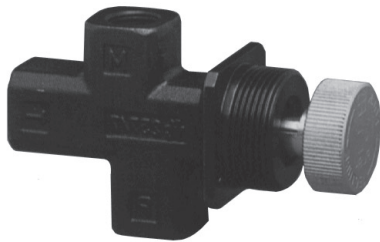
Montagevoorbeeld Exemple de montage Assembly example Montagebeispiel



Blokkieren
Blocage
Lock
Sperrern



7812



**Manometerschakelaar
Isolateur de manomètre
Pressure gauge isolator
Manometer Schutzschalter**

enkelvoudig
une voie
single
Einweg






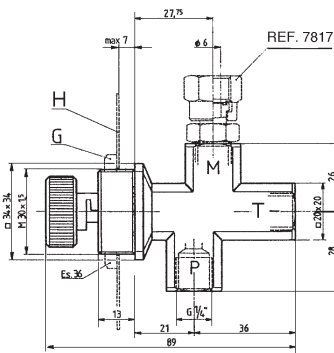
Aflezen van de drukken zonder dat de manometer onder permanente druk staat. Voorkomt beschadiging van de manometer door drukstoten, waardoor langere levensduur wordt verkregen. Met drukontlasting naar tank.

Lecture de pression sans laisser le manomètre sous pression continue. Protège le manomètre contre les chocs en service continu et prolonge ainsi sa durée de vie. Avec évacuation de pression vers le réservoir.

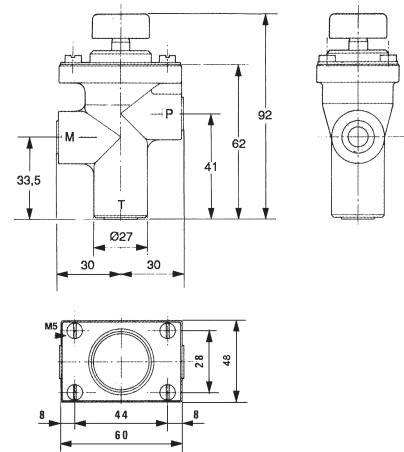
Reading pressure without permanent pressure on pressure gauge. Prevents damages to pressure gauge caused by peak pressures. Extends the life of the gauge considerably. Inclusive pressure drain to tank.

Druckablesung ohne den Manometer unter ständigen Druck zu halten. Schützt den Manometer gegen Druckstößen und verlängert deswegen seine Standzeit. Mit Druckentlastung zum Behälter.

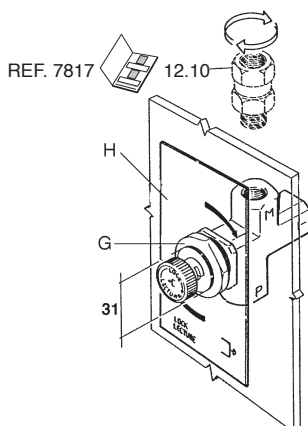
						
BAR	°C	M BSPP	P BSPP	BSPP	kg	REF.
400	-30/+100	G1/4	G1/4	G1/4	0,40	7812-G13BSPP
400	-30/+100	G1/4	G1/4	G1/4	0,45	7812-G13BSP-2



7812-G13BSP



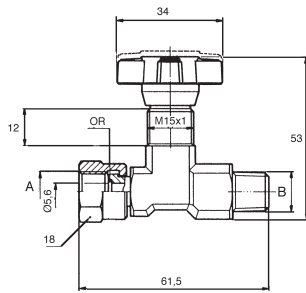
7812-G13BSP-2



**Montagevoorbeeld
Exemple de montage
Assembly example
Montagebeispiel**






Blokkeren
Blocage
Lock
Sperren

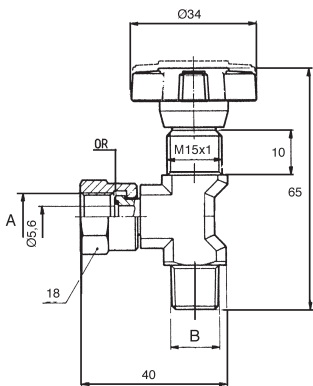


7814

Manometerafsluiter
Vanne pour manomètre
Pressure gauge isolator
Manometerschutzhahn



 BAR	A BSPP	B BSPT	 °C	 kg					Fe/Cr REF.
400	G1/4	R1/4	-20/+100	0,125					7814-G13






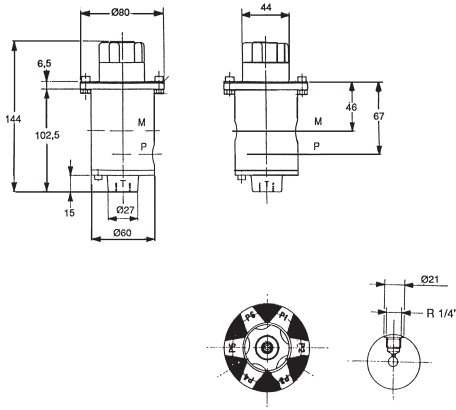
7815

Manometerafsluiter
Vanne pour manomètre
Pressure gauge isolator
Manometerschutzhahn



12

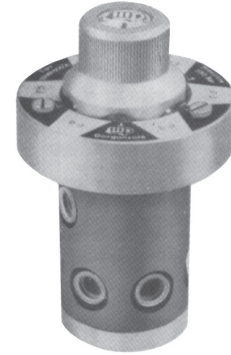
 BAR	A BSPP	B BSPT	 °C	 kg					Fe/Cr REF.
400	G1/4	R1/4	-20/+100	0,105					7815-G13



7816

Manometerschakelaar
Isolateur de manomètre
Pressure gauge isolateur
Manometer Schutzschalter

Zesweg - drukbediening
 Six voie - à pousser
 Six station - press operated
 Sechsweg - Drückbedienung






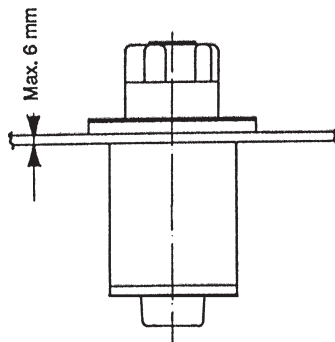
Aflezen van de drukken zonder dat de manometer onder permanente druk staat. Voorkomt beschadiging van de manometer door drukstoten, waardoor langere levensduur wordt verkregen.

Lecture de pression sans laisser le manomètre sous pression continue. Protège le manomètre contre les chocs en service continu et prolonge ainsi sa durée de vie.

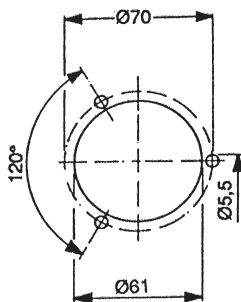
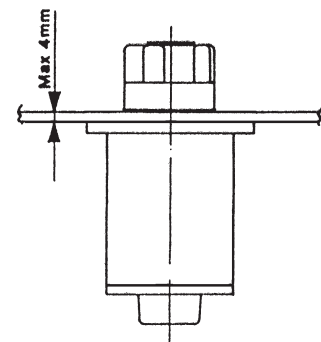
Reading pressure without permanent pressure on pressure gauge. Prevents damages to pressure gauge caused by peak pressures. Extends the life of the gauge considerably.

Druckablesung ohne den Manometer unter ständigen Druck zu halten. Schützt den Manometer gegen Druckstößen und verlängert deswegen seine Standzeit.

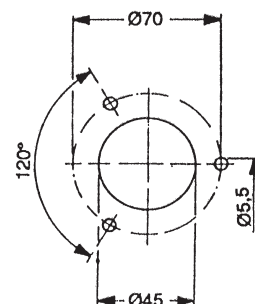
Aansluitingen Raccordements Connections Anschlüsse	 BAR	M BSPP	P BSPP	T BSPP	 °C	 kg	Fe/P REF.
6x P	400	G 1/4	G 1/4	G 1/4	-30/+100	1,43	7816-06-G13

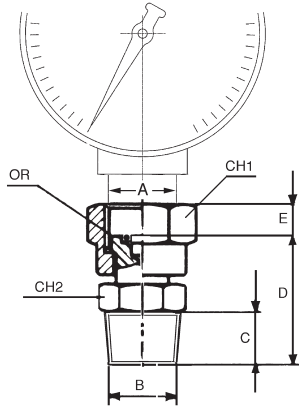


Bevestigingsvoorbeelden
Exemples de fixations
Fixing examples
Befestigungsbeispiele



Boorschema
Schémas d'usinage
Machining schemes
Einbaubohrung





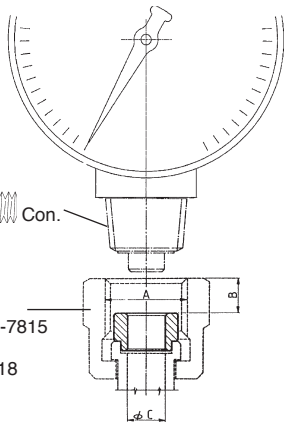


7817

Manometeradapter
Adapteur pour manomètre
Pressure gauge adapter
Manometeradapter



 BAR	A BSPP	B BSPT/BSPP	C	D	E	CH1	CH2	 kg	Fe/P REF.
400	G1/8	R1/8	9	22	7,5	13	12	0,021	7817-02-02
400	G1/4	R1/4	12	27	9,5	18	17	0,040	7817-04-04
400	G1/4	R1/2	16	31	9,5	18	22	0,068	7817-04-08
400	G1/2	G1/4	12	31	11	27	22	0,090	7817-08-04
400	G1/2	R1/2	16	34	11	27	22	0,100	7817-08-08



7817-0


Koperen afdichtingsring
Joint d'étanchéité en cuivre
Copper sealing ring
Dichtring aus Kupfer



REF. 7814-7815

12.18

12

A BSPP	B	C	 kg						Cu. REF.
G1/4	6,5	5,5	0,002						7817-0-04
G1/2	8	6,5	0,007						7817-0-08

1180

Controlekoffer voor drukmeting
Mallette pour contrôle de pression
Case for pressure testing
Messkoffer für Druckmessung




Inhoud koffer / Composition mallette / Case contents / Koffereinhalt

		Aantal Nombre Quantity Menge				mm			REF.
							F1 BSPP METR.	F2 BSPP METR.	
 1x REF. 1180-1 (110x320x290 mm)		3	60 100 160 250 400			Ø 63	G1/4 G1/4 G1/4 G1/4 G1/4	- - - - -	1151-063-0060 ¹⁾ 1151-063-0100 ¹⁾ 1151-063-0160 ¹⁾ 1151-063-0250 ¹⁾ 1151-063-0400 ¹⁾
		1 1 1 1 1	400 400 400 400 400			-	G1/8 G1/4 M8x1 M10x1 M12x1,5	M16x2 M16x2 M16x2 M16x2 M16x2	1184-13-02-DE 1184-13-04 1184-13-08x1 1184-13-10x1 1184-13-12x1,5
		3 1	400 400			- -	G1/4 G1/2	M16x2 M16x2	1184-19-04 1184-19-08
		1 1 1 1 1 1 1	400 400 400 400 400 400 400			-	G1/8 G3/8 G3/8 G1/2 G1/2 G3/4 G1	G1/4 G1/4 G1/2 G1/8 G1/4 G1/4 G1/4	1068-02-04DE 1068-06-04DE 1068-06-08DE 1069-08-02DE 1069-08-04DE 1069-12-04DE 1069-16-04DE
		1 1	400 400			800 1500	M16x2 M16x2	M16x2 M16x2	1190-10-2-0800 ²⁾ 1190-10-2-1500 ²⁾
		1	420 420 420 420	2-30 3-60 5-120 8-180	10/80 10/80 10/80 10/80	-	G3/4 G3/4 G3/4 G3/4	G3/4 G3/4 G3/4 G3/4	1172-...-030T ¹⁾ 1172-...-060T ¹⁾ 1172-...-120T ¹⁾ 1172-...-180T ¹⁾
		2 1	400 400			-	G3/4 G3/4	G3/4 G1/2	8872-12 8872-12-08

1) Naar keuze/Au choix/At choice/Nach Wahl 12.4, 11.13

2) L= >, < 800 & 1500 mm 12.18

+ HH PRODUCT INFO REF. 1180

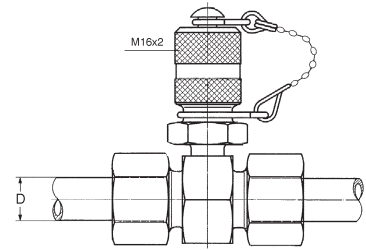
DIN 2353	ØD	 BAR	Fe/Zn/YP REF.
L	6	315	1184-10-06L
	8	315	1184-10-08L
	10	315	1184-10-10L
	12	315	1184-10-12L
	15	315	1184-10-15L
	18	315	1184-10-18L
	22	160	1184-10-22L
	28	160	1184-10-28L
	35	160	1184-10-35L
	42	160	1184-10-42L
S	6	400	1184-10-06S
	8	400	1184-10-08S
	10	400	1184-10-10S
	12	400	1184-10-12S
	14	400	1184-10-14S
	16	400	1184-10-16S
	20	400	1184-10-20S
	25	400	1184-10-25S
	30	250	1184-10-30S
	38	250	1184-10-38S

1184-10

400 BAR
(M16x2)

Testaansluiting
Connection de test
Test connector
Prüfanschluss

Rechte verbindingskoppeling
Union double
Straight connecting coupling
Gerade Verschraubung



M	D mm	Fe/Zn/YP REF.
M16x2	max. 12	1184-11

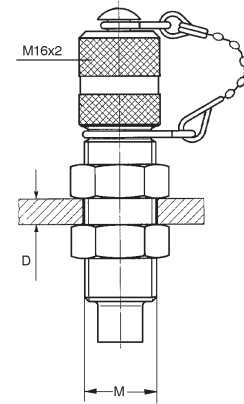
* Één zijde zonder terugslagklep en schroefkap
Un côté sans clapet anti-retour et sans capuchon vissable
One side without checkvalve and screwed cap
Eine Seite ohne Rückschlagventil und Schutzkappe


1184-11

400 BAR
(M16x2)

Testaansluiting*
Connection de test*
Test connector*
Prüfanschluss*

Rechte schotkoppeling
Union de cloison
Straight bulkhead coupling
Gerade Schottverschraubung



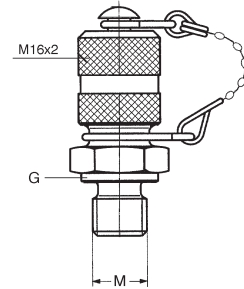
M	 G	Fe/Zn/YP REF.
M10x1	DIN 3852 form B	1184-13-10x1
M12x1,5	DIN 3852 form B	1184-13-12x1,5
M14x1,5	DIN 3852 form B	1184-13-14x1,5
M16x1,5	DIN 3852 form B	1184-13-16x1,5
G1/8"	DIN 3852 form E	1184-13-02-DE
G1/4"	DIN 3852 form E	1184-13-04
G1/4"	DIN 3852 form E	1184-13-04-DE
G3/8"	DIN 3852 form E	1184-13-06-DE
M8x1 OR	DIN 3852 form F	1184-13-08x1
5/16" UNF	SAE J514	1184-13-5/16
7/16" UNF	SAE J514	1184-13-7/16
9/16" UNF	SAE J514	1184-13-9/16
R1/8" con.	DIN 3852 form C	1184-13-02-C
R1/4" con.	DIN 3852 form C	1184-13-04-C
1/8" NPTF	ANSI B1.20.1	1184-13-02-N
1/4" NPTF	ANSI B1.20.1	1184-13-04-N

1184-13

400 BAR
(M16x2)

Testaansluiting
Connection de test
Test connector
Prüfanschluss

Rechte inschroeffkoppeling
Union mâle
Straight male stud coupling
Gerade Einschraubverschraubung



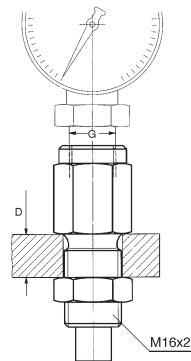
12

G	D mm	Fe/Zn/YP REF.
G1/4"	max. 12	1184-19-04
G1/2"	max. 12	1184-19-08

1184-19

400 BAR
(M16x2)

Manometerkoppeling
Union femelle manomètre
Female pressure gauge coupling
Manometerverschraubung

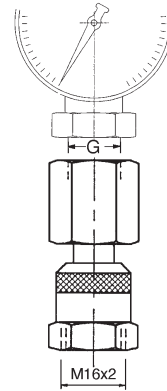


G BSPP			Fe/Zn/YP REF.
G1/4 G1/2			1184-20-04 1184-20-08

1184-20

400 BAR
(M16x2)

Manometer testaansluiting
Union femelle manomètre
Female pressure gauge coupling
Manometerverschraubung

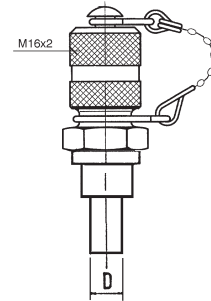



DIN 2353	ØD		Fe/Zn/YP REF.
L/S	6		1184-21-06
	8		1184-21-08
	10		1184-21-10
	12		1184-21-12
			1184-21-12

1184-21

400 BAR
(M16x2)

Testaansluiting-Standpijp
Connection de test-Tube lisse nu
Test connector-Stand pipe
Prüfanschluss-Rohrstutzen

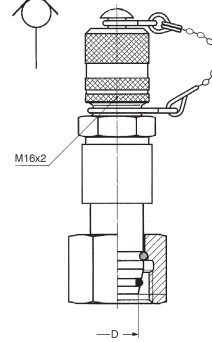


DIN 2353	ØD	 BAR	Type	Fe/Zn/YP REF.
L	6	315	A	1184-22-06L
	8	315	A	1184-22-08L
	10	315	A	1184-22-10L
	12	315	A	1184-22-12L
	15	315	A	1184-22-15L
	18	315	A	1184-22-18L
	22	160	A	1184-22-22L
	28	160	B	1184-22-28L
	35	160	B	1184-22-35L
	42	160	B	1184-22-42L
S	6	400	A	1184-22-06S
	8	400	A	1184-22-08S
	10	400	A	1184-22-10S
	12	400	A	1184-22-12S
	14	400	A	1184-22-14S
	16	400	A	1184-22-16S
	20	400	A	1184-22-20S
	25	400	A	1184-22-25S
	30	250	B	1184-22-30S
	38	250	B	1184-22-38S

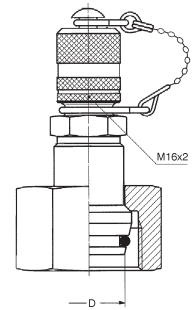
1184-22

400 BAR
(M16x2)

Testaansluiting-DIN 2353
Connection de test-DIN 2353
Test connector-DIN 2353
Prüfanschluss-DIN 2353



Type A



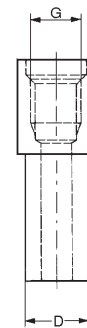
Type B

DIN 2353	ØD	G	Type	Fe/Zn/YP REF.
L	15	M10	B	1184-25-15L
	18	M10	B	1184-25-18L
	22	M10	B	1184-25-22L
	28	M10	B	1184-25-28L
	35	M10	B	1184-25-35L
	42	M10	B	1184-25-42L
S	6	M10	A	1184-25-06S
	8	M10	A	1184-25-08S
	10	M10	A	1184-25-10S
	12	M10	B	1184-25-12S
	14	M10	B	1184-25-14S
	16	M10	B	1184-25-16S
	20	M10	B	1184-25-20S
	25	M10	B	1184-25-25S
	30	M10	B	1184-25-30S
	38	M10	B	1184-25-38S

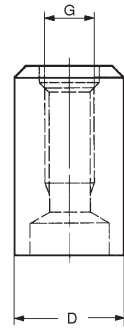
1184-25

400 + 600 BAR

Verloopadaptor
Adaptateur de réduction
Reducing adaptor
Reduzierstutzen



Type A



Type B

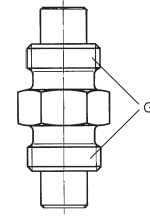
G			Fe/Zn/YP REF.
M16x2			1184-72
* Één zijde zonder terugslagklep Un côté sans clapet anti-retour One side without check valve Eine Seite ohne Rückschlagventil			

1184-72

400 BAR
(M16x2)

Slangkoppeling*
Coupleur pour flexible*
Hose coupling*
Schlauchkupplung*

Schroef type
Type à visser
Screw type
Schraub Typ



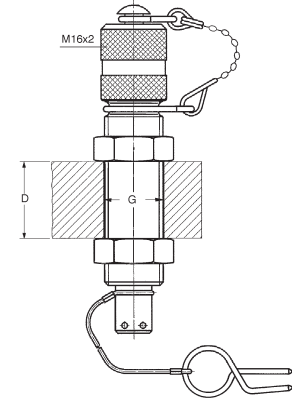
G	D mm		Fe/Zn/YP REF.
M16x2	max 21		1184-73
* Één zijde zonder terugslagklep Un côté sans clapet anti-retour One side without check valve Eine Seite ohne Rückschlagventil			

1184-73

400 BAR
(M16x2)

Slangkoppeling*
Coupleur pour flexible*
Hose coupling*
Schlauchkupplung*

Schroef/stekker type
Type à épingle/vis
Screw/plug-in type
Schraub/Stecker Typ



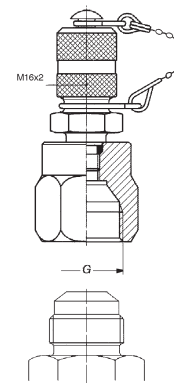
G SAE J514 UN(F) 37°		Fe/Zn/YP REF.
7/16-20UNF		1184-74-04
1/2-20UNF		1184-74-05
9/16-18UNF		1184-74-06
3/4-16UNF		1184-74-08
7/8-14UNF		1184-74-10
1.1/16-12UN		1184-74-12
1.3/16-12UN		1184-74-14
1.5/16-12UN		1184-74-16
1.5/8-12UN		1184-74-20
1.7/8-12UN		1184-74-24

1184-74

400 BAR
(M16x2)

Testaansluiting
Connection de test
Test connector
Prüfanschluss

Overgangskoppeling
Adapteur de réduction
Reducing adaptor
Reduzieranschluss



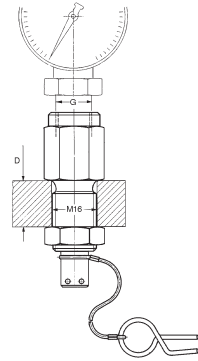
G BSPP	D mm	Fe/Zn/YP REF.
G1/4 G1/2	max. 17 max. 17	1185-19-04 1185-19-08

1185-19

400 BAR

Manometerkoppeling
Union femelle manomètre
Female pressure gauge coupling
Manometeranschluss

Stekker type
Type à épingle
Plug-in type
Stecker Typ



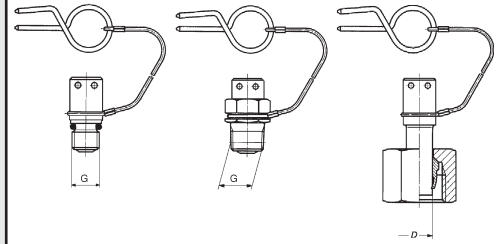
DIN 2353	ØD	G	Type	Fe/Zn/YP REF.
		M8x1 R1/8" con.	A B	1185-21-08x1 1185-21-02
L	6 8		C C	1185-21-06L 1185-21-08L
S	6 8		C C	1185-21-06S 1185-21-08S

1185-21

400 BAR

Testaansluiting
Connection de test
Test connector
Prüfanschluss

Stekker type/zonder terugslagklep
Type à épingle/sans clapet anti-retour
Plug-in type/without check valve
Stecker Typ/ohne Rückschlagventil



Type A

Type B

Type C

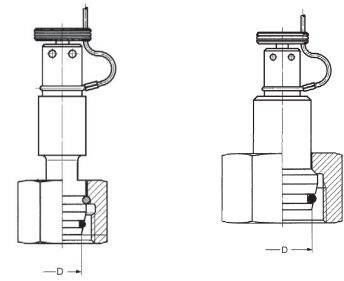
L/S 2353	ØD	BAR	Type	Fe/Zn/YP REF.
L	6	400	A	1185-22-06L
	8	400	A	1185-22-08L
	10	400	A	1185-22-10L
	12	400	A	1185-22-12L
	15	400	A	1185-22-15L
	18	400	A	
	22	160	A	
	28	160	B	
	35	160	B	
	42	160	B	
S	6	400	A	1185-22-06S
	8	400	A	1185-22-08S
	10	400	A	1185-22-10S
	12	400	A	1185-22-12S
	14	400	A	1185-22-14S
	16	400	A	1185-22-16S
	20	400	A	
	25	400	A	
	30	250	B	
	38	250	B	

1185-22

400 BAR

Testaansluiting
Connection de test
Test connector
Prüfanschluss

Overgangskoppeling
Adaptateur de réduction
Reducing adaptor
Reduzieranschluss



Type A

Type B

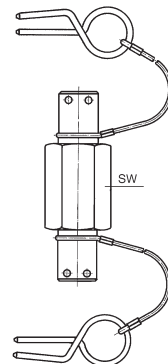
SW	Fe/Zn/YP REF.
14	1185-72


1185-72

400 BAR

Slangkoppeling
Coupleur pour flexible
Hose coupling
Schlauchkupplung

Stekker type
Type à épingle
Plug-in type
Stecker Typ



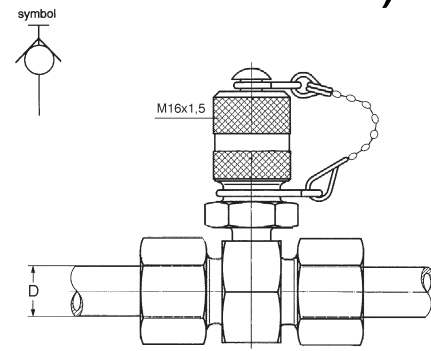
DIN 2353	ØD	 BAR	Fe/Zn/YP REF.
L	6	315	1186-10-06L
	8	315	1186-10-08L
	10	315	1186-10-10L
	12	315	1186-10-12L
	15	315	1186-10-15L
	18	315	1186-10-18L
	22	160	1186-10-22L
	28	160	1186-10-28L
	35	160	1186-10-35L
42	160	1186-10-42L	
S	6	600	1186-10-06S
	8	600	1186-10-08S
	10	600	1186-10-10S
	12	600	1186-10-12S
	14	600	1186-10-14S
	16	400	1186-10-16S
	20	400	1186-10-20S
	25	400	1186-10-25S
	30	250	1186-10-30S
	38	250	1186-10-38S

1186-10

600 BAR
(M16x1,5)

Testaansluiting
Connection de test
Test connector
Prüfanschluss

Rechte verbindingskoppeling
Union double
Straight connecting coupling
Gerade Verschraubung



M	D mm	Fe/Zn/YP REF.
M16x1,5	max. 12	1186-11

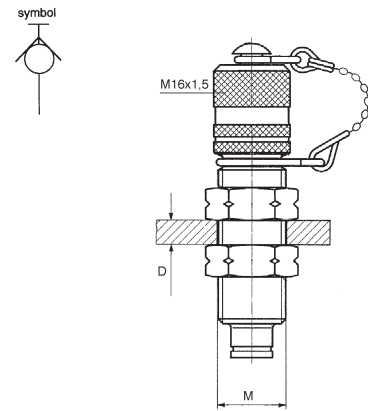
* Één zijde zonder terugslagklep
Un côté sans clapet anti-retour
One side without check valve
Eine Seite ohne Rückschlagventil


1186-11

600 BAR
(M16x1,5)

Testaansluiting*
Connection de test*
Test connector*
Prüfanschluss*

Rechte schotkoppeling
Union de cloison
Straight bulkhead coupling
Gerade Schottverschraubung



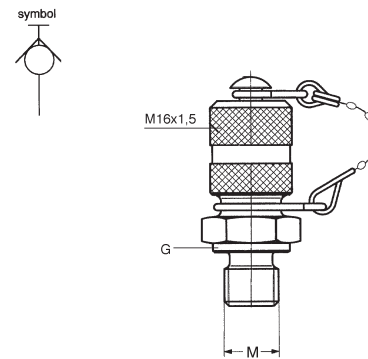
M	 G	Fe/Zn/YP REF.
M12x1,5 M14x1,5 M16x1,5	DIN 3852 form B	1186-13-12x1,5 1186-13-14x1,5 1186-13-16x1,5
G1/8 G1/4 G1/4	DIN 3852 form E	1186-13-02-DE 1186-13-04 1186-13-04-DE
M8x1 OR M10x1 OR	DIN 3852 form F	1186-13-08x1 1186-13-10x1
5/16UNF 7/16UNF 9/16UNF	SAE J514	1186-13-5/16 1186-13-7/16 1186-13-9/16
R1/8 con. R1/4 con.	DIN 3852 form C	1186-13-02-C 1186-13-04-C
1/8NPTF 1/4NPTF	ANSI B1.20.1	1186-13-02-N 1186-13-04-N

1186-13

600 BAR
(M16x1,5)

Testaansluiting
Connection de test
Test connector
Prüfanschluss

Rechte inschroeffkoppeling
Union mâle
Straight male stud coupling
Gerade Einschraubverschraubung



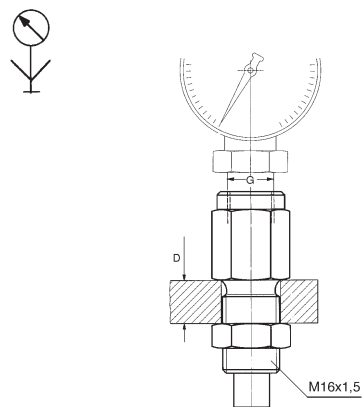
12

G BSPP	D mm	Fe/Zn/YP REF.
G1/4 G1/2	max. 12 max. 12	1186-19-04 1186-19-08

1186-19

600 BAR
(M16x1,5)

Manometerkoppeling
Union femelle manomètre
Female pressure gauge coupling
Manometerverschraubung

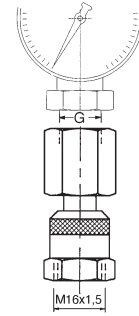



G BSPP			Fe/Zn/YP REF.
G1/4 G1/2			1186-20-04 1186-20-08

1186-20

600 BAR
(M16x1,5)

Manometer testaansluiting
Union femelle manomètre
Female pressure gauge coupling
Manometerverschraubung

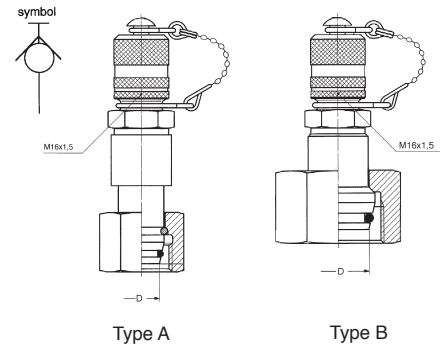


DIN 2353	ØD	 BAR	Type	Fe/Zn/YP REF.
S	6	600	A	1186-22-06S
	8	600	A	1186-22-08S
	10	600	A	1186-22-10S
	12	600	A	1186-22-12S
	14	600	A	1186-22-14S
	16	400	A	1186-22-16S
	20	400	A	1186-22-20S
	25	400	A	1186-22-25S
	30	250	B	1186-22-30S
	38	250	B	1186-22-38S

1186-22

600 BAR
(M16x1,5)

Testaansluiting
Connection de test
Test connector
Prüfanschluss

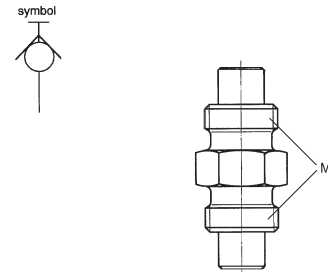


M			Fe/Zn/YP REF.
M16x1,5			1186-72
* Één zijde zonder terugslagklep Un côté sans clapet anti-retour One side without check valve Eine Seite ohne Rückschlagventil			

1186-72

600 BAR
(M16x1,5)

Slangkoppeling*
Coupleur pour flexible*
Hose coupling*
Schlauchkupplung*

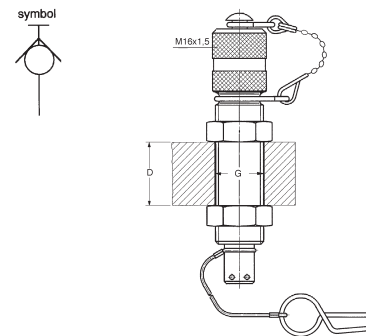


G	D mm		Fe/Zn/YP REF.
M16x1,5	max 21		1186-73
* Één zijde zonder terugslagklep Un côté sans clapet anti-retour One side without check valve Eine Seite ohne Rückschlagventil			

1186-73

600 BAR
(M16x1,5)

Slangkoppeling*
Coupleur pour flexible*
Hose coupling*
Schlauchkupplung*

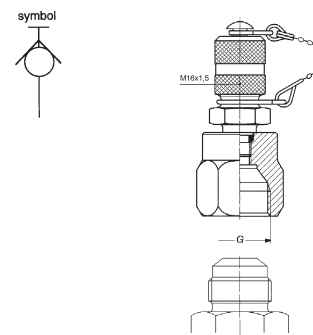


G SAE J514 UN(F) 37°			Fe/Zn/YP REF.
7/16-20UNF 1/2-20UNF 9/16-18UNF 3/4-16UNF 7/8-14UNF 1.1/16-12UN 1.3/16-12UN 1.5/16-12UN 1.5/8-12UN 1.7/8-12UN			1186-74-04 1186-74-05 1186-74-06 1186-74-08 1186-74-10 1186-74-12 1186-74-14 1186-74-16 1186-74-20 1186-74-24

1186-74

600 BAR
(M16x1,5)

Testaansluiting
Connection de test
Test connector
Prüfanschluss

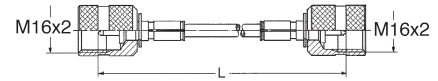





1190-10-2

400 BAR
(M16x2)

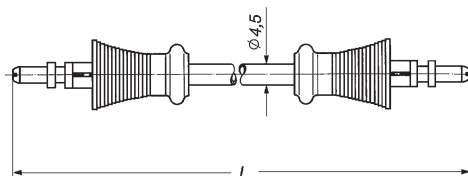
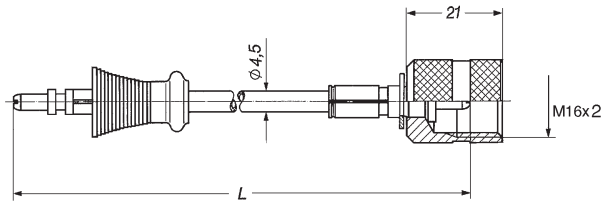
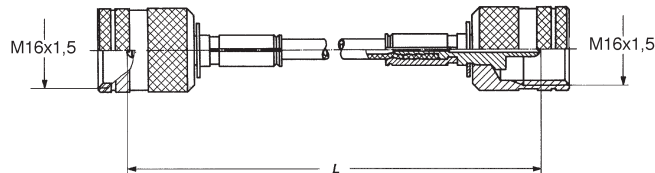
Meetslang
Tuyau de mesure
Test hose
Meßschlauch

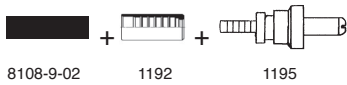
Schroef type
Type à visser
Screw type
Schraub Typ



DN	L	 BAR	 °C *	 mm	REF.
2	400	400	50	20	1190-10-2-0400
2	800	400	50	20	1190-10-2-0800
2	1000	400	50	20	1190-10-2-1000
2	1500	400	50	20	1190-10-2-1500
2	2000	400	50	20	1190-10-2-2000

* 70°C 360 BAR
80°C 340 BAR
90°C 330 BAR
100°C 310 BAR





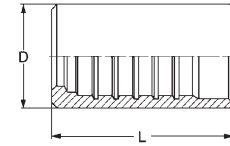
8108-9-02

1192

1195

1192 8108

Pershuls/Meetslang
Jupe de sertissage/Tuyau de
mesure
Crimp socket/Test hose
Presshülse/Meßschlauch

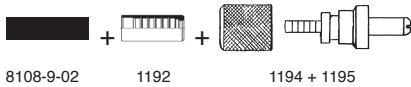


1192-10-2



8108-9-02

DN		D	L					mm	kg/m	REF.
2 2	8108-9-02	8	4	2	4,9	600	1900	20	0,016	1192-10-2 8108-9-02



8108-9-02

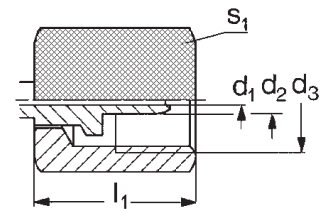
1192

1194 + 1195

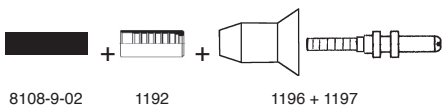
1194 1195

Meetslangkoppeling
Embout pour tuyau de mesure
Fitting for test hose
Schlaucharmatur für Meßschlauch

Schroef type
 Type à visser
 Screw type
 Schraub Typ



DN			d1	d2	d3	l1	S1		
		BAR 50°C						REF.	REF.
2	8108-9-02	400	1,0	3,3	M16x2	21	19	1194-10-2	1195-10-2
2	8108-9-02	600	1,0	3,3	M16x1,5	21	19	1194-10-2	1195-20-3



8108-9-02

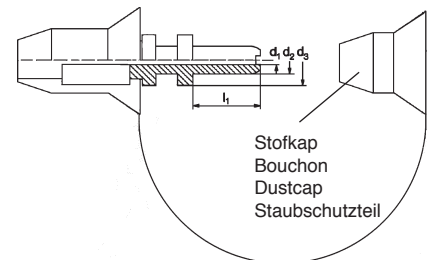
1192

1196 + 1197

1196 1197

Meetslangkoppeling
Embout pour tuyau de mesure
Fitting for test hose
Schlaucharmatur für Meßschlauch

Stekker type
 Type à épingle
 Plug-in type
 Stecker Typ



Stofkap
 Bouchon
 Dustcap
 Staubschutzteil

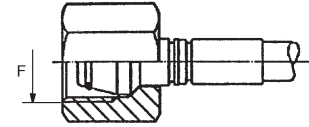
DN			d1	d2	d3	L1	REF.		
		BAR 50°C						REF.	
2	8108-9-02	400	1,0	3,3	5,5	7,5		1196-10-2	1197-10-2

DIN 2353	Ø	DN	F	REF.
S	6	02	M14x1,5	1195-22-06S
	8	02	M16x1,5	1195-22-08S
	10	02	M18x1,5	1195-22-10S

1195-22

DKOS
OR-seal →← 24°

Wartel metrisch
Ecrou tournant métrique
Swivel metric
Überwurfmutter metrisch

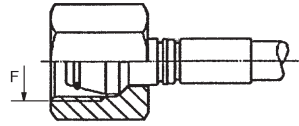


DIN 2353	Ø	DN	F	REF.
L	6	02	M12x1,5	1195-23-06L
	8	02	M14x1,5	1195-23-08L
	10	02	M16x1,5	1195-23-10L

1195-23

DKOL
OR-seal →← 24°

Wartel metrisch
Ecrou tournant métrique
Swivel metric
Überwurfmutter metrisch



DIN 2353	Ø			REF.
L/S	4			1195-51-04
	6			1195-51-06
	8			1195-51-08

1195-51

BEL/BES

Rechte standpijp
Tube lisse nu
Straight stand pipe
Rohrstutzen



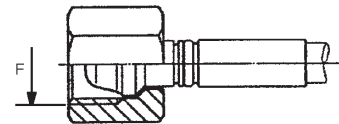
F BSPP	DN			REF.
G1/8	02			1196-16-02
G1/4	02			1196-16-04

1196-16

DKR
Globeseal →← 60°

BSPP

Wartel
Ecrou tournant
Swivel
Überwurfmutter



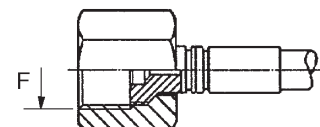
F BSPP	DN			REF.
G1/4	02			1196-19-04
G1/2	02			1196-19-08

1196-19

→← **MANO**

BSPP

Wartel, vlakdichtend
Ecrou tournant, étanchéité plat
Swivel, flatseal
Überwurfmutter, Flachabdichtung





SPIRAL TUBE: 60 ÷ 1600 BAR

**Algemene informatie
Informations générales
General information
Allgemeine Information**

**Manometer
Manomètre
Pressure gauge
Manometer**



C TUBE: -1 ÷ 40 BAR

<p>Toepassing: Hydrauliek, pneumatiek, koeltechniek, scheepsbouw enz.</p> <p>Kast: Roestvaststaal 304 met rubber plug</p> <p>Venster: Transparant kunststof (acrylaat) -1÷10 bar met zacht venster</p> <p>Nippel: Messing (Ms 58)</p> <p>Aansluiting: BSPP voorzien van restrictie in de doorlaat naar de buisveer.</p> <p>(Op aanvraag BSPT/NPT).</p> <p>Wijzerplaat: Aluminium, mat wit gemoffeld. Rood/zwart bedrukt.</p> <p>Nauwkeurigheid bij 20°C: Ø63 klasse 1,6 - Ø100 klasse 1,0 volgens DIN nr. 16130</p> <p>Werkdruk: 75% voor statische belasting resp. 66 % van het meetgebied voor wisselende belasting volgens DIN nr. 16005. Afwijking bij iedere 10°C is +0,3% gebaseerd op nauwkeurigheid bij 20°C.</p>	<p>Application: Systèmes hydrauliques et pneumatiques.</p> <p>Boîtier: Acier inoxydable 304 avec bouchon en caoutchouc.</p> <p>Vitre: Matière synthétique transparente (acrylique) -1÷10 bar avec vitre flexible Laiton (Ms 58)</p> <p>Raccord: BSPP avec vis d'amortissement incorporée. (Sur demande BSPT/NPT).</p> <p>Filetage: Aluminium laqué blanc mat. Impression rouge/noire.</p> <p>Précision à 20°C: Ø63 classe 1,6 - Ø100 classe 1,0 suivant DIN nr. 16130</p> <p>Pression de travail: 75% de la plage de mesure pour charge statique et 66% pour charge variable suivant DIN 16005. Déclinaison tous les 10°C de 0,3% basée sur une précision à 20°C.</p>
<p>Application: Hydraulic, cooling and air systems.</p> <p>Case: Stainless steel 304 with rubber plug.</p> <p>Window: Clear acrylic (acrylate) -1÷10 bar with soft window</p> <p>Connection: BSPP with orifice check screw (snubber). (On request BSPT/NPT).</p> <p>Dial: Aluminium - white enamel. Red/black scaleprinting and pointer.</p> <p>Accuracy at 20°C: Ø63 class 1,6 - Ø100 class 1,0 according to DIN nr. 16130</p> <p>Working pressure: 75% FSD for static steady pressure with slow variation and 66% FSD for rapidly changing and fluctuating pressure according to DIN 16005. Deviation at each 10°C is +0,3% based on accuracy at 20°C.</p>	<p>Anwendung: Hydraulik, Luft und Kühltechnik.</p> <p>Gehäuse: V2A mit Gummistopfen.</p> <p>Sichtscheibe: Kunststoff - klar (Akrylat) -1÷10 bar mit weiche Sichtscheibe</p> <p>Anschluss-Gewindezapfen: Messing (Ms 58) BSPP mit Drosselschraube im Druckkanal. (Auf Anfrage BSPT/NPT).</p> <p>Anschluss: Aluminium, matt weiss lackiert. Rot/schwarz bedrukt.</p> <p>Zifferblatt: Ø63 Klasse 1,6 - Ø100 Klasse 1,0 gemäss (DIN 16130)</p> <p>Genauigkeit bei 20°C: 75% Ruhebelastung - 66% bei Wechselbelastung gem. DIN 16005. Abweichung bei jeder 10°C ist +0,3% basiert auf genauigkeit bei 20°C.</p>


Algemene informatie
 Informations générales
 General information
 Allgemeine Information

1184÷1196


Meetslang en koppeling
 Tuyau et prise de mesure
 Test hose and test connector
 Meßschlauch und Kupplung











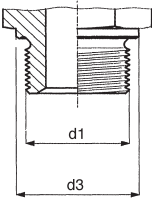
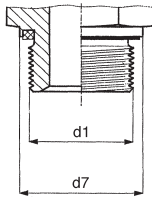
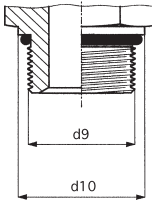
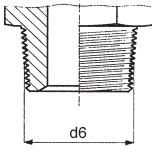
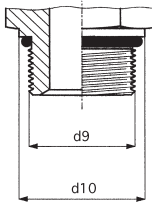
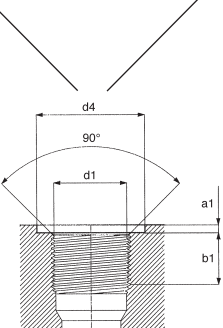
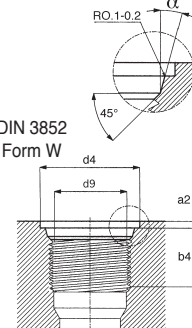
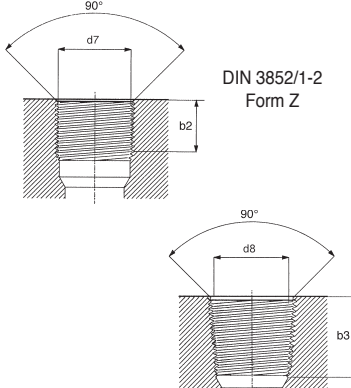
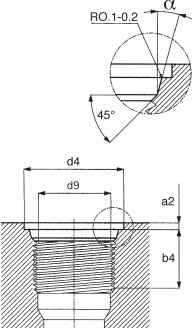


Toepassing: Voor gebruik in hydraulische systemen.	Application: Pour utilisation dans les systèmes hydrauliques.
Materiaal-soorten: Verzinkt staal, geel gepassiveerd. Op aanvraag in roestvaststaal.	Matière: Acier zingué, passivé jaune. Sur demande en inox.
Afdichtingen: Standaard NBR (-25°C/+100°C).	Etanchéité: Standard NBR (-25°C/+100°C).
Application: For use in hydraulic systems.	Anwendung: Für Einsatz in hydraulischen Systemen.
Types of material: Zinc plated steel, yellow passivated. On request in stainless steel.	Material: Stahl, gelb passiviert. Auf Anfrage aus rostfreiem Stahl
Seals: Standard with NBR (-25°C/+100°C).	Dichtungen: Standard NBR (-25°C/+100°C).

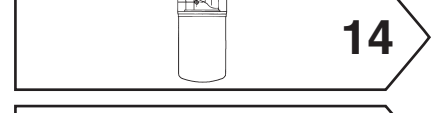
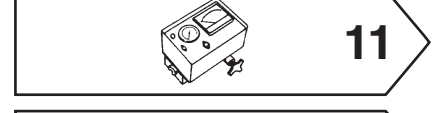
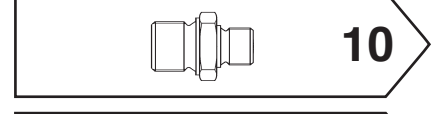
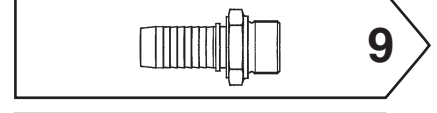
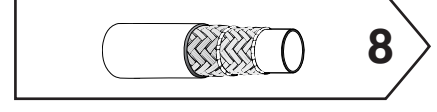
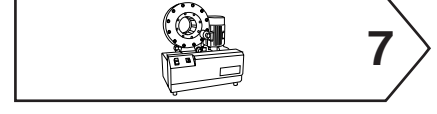
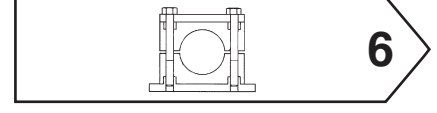
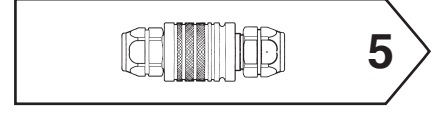
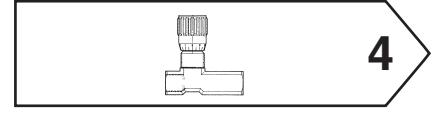
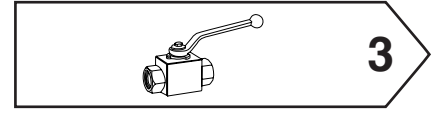
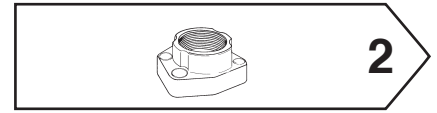
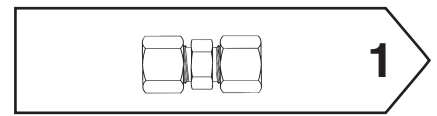
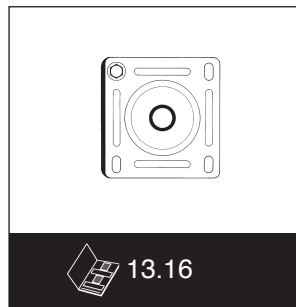
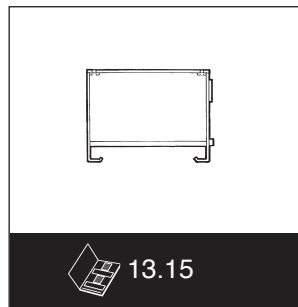
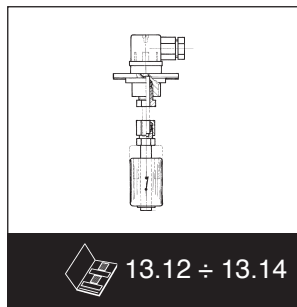
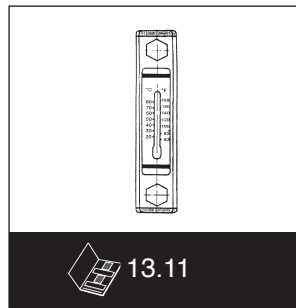
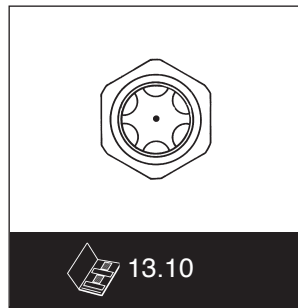
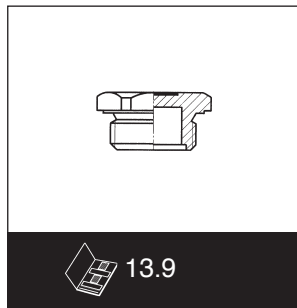
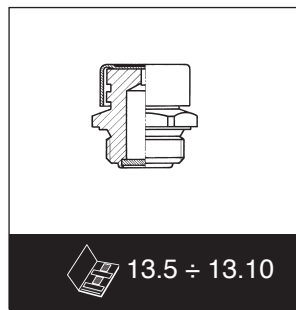
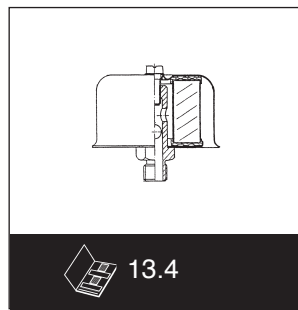
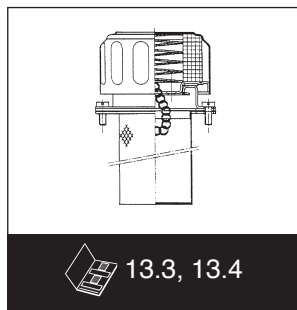
 Draadsoort
 Type de filetage
 Kind of thread
 Gewindeart

&

 Soort afdichting
 Type d'étanchéité
 Kind of sealing
 Dichtungsart

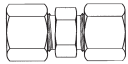
 METR. DIN 13 BSPP UNI ISO 228		 METR.(T) DIN 13 BSPT DIN 3858	 NPTF	 UN-UNF-2a	
 DIN 3852/1-2 Form B	 DIN 3852/1-2 Form (D)E	 DIN 3852/3 Form F	 DIN 3852/1-2 Form C	 ANSI-ASME B1.20.1	 SAE J514
					
					

ATZ Aandrijftechniek B.V. (026-3112611)



ATZ Aandrijftechniek B.V. (026-3112611)

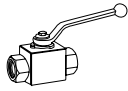
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2



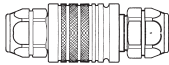
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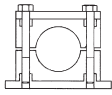
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5



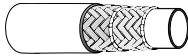
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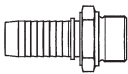
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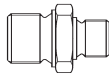
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9



10



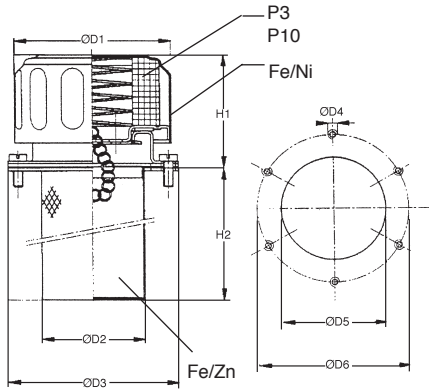
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12



ATZ Aandrijftechniek B.V. (026-3112611)





77001

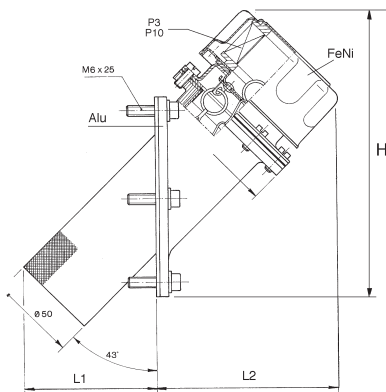

-10/+80°C

Vuldop met zeef en luchtfilter
Bouchon de rempliss. reniflard
Filler breather filter
Einfüll- und Luftfilter



D1	D2	D3	D4	D5	D6	H1	H2			LPM	D4 x	REF.
47	29	52	M5	31	41	48	64	P3	150	3	3	77001-065-P03
47	29	52	M5	31	41	48	64	P10	300	3	3	77001-065-P10
80	50	83	M5	52	73	57	78	P3	450	6	6	77001-080-P03
80	50	83	M5	52	73	57	78	P10	750	6	6	77001-080-P10
80	40	83	M5	42	73	57	100	P3	450	6	6	77001-100-P03*
80	40	83	M5	42	73	57	100	P10	750	6	6	77001-100-P10*
80	50	83	M5	52	73	57	148	P3	450	6	6	77001-150-P03
80	50	83	M5	52	73	57	148	P10	750	6	6	77001-150-P10

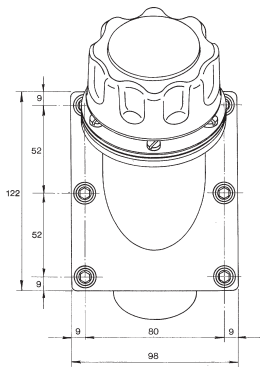
* Uitneembare zeef/Tamis démontable/Removable strainer/Sieb ausnehmbar






77003

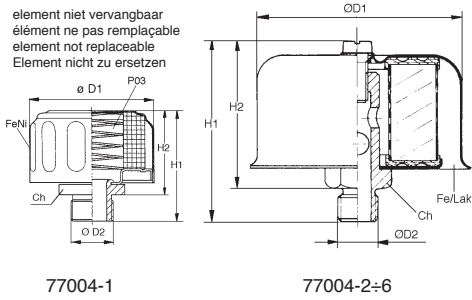

-10/+80°C

Vuldop met zeef en luchtfilter
Bouchon de rempliss. reniflard
Filler breather filter
Einfüll- und Luftfilter



			H	L1	L2	REF.
LPM		kg				
450	P3	0,9	169	76	115	77003-P03
750	P10	0,9	169	76	115	77003-P10

element niet vervangbaar
 élément ne pas remplaçable
 element not replaceable
 Element nicht zu ersetzen



77004

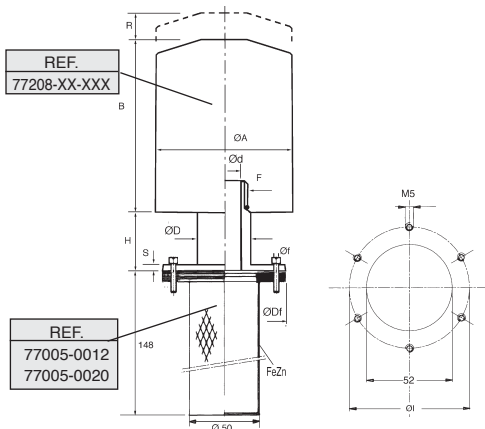


-10/+80°C

Luchtfiler
 Filtre à air
 Air breather
 Luftfilter



D2 BSPP METR.	LPM		D1	Ch	H1	H2	kg	REF.	REF.
G1/4 G3/4	150 450	P03 P03	47 76	19 32	45 66	33 50	0,11 0,35	77004-104-P03 77004-112-P03	— —
G1/4 G3/8 M12x1,5	200 200 200	P10 P10 P10	60 60 60	22 22 17	56 56 56	43 43 43	0,16 0,16 0,16	77004-204-P10 77004-206-P10 77004-2M12-P10	77004-2-P10 77004-2-P10 77004-2-P10
G1/2 G3/4 M16x1,5	500 500 500	P10 P10 P10	82 82 82	24 24 22	71 80 71	53 59 53	0,30 0,30 0,30	77004-308-P10 77004-312-P10 77004-3M16-P10	77004-3-P10 77004-3-P10 77004-3-P10
G1 G1.1/2 G2.1/2 G2.1/2	850 1000 1300 1500	P10 P10 P03 P10	115 145 185 185	40 55 80 80	100 138 190 190	76 113 165 165	0,50 0,52 1,47 1,47	77004-416-P10 77004-524-P10 77004-640-P03 77004-640-P10	77004-4-P10 77004-5-P10 77004-6-P03 77004-6-P10



77005



-25/+110°C

SPIN-ON

Luchtfiler met vulzeef
 Bouchon de rempliss. reniflard
 Filler breather filter
 Einfüll- und Luftfilter

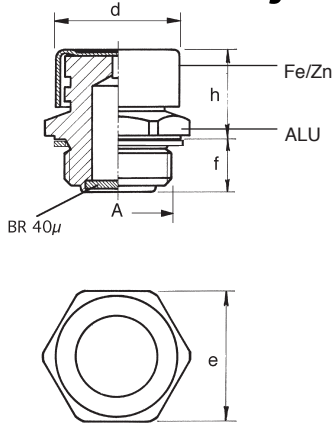


13

	Lucht / Air / Luft LPM	F BSPP	H	S	Ødf	ØI	Øf	ØD	Ød	ØA	B	R	REF.
11 21	max. 1800 max. 2800	G3/4 G1.1/4	58 58	6,5 6,5	52 83	41 73	6 6	32 48	18 32	96 129	146 181	40 40	77005-0012 77005-0020

SPIN-ON Element - Élément - Element - Element

	A	B BSPP	C	D cm2 P10-P25	REF. P10µ	REF. P25µ	D cm2 A3÷A25	REF. A3µ	REF. A6µ	REF. A12µ	REF. A25µ
11 21	96 129	G3/4 G1.1/4	146 181	3.305 5.560	77208-11-P10 77208-21-P10	77208-11-P25 77208-21-P25	980 5560	77208-11-A03 77208-21-A03	77208-11-A06 77208-21-A06	77208-11-A12 77208-21-A12	77208-11-A25 77208-21-A25

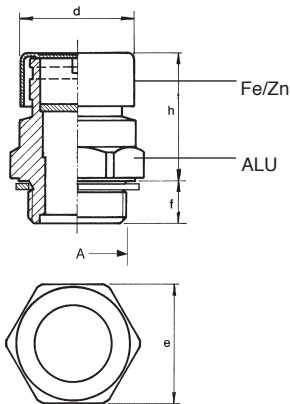


7006



Vulplug met luchtfilter
Bouchon de remplissage
Filler plug with air filter
Einfüllstopfen mit Luftfilter

A BSPP	d	h	f	e	REF.	A METR.	d	h	f	e	REF.
G1/4	16,5	17	8	17	7006-G13	M14x1,5	16,5	17	8	17	7006-M14
G3/8	22	19	10	22	7006-G17	M16x1,5	22	19	10	22	7006-M16
G1/2	26	21	12	27	7006-G21	M18x1,5	22	19	10	22	7006-M18
G3/4	30	24	13,5	32	7006-G27	M20x1,5	24	21	12	24	7006-M20
G1	38	29	16	40	7006-G33	M22x1,5	26	21	12	27	7006-M22
G1.1/4	50	33	16	50	7006-G42	M24x2	30	24	13,5	30	7006-M24
G1.1/2	55	33	16	55	7006-G48	M30x2	30	25	15	36	7006-M30
G2	70	40	16	70	7006-G60	M33x2	38	29	16	40	7006-M33
						M42x3	50	33	16	50	7006-M42
						M48x3	55	33	16	55	7006-M48
						M60x4	70	40	16	70	7006-M60

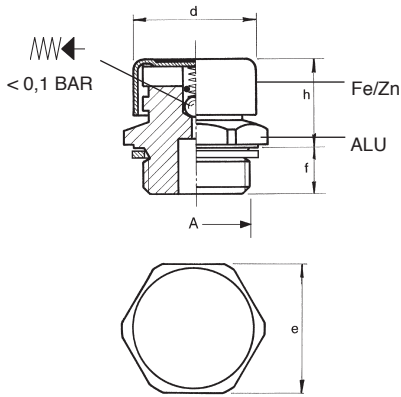


7006-02



Vul- en ventilatieplug (labyrinth)
Bouchon reniflard (labyrinth)
Filler breather plug (labyrinth)
Einfüllstopfen und Lüftungsstopfen (Labyrinth)

A BSPP	d	h	f	e	REF.	A METR.	d	h	f	e	REF.
G1/4	16,5	24	8	17	7006-02-G13	M14x1,5	16,5	24	8	17	7006-02-M14
G3/8	22	29	9	22	7006-02-G17	M16x1,5	22	29	9	22	7006-02-M16
G1/2	26	29	10	27	7006-02-G21	M18x1,5	22	29	9	22	7006-02-M18
G3/4	30	35	12	32	7006-02-G27	M20x1,5	24	29	10	24	7006-02-M20
G1	38	44	14	40	7006-02-G33	M22x1,5	26	29	10	27	7006-02-M22
G1.1/4	50	46	15	50	7006-02-G42	M24x2	30	35	12	30	7006-02-M24
G1.1/2	55	46	15	55	7006-02-G48	M30x2	30	42	12	36	7006-02-M30
G2	70	46	17	70	7006-02-G60	M33x2	38	44	14	40	7006-02-M33
						M42x2	50	46	15	50	7006-02-M42
						M48x3	55	46	15	55	7006-02-M48
						M60x4	70	46	17	70	7006-02-M60

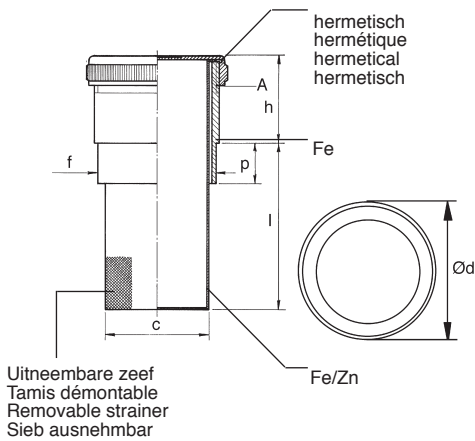


7006-03

Vul- en ontluchtungsplug
Bouchon de remplissage/purgeur
Filler plug with de-aeration
Einfüllstopfen mit Entlüftung



A BSPP	d	h	f	e	REF.	A METR.	d	h	f	e	REF.
G1/4	16,5	17,5	9	17	7006-03-G13	M14x1,5	16,5	17,5	9	17	7006-03-M14
G3/8	22	19	11	22	7006-03-G17	M16x1,5	22	19	11	22	7006-03-M16
G1/2	26	20	11	27	7006-03-G21	M18x1,5	22	19	11	22	7006-03-M18
G3/4	30	24	12	32	7006-03-G27	M20x1,5	24	20	11	24	7006-03-M20
G1	38	29	14	40	7006-03-G33	M22x1,5	26	20	11	27	7006-03-M22
						M24x2	30	24	12	30	7006-03-M24
						M30x2	30	25	14	36	7006-03-M30
						M33x2	38	29	14	40	7006-03-M33



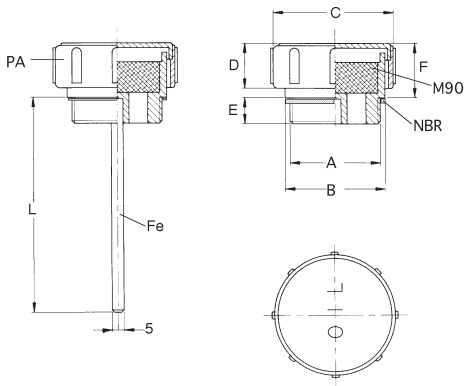
7006-08

Lasvuldop met zeef
Bouchon de rempliss. à souder
Welding filler cap filter
Schweisseinfüllstopfen mit Sieb



13

A BSPP	d	h	p	l	c	Ø f	REF.
G1	42	30	15	60	25	30	7006-08-G33
G1.1/2	54	35	15	80	40	45	7006-08-G48
G2	70	45	20	80	50	57	7006-08-G60



REF. 77007-G42-1

REF. 77007-G42-2

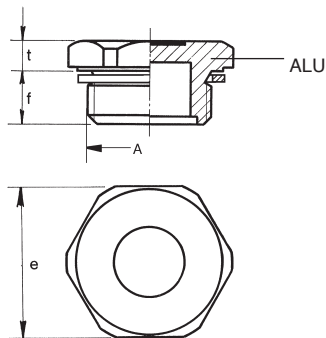
77007



Vulplug met luchtfilter/peilstok
Bouchon de rempliss. reniflard/jauge
Filler plug with air filter/dip-stick
Einfüllstopfen mit Luftfilter/Meßstab

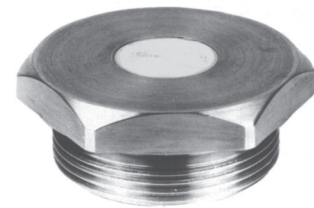
A BSPP	B	C	D	E	L	REF.
G1.1/4	54	66	24,5	14	210	77007-G42-1
G1.1/4	54	66	24,5	14	-	77007-G42-2

* L => / <

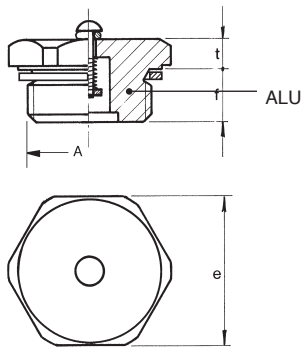


7008

Plug
Bouchon
Plug
Stopfen



A BSPP	t	f	e	REF.	A METR.	t	f	e	REF.
G1/8	5	8	14	7008-G10	M10x1	5	8	14	7008-M10
G1/4	6	8	17	7008-G13	M14x1,5	6	8	17	7008-M14
G3/8	7	10	22	7008-G17	M16x1,5	7	10	22	7008-M16
G1/2	7	10	27	7008-G21	M18x1,5	7	10	22	7008-M18
G3/4	8	12	32	7008-G27	M20x1,5	7	10	24	7008-M20
G1	8	14	40	7008-G33	M22x1,5	7	10	27	7008-M22
G1.1/4	10	15	50	7008-G42	M24x2	8	12	30	7008-M24
G1.1/2	10	15	55	7008-G48	M30x2	8	12	36	7008-M30
G2	12	17	70	7008-G60	M33x2	8	14	40	7008-M33
					M42x3	10	15	50	7008-M42
					M48x3	10	15	55	7008-M48
					M60x4	12	17	70	7008-M60



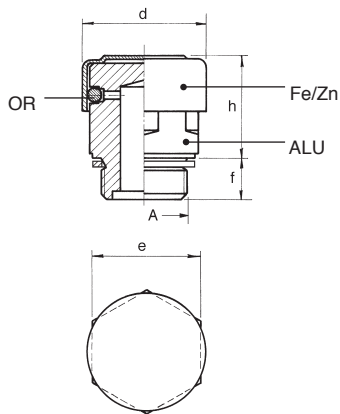
7008-06



**Vul- en ontluichtingsplug
Bouchon de remplissage
Filler plug with de-aeration
Einfüllstopfen mit Entlüftung**



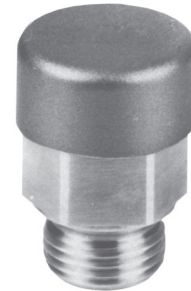
A BSPP	t	f	e	REF.	A METR.	t	f	e	REF.
G1/8	5	8	14	7008-06-G10	M10x1	5	8	14	7008-06-M10
G1/4	6	8	17	7008-06-G13	M12x1,5	6	8	17	7008-06-M12
G3/8	7	10	22	7008-06-G17	M14x1,5	6	8	17	7008-06-M14
G1/2	7	10	27	7008-06-G21	M16x1,5	7	10	22	7008-06-M16
G3/4	8	12	32	7008-06-G27	M18x1,5	7	10	22	7008-06-M18
G1	8	14	40	7008-06-G33	M20x1,5	7	10	24	7008-06-M20
					M22x1,5	7	10	27	7008-06-M22



7008-07

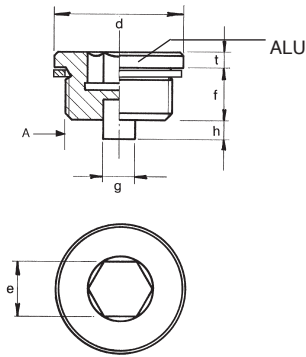


**Vul- en ontluichtingsplug
Bouchon de remplissage/purgeur
Filler plug with de-aeration
Einfüllstopfen mit Entlüftung**



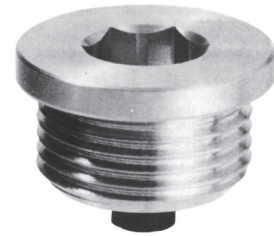
13

A BSPP	d	h	f	e	REF.	A	d	h	f	e	REF.
G1/4	21	21	8	17	7008-07-G13	M14x1,5	21	21	8	17	7008-07-M14
G3/8	24	23	9	20	7008-07-G17	M16x1,5	24	23	9	20	7008-07-M16
G1/2	30	26	10	27	7008-07-G21	M18x1,5	30	26	10	27	7008-07-M18
G3/4	30	24	12	32	7008-07-G27	M20x1,5	30	26	10	27	7008-07-M20
G1	38	29	14	40	7008-07-G33	M22x1,5	30	26	10	27	7008-07-M22

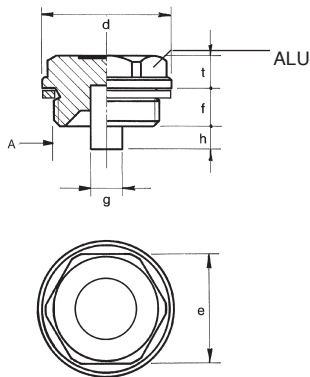


7009-02

Aftapplug met magneet
Bouchon de vidange avec aimant
Drain plug with magnet
Ablaßstopfen mit Magnet



A BSPP	e	g	h	f	t	d	REF.	A METR.	e	g	h	f	t	d	REF.
G1/8	5	5	4	8	3	14	7009-02-G10	M10x1	5	5	4	8	3	14	7009-02-M10
G1/4	6	5	4	12	3	18	7009-02-G13	M14x1,5	6	5	4	12	3	19	7009-02-M14
G3/8	8	5	4	12	3	22	7009-02-G17	M16x1,5	8	5	4	12	3	21	7009-02-M16
G1/2	10	6	5	14	4	26	7009-02-G21	M18x1,5	8	6	5	12	3	23	7009-02-M18
G3/4	12	10	6	16	4	32	7009-02-G27	M20x1,5	10	6	5	14	4	25	7009-02-M20
G1	17	10	6	16	5	40	7009-02-G33	M22x1,5	10	6	5	14	4	27	7009-02-M22
G1.1/4	22	15	10	16	5	49	7009-02-G42	M24x2	12	6	5	14	4	29	7009-02-M24
G1.1/2	24	15	10	16	5	55	7009-02-G48	M30x2	17	10	6	16	4	36	7009-02-M30
								M33x2	17	10	6	16	5	40	7009-02-M33

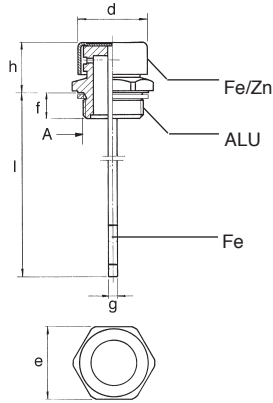


7010

Aftapplug met magneet
Bouchon de vidange avec aimant
Drain plug with magnet
Ablaßstopfen mit Magnet



A BSPP	e	g	h	f	t	d	REF.	A METR.	e	g	h	f	t	d	REF.
G1/8	10	5	4	8	8	15	7010-G10	M10x1	10	5	4	8	8	15	7010-M10
G1/4	14	5	4	8	8	18	7010-G13	M14x1,5	14	5	4	8	8	18	7010-M14
G3/8	18	5	5	9	8	22	7010-G17	M16x1,5	18	5	5	9	8	22	7010-M16
G1/2	22	6	6	11	9	28	7010-G21	M18x1,5	18	5	5	9	9	24	7010-M18
G3/4	27	10	6	12	10,5	32	7010-G27	M20x1,5	20	6	6	10	9	26	7010-M20
G1	34	10	7	14	10,5	40	7010-G33	M22x1,5	22	6	6	11	9	28	7010-M22
								M24x2	24	8	6	12	9	30	7010-M24
								M30x2	30	10	6	12	10,5	38	7010-M30
								M33x2	34	10	7	14	10,5	40	7010-M33

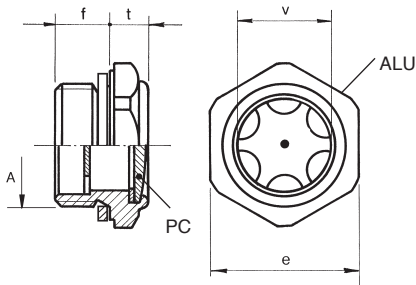


7102

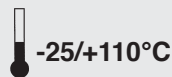
Plug met peilstok en ventilatie
Bouchon avec jauge et aérage
Plug with dip-stick and breather
Stopfen mit Meßstab und Lüftung



A BSPP	d	h	f	l	g	e	REF.	A METR.	d	h	f	l	g	e	REF.
G3/8	22	20	9	170	5	22	7102-G17	M16x1,5	22	20	9	170	5	22	7102-M16
G1/2	26	22	10	170	5	27	7102-G21	M18x1,5	22	20	10	170	5	22	7102-M18
G3/4	30	24	12	200	5	32	7102-G27	M20x1,5	24	22	10	170	5	24	7102-M20
G1	38	29	14	200	5	40	7102-G33	M22x1,5	26	22	10	170	5	27	7102-M22
G1.1/4	50	33	15	250	5	50	7102-G42	M24x2	30	24	12	200	5	30	7102-M24
G1.1/2	55	33	15	250	5	55	7102-G48	M30x2	30	25	12	200	5	36	7102-M30
G2	70	40	17	250	5	70	7102-G60	M33x2	38	29	14	200	5	40	7102-M33
								M42x3	50	33	15	250	5	50	7102-M42
								M48x3	55	33	15	250	5	55	7102-M48
								M60x4	70	40	17	250	5	70	7102-M60



7103

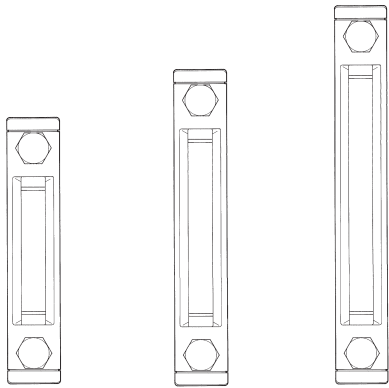


Peilglas
Indicateur de niveau à vue
Level gauge
Flüssigkeitsstandanzei



13

A BSPP	f	t	v	e	REF.	A METR.	f	t	v	e	REF.
G1/4	8	8	10	17	7103-G13	M14x1,5	8	8	10	17	7103-M14
G3/8	9	7	12	22	7103-G17	M16x1,5	9	7	12	22	7103-M16
G1/2	10	7	15	27	7103-G21	M18x1,5	9	7	12	22	7103-M18
G3/4	11	8	20	32	7103-G27	M20x1,5	10	7	15	24	7103-M20
G1	14	9	25	40	7103-G33	M22x1,5	10	7	15	27	7103-M22
G1.1/4	15	9	34	50	7103-G42	M24x2	11	8	15	30	7103-M24
G1.1/2	15	9	38	55	7103-G48	M30x2	11	8	20	36	7103-M30
G2	17	10	48	70	7103-G60	M33x2	14	9	25	40	7103-M33
						M42x3	15	9	34	50	7103-M42
						M48x3	15	9	38	55	7103-M48
						M60x4	17	10	48	70	7103-M60

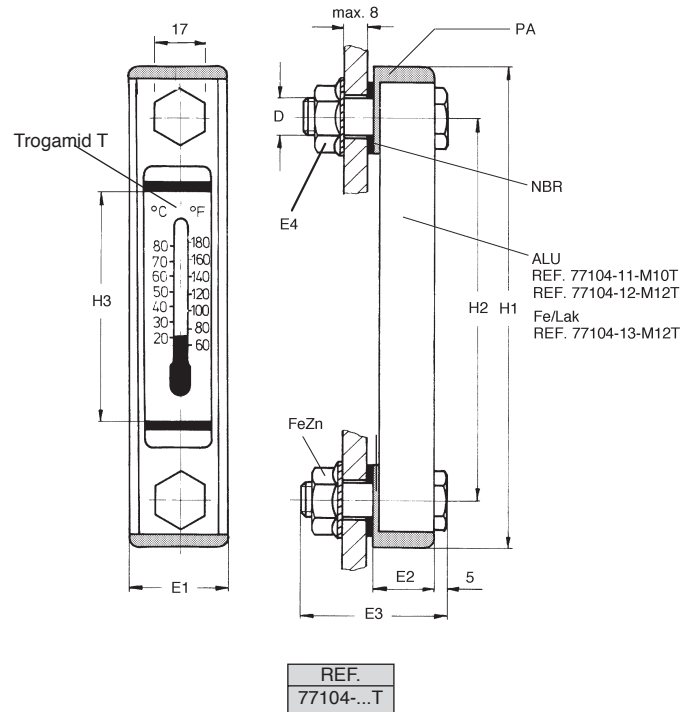
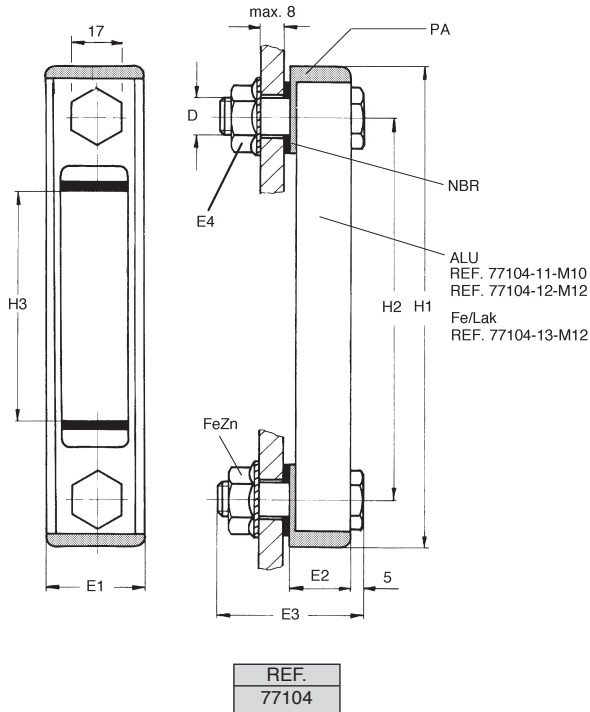


REF. 77104-11 REF. 77104-12 REF. 77104-13

77104

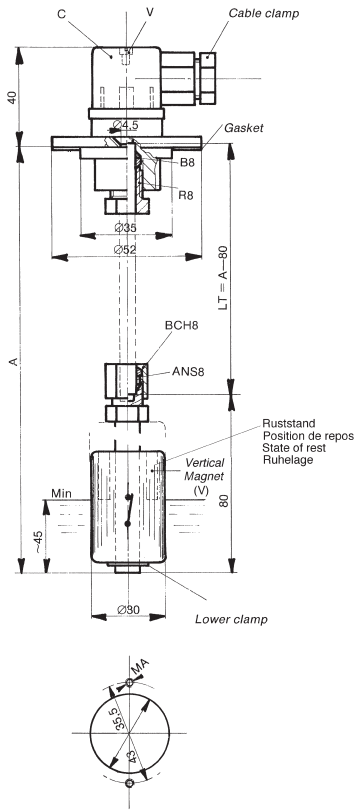
-20/+90°C

Peilglas
Indicateur de niveau à vue
Level gauge
Flüssigkeitsstandanzeige



H1	H2	H3	D METR.	E1	E2	E3			REF.
							BAR	E4 Nm	
108	76	32	M10	35	24	50	1	10	77104-11-M10
160	127	78	M12	35	24	50	1	10	77104-12-M12
286	254	202	M12	35	24	50	1	10	77104-13-M12

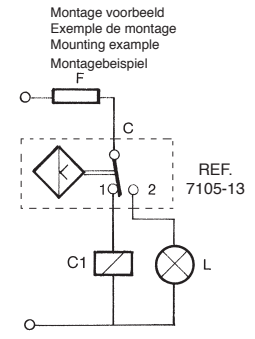
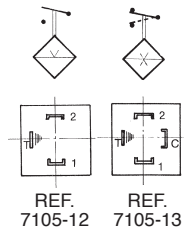
H1	H2	H3	D METR.	E1	E2	E3			REF.
							BAR	E4 Nm	
108	76	32	M10	35	24	50	1	10	77104-11-M10T
160	127	78	M12	35	24	50	1	10	77104-12-M12T
286	254	202	M12	35	24	50	1	10	77104-13-M12T



7105-12
7105-13

Nivoschakelaar
Commutateur de niveau
Level switch
Niveauschalter

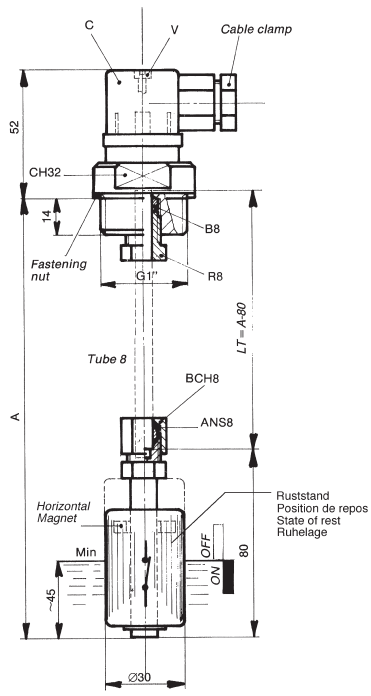
Flensmontage
Montage à bride
Flange mounting
Flanschmontage



F= zekering/fusible/fuse/Sicherung
C1= relais/relais/relais/Relais
L= lamp/lampe/lamp/Lampe

	Enkel Simple Single Einzel	Wissel Échange Exchange Wechsel
A*	REF. (NC)	REF.
380	7105-12-300	7105-13-300

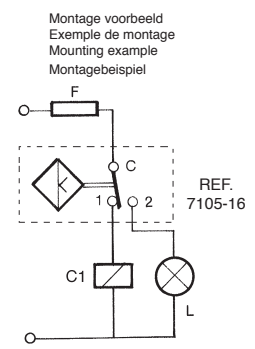
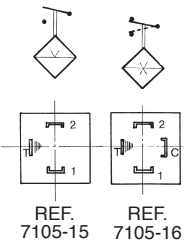
*A = > / <



7105-15
7105-16

Nivoschakelaar
Commutateur de niveau
Level switch
Niveauschalter

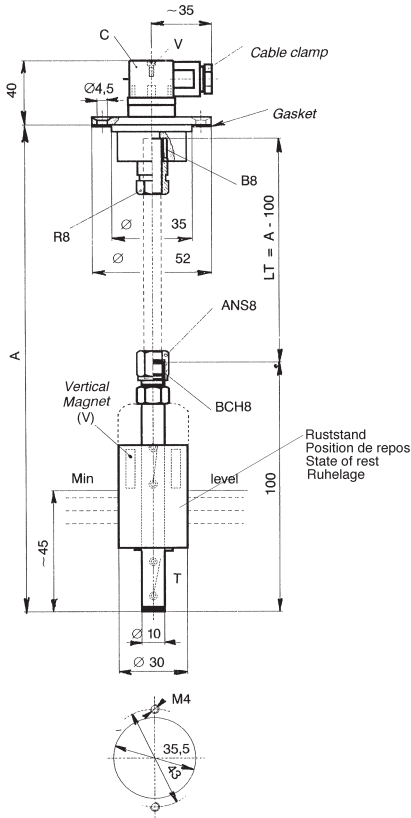
Schroefmontage
Montage à visser
Screw mounting
Schraubmontage



F= zekering/fusible/fuse/Sicherung
C1= relais/relais/relais/Relais
L= lamp/lampe/lamp/Lampe

	Enkel Simple Single Einzel	Wissel Échange Exchange Wechsel
A*	REF. (NC)	REF.
380	7105-15-300	7105-16-300

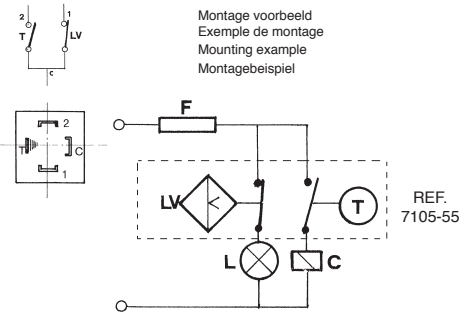
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7105-55

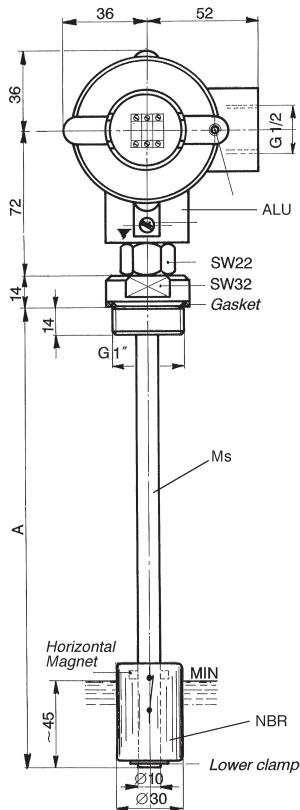
Nivo-/Temperatuurschakelaar
Commutateur de niveau et temp.
Level/temperature switch
Niveau-/Temperaturschalter

Flensmontage
 Montage à bride
 Flange mounting
 Flanschmontage



A*	 (NO) (NC)	T Set (T=5°C)
	REF.	
400	7105-55-300-40	40°C
400	7105-55-300-50	50°C
400	7105-55-300-60	60°C
400	7105-55-300-70	70°C
400	7105-55-300-80	80°C

*A = > / <

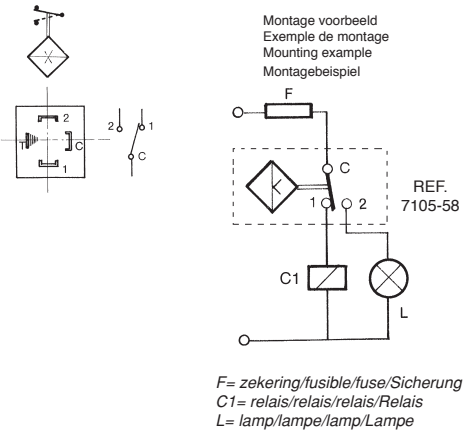


7105-58

Nivoschakelaar
Commutateur de niveau
Level switch
Niveauschalter

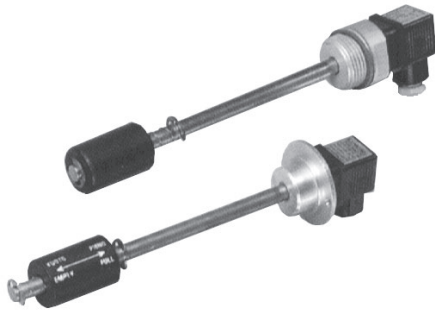
Explosion proof EExd II CT6-EN 50014-18

Schroefmontage
 Montage à visser
 Screw mounting
 Schraubmontage



A*	Wissel Échange Exchange Wechsel	
	REF.	
150	7105-58-150	

*A = > / <



**Algemene informatie
Informations générales
General information
Allgemeine Information**

**Nivoschakelaar
Commutateur de niveau
Level switch
Niveauschalter**



Technische informatie nivoschakelaar met enkelkontakt

Konstruktie:	- aluminium flens - messing pijp of roestvaststaal - NBR of roestvaststaal vlotter
Schakelvermogen:	- DC max. 60 W - AC max. 60 VA
Spanning:	max. 220 V-50 Hz
Max. stroomsterkte:	0,8 A (ohmse belasting)
Kontaktkapaciteit:	0,6 pF
Isolatiweerstand:	10 ¹⁰ ohm
Elektrische aansluiting:	DIN 43650 - IP 65
Temperatuurbereik:	-10/+80 °C
Viton max. temperatuur:	130°C
Montage:	verticaal, afstand vlotter tot metalen delen tenminste 50 mm.
Max. overhelling:	15°
Werkdruk:	max. 10 BAR
S.G. vloeistof:	0,7
Vloeistof viscositeit max.:	150 cSt / 30° E

Bij types met enkelkontakt en verticale magneten (V) in de vlotter kan kontakt NC (normaal gesloten) veranderd worden in kontakt NO (normaal open) door de vlotter om te keren.

Technische informatie nivoschakelaar met wisselkontakt

Schakelvermogen:	30 W
Spanning:	max. 220 V-50 Hz
Max. stroomsterkte:	0,5 A (ohmse belasting)
Kontaktkapaciteit:	2 pF
Isolatiweerstand:	109 ohm

Afwijkende uitvoeringen op aanvraag leverbaar.

Technical data level switch single contact

Construction:	- aluminium flange - brass tube or stainless steel - NBR resin float or stainless steel
Commutated power:	- DC max. 60 W - AC max. 60 VA
Tension:	max. 220 V-50 Hz
Max. intensity of current:	0,8 A (resistive)
Contact capacity:	0,6 pF
Insulation resistance:	10 ¹⁰ ohm
Connector:	DIN 43650 - IP 65
Temperature range:	-10/+80 °C
Gasket Viton max. temperature:	130°C
Mounting:	vertical, distance between float and metal parts must be at least 50 mm.
Max. inclination:	15°
Working pressure:	max. 10 BAR
Specific weight of fluid:	0,7
Fluid viscosity max.:	150 cSt / 30° E

Types with single switch and vertical magnets (V) in the floater contact NC (normal closed) can be changed in contact NO (normal open) by turn over the float.

Technical data level switch with exchange contacts

Commutated power:	30 W
Voltage:	max. 220 V-50 Hz
Max. intensity of current:	0,5 A (resistive)
Contact capacity:	2 pF
Contact insulation resistance:	109 ohm

Other types on request.

Information technique commutateur de niveau avec contact à simple effet

Construction:	- bride en aluminium - tube en laiton ou inox - flotteur en NBR ou inox
Puissance de commutation:	- DC max. 60 W - AC max. 60 VA
Tension:	max. 220 V-50 Hz
Puissance max.:	0,8 A AC/CC
Capacité de contact:	0,6 pF
Resistance d'isolement:	10 ¹⁰ ohm
Connecteur:	DIN 43650 - IP 65
Température max.:	-10/+80 °C
Viton température max.:	130°C
Emballage:	vertical, le flotteur doit être à une distance min. de 50 mm de tout pièce métallique.
Max. inclinaison:	15°
Pression utilisé:	max. 10 BAR
Poids spécifique de fluide:	0,7
Viscosité du fluid max.:	150 cSt / 30° E

Dans les flotteurs avec contact à simple effet et à aimants verticaux (V) on peut changer le contact de NC (normalement fermé) en le contact de NO (normalement ouvert) en retournant le flotteur.

Information technical commutateur de niveau avec contact échange

Puissance de commutation:	30 W
Tension:	max. 220 V-50 Hz
Puissance max.:	0,5 A AC/CC
Capacité de contact:	2 pF
Resistance d'isolement:	109 ohm

Sur demande autre dimensions.

Technische Information Niveauschalter mit Einzelkontakt

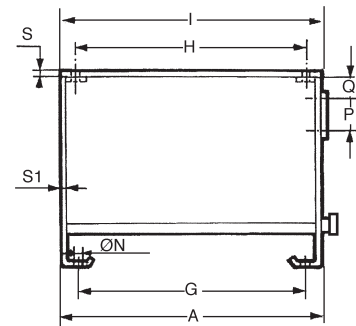
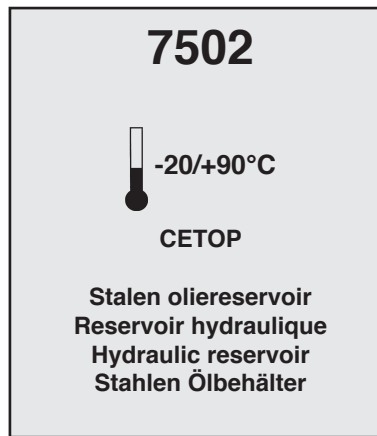
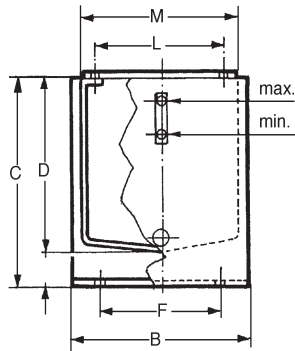
Werkstoff:	- Flansch aus Aluminium - Rohr aus Messing oder Edelstahl - Schwimmer aus NBR oder Edelstahl
Schaltleistung:	- DC max. 60 W - AC max. 60 VA
Kontaktennennspannung:	max. 220 V-50 Hz
Kontaktennennstrom:	0,8 A (Widerstandlast)
Kontaktkapazität:	0,6 pF
Isolationswiderstand:	10 ¹⁰ ohm
Anschluss:	DIN 43650 - IP 65
Temperatur Bereich:	-10/+80 °C
Viton max. Temperatur:	130°C
Montage:	Senkrecht, Abstand zwischen Schwimmer und Metallteile min. 50 mm.
Max. Neigung:	15°
Betriebsdruck:	max. 10 BAR
Spez. Gewicht der Flüssigkeit:	0,7
Flüssigkeitsviskosität max.:	150 cSt / 30° E

Bei Typen mit Einzelschalter und Vertikalmagnet (V) kann kontakt NC (normal geschlossen) in kontakt NO (normal offen) durch Umkehr des Schwimmers geändert werden.

Technische information Niveauschalter mit Wechselkontakt

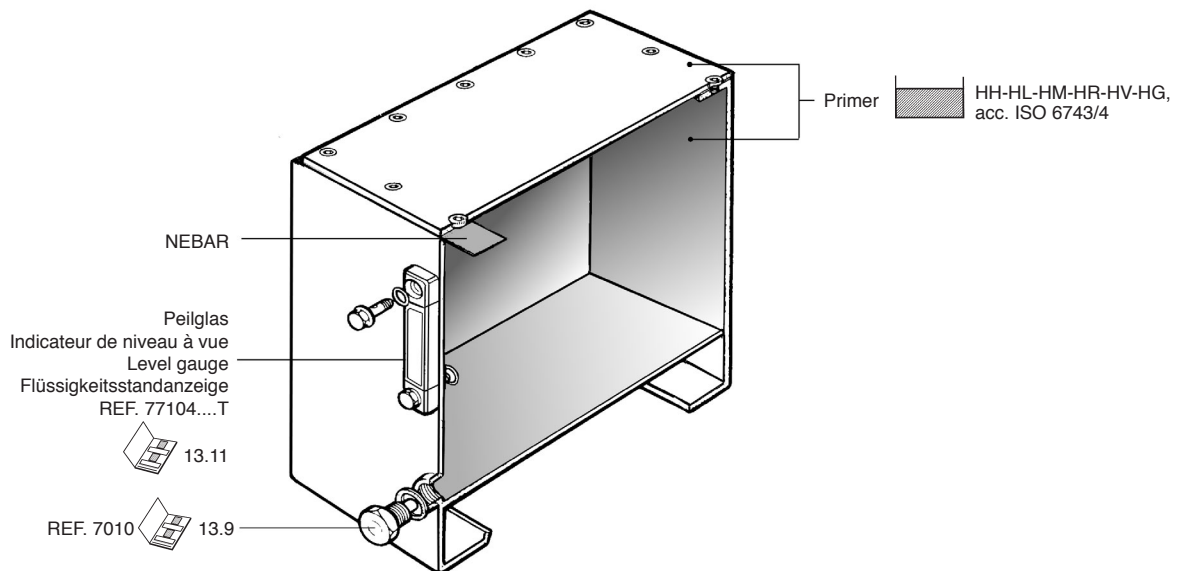
Schaltleistung:	30 W
Kontaktennennspannung:	max. 220 V-50 Hz
Kontaktennennstrom:	0,5 A (Widerstandlast)
Kontaktkapazität:	2 pF
Isolationswiderstand:	109 ohm

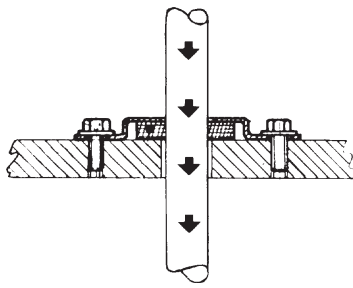
Abweichende Ausführungen auf Anfrage lieferbar.



A	B	C	D	E	F	G	H	I	L	M	N	S	S1	P	Q	Ltr.	Fe REF.
310	310	275	220	55	220	260	282	310	270	298	11	4	4	76	50	12	7502-012
400	310	325	270	55	220	350	372	400	270	298	11	4	4	76	50	20	7502-020
470	310	400	345	55	220	420	442	470	270	298	11	5	4	76	50	35	7502-035
500	400	420	365	55	310	450	472	500	360	388	11	5	4	76	50	50	7502-050
550	400	445	390	55	310	500	522	550	360	388	11	5	4	76	50	60	7502-060
550	400	530	475	55	310	500	522	550	360	388	11	5	4	127	50	75	7502-075
700	400	530	475	55	310	650	672	700	360	388	11	6	4	127	50	100	7502-100
750	500	620	565	55	410	700	722	750	460	488	11	6	4	127	80	150	7502-150
900	600	650	595	55	510	850	872	900	560	588	11	8	4	127	80	225	7502-225
900	700	700	645	55	610	850	872	900	660	688	11	8	4	127	80	300	7502-300

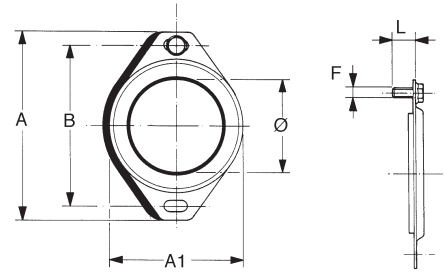
Afwijkende maten
 Autre dimensions
 Other dimensions
 Andere Abmessungen




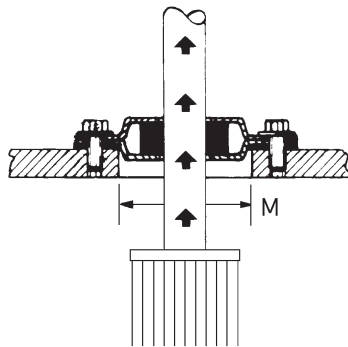


77701

Retourleidingflens
Traversée de cloison
Return line flange
Rücklaufflansch

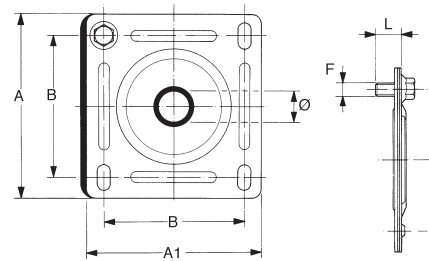



A	A1	B	Ø	F 2x	L	 Kg	Fe/Zn REF.
71	38	54	6÷10	M6	15	0,05	77701-06-10
71	38	54	12÷15	M6	15	0,05	77701-12-15
71	38	54	16÷20	M6	15	0,05	77701-16-20
120	80	102	22÷25	M6	15	0,10	77701-22-25
120	80	102	26÷30	M6	15	0,10	77701-26-30
120	80	102	32÷35	M6	15	0,10	77701-32-35
120	80	102	38÷42	M6	15	0,10	77701-38-42
120	80	102	48÷50	M6	15	0,10	77701-48-50
120	80	102	60÷61	M6	15	0,10	77701-60-61



77702

Zuigleidingflens
Bride d'aspiration
Suction line flange
Saugleitungsfansch



A	A1	B	Ø	F 4x	L	M	 Kg	Fe/Zn REF.
140	134	108	12÷15	M10	20	110	0,60	77702-12-15
140	134	108	16÷20	M10	20	110	0,60	77702-16-20
140	134	108	22÷25	M10	20	110	0,55	77702-22-25
140	134	108	26÷30	M10	20	110	0,55	77702-26-30
140	134	108	32÷35	M10	20	110	0,55	77702-32-35
140	134	108	38÷42	M10	20	110	0,55	77702-38-42
190	190	159	48÷50	M10	20	164	0,95	77702-48-50
190	190	159	60÷61	M10	20	164	0,90	77702-60-61
190	190	159	75÷77	M10	20	164	0,85	77702-75-77
190	190	159	87÷89	M10	20	164	0,85	77702-87-89





























































Afkortingen - Abréviation - Abbreviation - Abkürzungen

A	Microglasvezel (absolute filtratie) Microfibre de verre (filtration absolu) Glass microfiber (absolute filtration) Mikro Glasfaser (absolut Filtration)	Cu	Koper Cuivre Copper Kupfer	Steel zinc plated yellow passivated Stahl verzinkt gelb passiviert
ABS	American Bureau of Shipping	CuZn	Messing Laiton Brass Messing	FKM Fluor elastomeer =Viton® (Registered trade mark of Du Pont de Nemours) FLAT FACE Vlakke afdichting Étanchéité plat Flat seal Flache Dichtung
ADA	Op alle poorten hoogste druk toegestaan Pression permise à tous les raccords On all connections pressure allowed Allseitig druckbeaufschlagbar	CuZn/Ni	Messing vernikkeld Laiton nickélé Brass nickel Messing vernickelt	Flatseal Afdichting d.m.v. ring Étanchéité par joint Sealing by ring Dichtung mittels Ring
AFNOR xc 18	Smeedstaal Acier forgé Forged steel Schmiedestahl	CuZn/Cr	Messing verchromd Laiton chromé Brass chrome plated Messing verchromt	FULL FLOW Volle doorlaat (zonder klep) Passage intégral (sans clapet) Full flow (without valve) Voller Durchfluss (ohne Ventil)
AISI	Roestvaststaal Acier inoxydable Stainless steel Rostfreistaal	Cv	Doorstroombcoëfficiënt Coefficient de débit Flow coefficient Durchflusskoeffizient	FPM Fluoro-carbon (Viton®)
AISI 304 AISI 316 /A4 AISI 316 Ti	= Ws.nr. 1.4301 = Ws.nr. 1.4401 = Ws.nr. 1.4571	C60	Smeedstaal Acier forgé Forged steel Schmiedestahl	FS Eindwaarde van schaal Echelle complète Full scale Ganzer Skala
ALU	Aluminium legering Alliage aluminium Aluminium alloy Aluminium Legierung	DIN	Deutsche Industrie Norm	GFTE Glasvezel versterkt PTFE PTFE renforcé avec fibre de verre PTFE reinforced with glass fibre Glasfaser versterkt PTFE
ARB	Gevlochten aramide inlage Tresse aramide Aramide braid Aramidegeflecht	D.N.V.	Det Norske Veritas	g Gram Gramme Gram Gramm Gram
AS	Australian Standard	DN	Nominale inwendige diameter Diamètre intérieur nominal Nominal bore Nominaler Innendurchmesser	GL Germanischer Lloyd
ASTM 105	Smeedstaal Acier forgé Forged steel Schmiedestahl	DN1	Nominale doorlaat Diamètre nominal Nominal bore Nennweite	Globeseal Konusafdichting Étanchéité par cône Cone seal Konusdichtung
BALL	Afdichting d.m.v. kogel Étanchéité par sphere Sealing by ball Dichtung mittels Kugel	DN2	Nominale doorlaat kogel Diamètre nominal du boisseau Nominal bore ball Nennweite Kugel	GPM Gallon per minuut Gallon par minute Gallon per minute Gallone pro Minute
BAR 1=	1000 mbar 105 Pa 100 kPa 0,1 MPa 1,01972 kgf/cm2(=kp/cm2) 10197,16 mmwk 10,1972 mwk 750,062 mmHg (=Torr.) 14,5038 lb/in2 (=psi=psig)	Dyn.	Dynamisch (pulserend) Dynamique (pulser) Dynamic (pulsating) Dynamisch (pulserend)	INCH Afmeting in inches (25,4 mm) Dimension en pouces (25,4 mm) Dimensions in inches (25,4 mm) Abmessung in Zoll (25,4 mm)
Bi-directional	Twee stroomrichtingen Deux sens du courant Two flow directions Zwei Stromrichtungen	EExd 11 CT6	Class Explosion proof	IP54 Beschermingsgraad Classe de protection Protection class Schutzklasse
BP	By-pass	ED/DR	Afdichting d.m.v. elastische ring, max. 100°C Étanchéité par joint élastique, max. 100°C Sealing by elastical sealing, max. 100°C Dichtung mittels elastischer Ring, max. 100°C	ISO International Organization for Standardization
Brs	Brons Bronze Bronze Bronze	EN	Europese norm Norme Européenne European standard Europäische Norm	JIC SAE J514 37° afdichting SAE J514 cone 37° SAE J514 37° seal angle SAE J514 37° Konusdichtung
BSB	Gevlochten messing draadinlage Tresse laiton Brass wire braid Messingdrahtgeflecht	EN 50014-18	Class Explosion proof	Kg Kilogram Kilogramme Kilogramme Kilogramm
BSPP	British Standard Pipe Parallel (G)	F	Veiligheidsfactor Coefficient de sécurité Safety factor Sicherheitsfaktor	KI Klasse Classe Class Klasse
BSPT	British Standard Pipe Tapered (R)	Fe	Staal Acier Steel Stahl	L Lengte Longueur Length Länge
BV	Bureau Vertitas	Fe/Lak	Gelakt staal Acier laqué Lacquered steel Lackiert Stahl	LL Extra lichte serie Série très légère Serie extra light Sehr leichte Baureihe
CETOP	Comité Européen des Transmissions Oléohydrauliques et Pneumatiques	Fe 33	Materiaal: staal St.33 Matière: acier St.33 Material: steel St.33 Werkstoff: Stahl St.33	LOBA Landesoberbergamt Nordrhein-Westfalen
CH	Kanaal Ligne Channel Kanal	Fe/Cr	Staal verchromd Acier chromé Steel chrome plated Stahl verchromt	LPM Liter per minuut Litre par minute Liter per minute Liter pro Minute
CHERCHAR	Centre d'Etudes et Recherches des Charbonnages de France	Fe/Zn	Staal verzinkt Acier zingué Steel zinc plated Stahl verzinkt	m Afmeting in meter Dimension en mètre Dimension in meter Abmessung in Meter
con.	Conisch Conique Tapered Konisch	Fe/P	Staal gefosfateerd Acier phosphaté Steel phosphated Stahl phosphatiert	M Metaal- of messinggaas (absolute filtratie) Toile filtrante acier ou laiton (filtration absolu) Metal- or copper wire mesh (absolute filtration) Metall- oder Messinggewebe (absolute Filtration)
cSt	Centistoke (=mm2/sec=1,04°Engler)	Fe/SM	Smeedstaal Acier forgé Forged steel Schmiedestahl	Metallic seal Afdichting metaal op metaal Étanchéité métal sur métal Sealing metal on metal Metalliche Dichtung
Cu.	Koper Cuivre Copper Kupfer	Fe/SM/P	Smeedstaal gefosfateerd Acier forgé phosphaté Forged steel phosphated Schmiedestahl phosphatiert	METR. Metrisch Métrique Metric Metrisch
Fe/P	Staal gefosfateerd Acier phosphaté Steel phosphated Stahl phosphatiert	Fe/Zn/YP	Staal verzinkt geel gepassiveerd Acier zingué passivé jaune	
CFR	Carbonvezel versterkt PTFE PTFE renforcé avec fibre carbon PTFE reinforced with carbon fibre Karbonfibre versterkt PTFE			
cSt.	Centistoke (=mm2/sec=1,04° Engler)			

Afkortingen - Abréviation - Abbreviation - Abkürzungen

MIN.	Minuut Minute	PPR	Buitenmantel is geperforeerd Robe extérieure est perforée Outer cover perforated Aussendecke ist perforiert	SPB	Spiraal staalinlage Nappes en spirales d'acier Steel spiral braids Stahldraht Spiraleinlage
mm	Millimeter Millimètre Millimetre Millimeter	PSI	Lb (Pound) Square Inch = 0,06893 bar	Spec.	Volgens DIN/SAE specificatie Suivant DIN/SAE specification According to DIN/SAE specification Laut DIN/SAE Spezifikation
Ms	Messing Laiton Brass Messing	PTFE	Poly-Tetra-Fluor-Ethyleen = TEFLON ®(Registered trade mark of Du Pont de Nemours)	SSB	Roestvaststalen omvlechting Tresse acier inoxydable Stainless steel wire braid Rostfreies Stahldrahtgeflecht
MSHA	U.S. Mine Safety and Health Administration	PUR	Polyurethaan Polyuréthane Polyurethane Polyurethan	Stat.	Statisch Statique Static Statisch
NA	Niet op alle poorten hoogste werkdruk toegestaan Pression totale pas permise à tous les raccordements Not on all connections total pressure allowed Nicht allseitig Totaldruck beaufschlagbar	PUSH	Koppelen/ontkoppelen: drukken aan buitenring Coupler et découpler en poussant sur bague extérieure Connecting/disconnecting by pushing outer ring Kuppeln/entkuppeln durch pressen Aussensring Druckverlust	SW	Stalen spiraal Spirale en acier Steel helix Stahlwendel
NC	Kontakt normaal gesloten (=ruststand) Contact normalement fermé (=position de repos) Contact normal closed (=state of rest) Kontakt normal geschlossen (=Ruhelage)	PUSH-PULL	Koppelen/ontkoppelen: drukken/trekken aan buitenring Dé-/ coupler en poussant/tirant sur bague extérieure Connecting/disconnecting by pushing/pulling outer ring Kuppeln/entkuppeln durch pressen/ziehen Aussensring	TB	Synthetische textielinlagen Tresse textile synthétique Synthetic textile braid Synthetisches Textilgeflecht
Nm	Newton meter Newton mètre Newton meter Newton Meter	PVC	Polyvinylchloride Chlorure de polyvinyle Polyvinyl chloride Polyvinylchlorid	Threadseal	Afdichting op schroefdraad Étanchéité sur filetage Sealing on thread Dichtung auf Gewinde
NO	Kontakt normaal open (=ruststand) Contact normalement ouvert (=position de repos) Contact normal open (=state of rest) Kontakt normal offen (=Ruhelage)	PW	Versterkt papier met waterabsorberend polymeer Papier renforcé avec polymer absorption de l'eau Reinforced paper with water absorption polymer Papiervlies mit Wasserabsorbierendem polymer	μ	Micrometer =μm
NPTF	National Pipe Tapered Fuel	Q	Volumestroom Débit Flow Fördermenge	UN, UNF, UNC	Schroefdraad UN SAE J514 Filetage UN SAE J514 Thread UN SAE J514 Gewinde UN SAE J514
NPSM	National Pipe Straight Mechanical	r	Buigstraal Rayon courbure Bendradius Biegeradius	V	Snelheid Vitesse Velocity Geschwindigkeit
N.B.	Nominale inwendige diameter Diamètre intérieur nominal Nominale bore Nominaler Innendurchmesser	REF.	Bestelnummer Référence Order number Bestellnummer	Visc.	Viskositeit Viscosité Viscosity Viskosität
NBR	Nitrile butadiëne rubber	REF.*	STER produkt, zie pag. 8.21 Produit astérique, voir page 8.21 STAR product, see page 8.21 STERN Produkt, siehe Seite 8.21	Viton®	=FPM (Registered trademark of Du Pont de Nemours)
Nm	Newton meter Newton mètre Newton meter Newton-Meter	RPM	Toeren per minuut Rotation par minute Rotation per minute Umdrehungen pro Minute	Ws. nr. 1.4571 Ws. nr. 1.4301	Roestvaststaal Acier inoxydable Stainless steel Rostfreistahl
NW	=DN1	RVS 316L INOX	Roestvaststaal AISI 316L / Ws. nr. 1.4404 Acier inoxydable AISI 316L / Ws. nr. 1.4404 Stainless steel AISI 316L / Ws. nr. 1.4404 Rostfreistahl AISI 316L / Ws. nr. 1.4404	Zn	Zink Zinc Zinc Zink
No Skive	Buitenmantel niet pellen Robe extérieure à ne pas dénuder Outer cover not to be skived Aussendecke nicht schälen	S	Zware serie Série forte Strong series Schwere Baureihe	ZnAlCu	Zink legering Alliage zinc Zinck alloy Zinklegierung
O.D.	Buitendiameter Diamètre extérieur Outside diameter Aussendurchmesser	Se	Serie Série Series Baureihe	>>>>	Vervangen door Remplacé par Replaced by Ersetzt durch
OR	Afdichting d.m.v. O-ring Étanchéité par joint Sealing by O-ring Dichtung mittels O-ring	SAE	Norm acc. to Society of Automotive Engineers	3000 PSI	SAE Code 61 (ISO code 6162, tab 1)
OR seal	Afdichting d.m.v. O-ring Étanchéité par joint Sealing by O-ring Dichtung mittels O-ring	SAE COUNTER	Contra SAE SAE contre SAE counter SAE Gegen	6000 PSI	SAE Code 62 (ISO code 6162, tab 2)
ORFS	O-ring face seal (SAE J1453)	SB	Gevlochten staaldraadnlinge Tresse métallique Steel wire braid Stahldrahtgeflecht	Δ P	Drukval Perte de charge Pressure drop Druckverlust
P	Versterkt papiervlies (nominale filtratie) Papier renforcé (filtration nominal) Reinforced paper (nominal filtration) Imprägniertem Papiervlies (nominal Filtration)	SCREW	Koppelen/ ontkoppelen d.m.v. schroeven Coupler et découpler en vissant Connecting/disconnecting by screwing Kuppeln/entkuppeln durch drehen	≠	Niet gelijk aan N'est pas égal à Not equal to Nicht gleich an
PA	Polyamide	s.g.	Soortelijk gewicht Poids spécifique Specific gravity Spezifisches Gewicht	÷	Tot en met Jusqu'au Up to and including Bis einschliesslich
PAG	Glasvezel versterkt polyamide, zelfdovend Polyamide renforcée fibre de verre, auto-extinguible Glasfibre reinforced polyamid, self extinguishing Glasfaser versterkt polyamid, selbsterlöschend	Shore A90	Hardheidsaanduiding Détermination Hardness determination		
PB	Max. toelaatbare bedrijfsdruk Pression max. admissible Max. allowable working pressure Zulässiger Betriebsüberdruck	SID	Sidérurgie		
PC	Polycarbonate	SR	Synthetisch rubber Caoutchouc synthétique Synthetic rubber Synthetischer Gummi		
PE	Polyethelene	Skive	Buitenmantel pellen Robe extérieure à dénuder Outer cover to be skived Aussendecke schälen		
PN	Nominale druk Pression nominal Nominal pressure Nenndruck				
POL	Polyester (Hytrel®)				
POLB	Gevlochten polyester Tresse polyester Polyester braid Polyestergeflecht				
POM	Poly-oxy-methyleen				
PP	Polypropyleen Polypropylène Polypropylene Polypropylen				
(PP)	Samengesteld met PP kappen Composé avec PP demis colliers Composed with PP caps Zusammengesetzt mit PP Kappen				











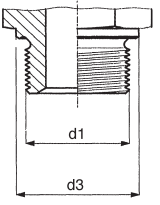
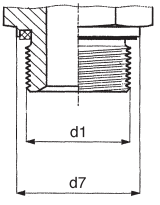
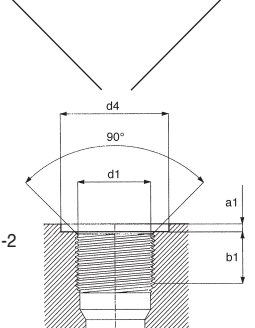
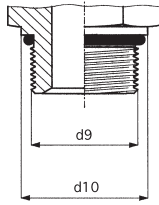
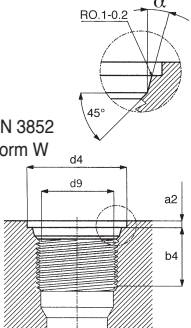
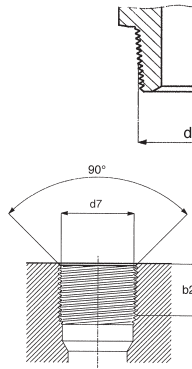
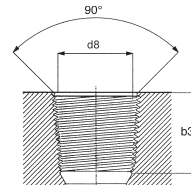

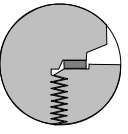
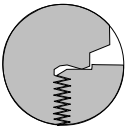
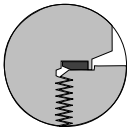
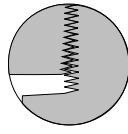
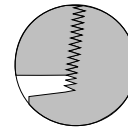
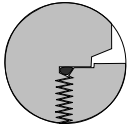
Symbolen - Symbol








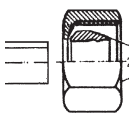
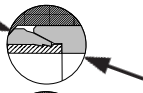
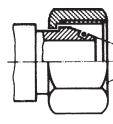
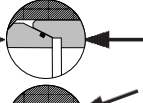
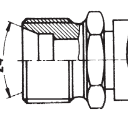
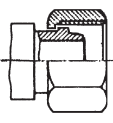
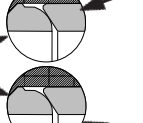
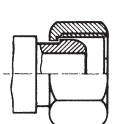
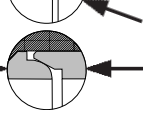
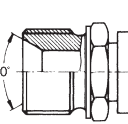
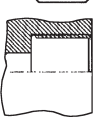
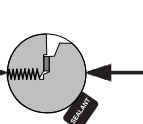
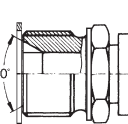

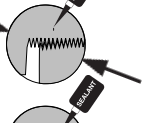
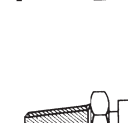
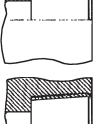
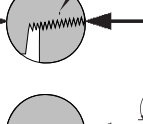
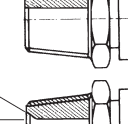
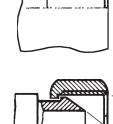
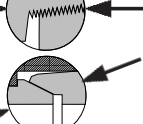
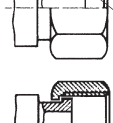
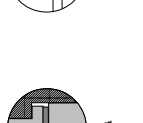
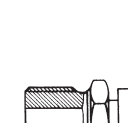
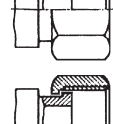
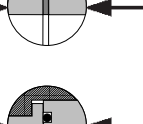
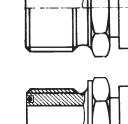
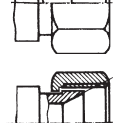
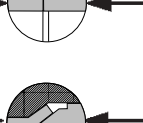
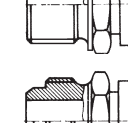
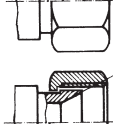
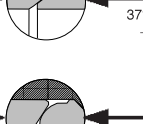
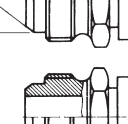
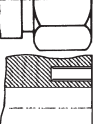
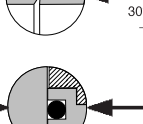
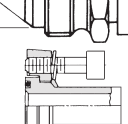
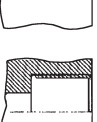
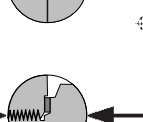
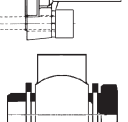
	Nominale inwendige diameter Diamètre intérieur nominal Nominal bore Nominaler Innendurchmesser		Zie blz. nr. Voir page no. See page nr. Siehe Seite nr.		Volumestroom Débit Flow Fördermenge
	Buitendiameter Diamètre extérieur Outside diameter Aussendurchmesser		Temperatuurbestendig °Celsius Résistance de température °Celsius Temperature resistance °Celsius Temperaturbeständig °Celsius		Op aanvraag Sur demande On request Auf Anfrage
	Wanddikte Epaisseur de paroi Wall thickness Wandstärke		Rollengte Rouleau longueur Roll length Rolle Länge		Oliën Huiler Lubricate Ölen
	Buitendiameter Diamètre extérieur Outside diameter Aussendurchmesser		Draadsoort Type de filetage Kind of thread Gewindeart		Zie ook Voir aussi Also see Siehe auch
	Nominale druk Pression nominal Nominal pressure Nenndruck PN		Minimum buigstraal Rayon de courbure minimum Minimum bendradius Minimum Biegeradius		Aanhaalmoment Couple Torque Drehmoment
	Max. werkdruk Max. pression Max. working pressure Max. Betriebsdruck		Diameter op staalinlage Diamètre extérieur tresse acier Diameter wire braid Durchmesser, Drahtgeflecht		Uitlezing digitaal Unité de lecture digital Digital read-out Digital Auslesung
	Nominale druk volgens DIN 2353 Pression nominal ensuite DIN 2353 Nominal pressure acc. DIN 2353 Nenndruck nach DIN 2353 BAR DIN 2353		Buitenmantel pellen Robe extérieure dénudée Outer cove to be skived Aussendecke schälen		Uitgang voor penrecorder/printer Raccordement pour imprimante Printer/pen recorder output Ausgang für Schreiber/Drucker
	Werkdruk volgens SAE J518 Pression ensuite SAE J518 Working pressure acc. SAE J518 Betriebsdruck nach SAE J518 BAR SAE		Buitenmantel niet pellen Robe extérieure à ne pas dénuder Outer cover not to be skived Aussendecke nicht schälen		Batterijvoeding Alimentation par piles Battery supply Stromversorgung durch Batterie
	Testdruk Pression d'épreuve Test pressure Prüfdruck		Buitenmantel + binnenmantel pellen Robe extérieure et intérieure à dénuder Outer cover + inner tube to be skived Aussendecke + Innenseele schälen		220V Netvoeding Alimentation secteur 220V 220V Mains power supply 220V Netzspannung
	Doorstroommeting in 2 richtingen Mesure de débit en 2 directions Flow measurement in 2 directions Durchflussmessung in 2 Richtungen		Medium Médium Medium Medium		Papierrol Rouleau de papier Paper roll Papierrolle
	Doorstroommeting in 1 richting Mesure de débit en 1 direction Flow measurement in 1 direction Durchflussmessung in 1 Richtung		Buitenmantel Robe extérieure Outer cover Aussendecke		Printerlint Ruban pour imprimante Printer tape Druckpresseband
	Drukmeting Mesure de pression Pressure measurement Druckmessung		Barstdruk Pression d'éclatement Burst pressure Platzdruck		Afmeting Dimension Dimension Abmessung
	Temperatuurmeting Mesure de température Temperature measurement Temperaturmessung		Goed (bestand tegen) Bon (résistance à) Good (resistant to) Gut (beständig gegen)		Breekplaatjes Pastilles de sécurité Safety discs Sicherheitsplatten
	Toerentalmeting Mesure de rotation Rotation measurement Drehzahlmessung		Slecht Mauvais Bad Schlecht		Doorstroming in 1 richting, olie Débit en 1 direction, huile Flow in 1 direction, oil Durchfluss in 1 Richtung, Öl
	Opslaan piekdruk Enregistrement pointe de pression Holding peak pressure Speicherung Drucksitzen		Attentie Attention Attention Achtung		Printer Imprimante Printer Drucker
	Uitlezing analog Unité de lecture analogue Analogous read-out Analog Auslesung		Maat Calibre Size Grösse		RAM geheugen RAM mémoire RAM memory RAM Speicher
	Toerental Rotation Rotation Drehung		Koppelmogelijkheid Possibilité de connection Connection possibility Anschlussmöglichkeit		Smoorventiel Vanne d'étranglement Throttle valve Drosselventil
	Gewicht Poids Weight Gewicht		Soort afdichting Type d'étanchéité Kind of sealing Dichtungsart		Element Élément Element Element
	Vacuüm Vide Vacuum Vakuüm		Openingsdruk Pression d'ouverture Cracking pressure Öffnungsdruck		Element Spin-on Élément Spin-on Element Spin-on Element Spin-on
	Bestelnummer Référence de commande Order number Bestellnummer		Afdichtingsmiddel Liquide d'étanchéité Sealant Abdichtungsmittel		Verdraagbaar met vloeistof Compatible avec liquide Compatible with fluid Verträglich mit Flüssigkeit

Symbolen - Symbol

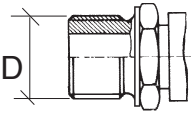
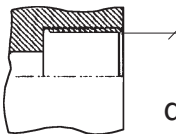




	Filter Filtre Filter Filter		Mineraalolie Huile minéral Mineral oil Mineralöl		Omgevingstemperatuur Température environnt Ambient temperature Umgebungstemperatur
	Drukverschil Pression différentielle Differential pressure Differenzdruck		Perslucht, max. 70°C Air comprimé, max. 70°C Compressed air, max. 70°C Pressluft, max. 70°C		Buitenmantel is geperforeerd Robe extérieure est perforée Outer cover perforated Aussendecke ist perforiert
	Vervuilingindicator Indicateur de colmatage Clogging indicator Verschmutzungsanzeige		Water Eau Water Wasser		Extra licht, kleine buigstraal enz. Très légère, petit rayon de courbure etc. Lightweight, small bend radius etc. Sehr leicht, kleine Biegeradius
	Schakeldruk Pression de commutation Switching pressure Schaltdruk		Chemicaliën Produits chimiques Chemicals Chemikalien		Extra flexibel, licht, kleine buigstraal enz. Très flexible, petit rayon de courbure etc. Very flexible, small bend radius etc. Sehr flexibel, kleine Biegeradius
	By-pass		Mechanische belasting Contrainte mécanique Mechanical load Mechanische Beanspruchung		Dierlijk vetten Graissee animal Animal fat Tierische Fette
	Din 43650 IP 65 Elektrische stekkerverbinding Connexion électrique Electric connection Elektrische Steckverbinding		Slijtage (buitenmantel) À l'abrasion (robe extérieure) Abrasion (outer cover) Verschleiss (Aussendecke)		Stoom Vapeur Steam Dampf
	IP 54 Beschermingsgraad IP 54 Class de protection IP 54 Protection class IP 54 Schutzgrad		Zware slijtage (buitenmantel) À l'abrasion grande (robe extérieure) Extra abrasion (outer cover) Extra Verschleiss (Aussendecke)		Geen stoom Ne pas vapeur No steam Kein Dampf
	IP 65 Beschermingsgraad IP 65 Class de protection IP 65 Protection class IP 65 Schutzgrad		Spuitverf Peinture Paint spray Farbspritz		Zie blz. 8.10 Voir page 8.10 See page 8.10 Siehe Seite 8.10
			Ozon en weer (DIN) Ozone et intempéries (DIN) Ozon and weather (DIN) Ozon und Wetter (DIN)		Pulserende druk Pression pulsatoire Pulspressure Pulsierende Druck
			Water/glycoloplossing Émulsion d'eau et de la glycol Water/glycol emulsion Wasser/Glycol Lösung		Extra lange levensduur Longue durée de fonctionnement Extra long lifetime Extra lange Lebensdauer
			Water/mineraal olieoplossing Émulsion d'eau et d'huile minéral Water/mineral oil emulsion Wasser/Mineralöllösung		Vlambestendig US MSHA IC 152/1 Résistant à flammes US MSHA IC 152/1 Flame resistant US MSHA IC 152/1 Flammenbeständig US MSHA IC 152/1
			Dieselolie Gazole Gas oil Dieselöl		
			Olie op basis van polyglycolen Huile à base de polyglycol Polyglycol base oil Öl auf Polyglykolbasis		
			Olie op basis van synthetische esters Huile à base de esters synthétique Synthetic ester base oil Öl auf Synthetik-Esterbasis		
			Raapzaad olie Huile de colza Rape oil Rapsöl		
			Zeewater Eau de mer Sea water Seewasser		
			Piektemperatuur Température de pointe Peak temperature Spitztemperatur		
			Constante temperatuur Température constant Constant temperature Dauertemperatur		
			Fosfaatesters Skydrol 500B, Pydraul 312 Phosphate ester Skydrol 500B, Pydraul 312 Phosphate esters Skydrol 500B, Pydraul 312 Phosphat-Ester Skydrol 500B, Pydraul 312		
			Hogedruk waterreiniging Nettoyage haute pression High pressure water cleaning		

ATZ Aandrijftechniek B.V. (026-3112611)

Draadsoort Type de filetage				Kind of thread Gewindeart																																																																																																																																																																																																																
 METR. DIN 13 BSPP UNI ISO 228		 METR.(T) DIN 13 BSPT DIN 3858		 NPTF																																																																																																																																																																																																																
 DIN 3852/1-2 Form B		 DIN 3852/1-2 Form (D)E		 DIN 3852/3 Form F																																																																																																																																																																																																																
 DIN 3852/1-2 Form C		 ANSI-ASME B1.20.1		 SAE J514																																																																																																																																																																																																																
  		 		 																																																																																																																																																																																																																
<table border="1"> <thead> <tr> <th colspan="4">METR.</th> <th colspan="4">BSPP</th> <th colspan="2">METR. (T)</th> <th colspan="2">BSPT</th> <th colspan="2">NPTF</th> <th colspan="5">UN(F)</th> </tr> <tr> <th>d1</th> <th>b1</th> <th>a1</th> <th>d4</th> <th>d3</th> <th>d7</th> <th>d1</th> <th>b1</th> <th>a1</th> <th>d4</th> <th>d3</th> <th>d7</th> <th>d6-d7</th> <th>b2</th> <th>d6-d7/8</th> <th>b3</th> <th>d6-d8</th> <th>b3</th> <th>d9</th> <th>b4 min.</th> <th>a2 max.</th> <th>d4</th> <th>d10</th> <th>a ±1°</th> </tr> </thead> <tbody> <tr> <td>M10x1</td> <td>8</td> <td>1</td> <td>15</td> <td>14</td> <td>14</td> <td>G1/8</td> <td>8</td> <td>1</td> <td>15</td> <td>14</td> <td>14</td> <td>M8x1</td> <td>5,5</td> <td>R1/8</td> <td>5,5</td> <td>1/8NPTF</td> <td>11,3</td> <td>7/16-20UNF</td> <td>11,5</td> <td>1,6</td> <td>21</td> <td>15,8</td> <td>12°</td> </tr> <tr> <td>M12x1,5</td> <td>12</td> <td>1,5</td> <td>18</td> <td>17</td> <td>17</td> <td>G1/4</td> <td>12</td> <td>1,5</td> <td>19</td> <td>18</td> <td>18,9</td> <td>M10x1</td> <td>5,5</td> <td>R1/4</td> <td>8,5</td> <td>1/4NPTF</td> <td>16,4</td> <td>1/2-20UNF</td> <td>11,5</td> <td>1,6</td> <td>23</td> <td>16,2</td> <td>12°</td> </tr> <tr> <td>M14x1,5</td> <td>12</td> <td>1,5</td> <td>20</td> <td>19</td> <td>19</td> <td>G3/8</td> <td>12</td> <td>2</td> <td>23</td> <td>22</td> <td>22</td> <td>M12x1,5</td> <td>8,5</td> <td>R3/8</td> <td>8,5</td> <td>3/8NPTF</td> <td>17,4</td> <td>9/16-18UNF</td> <td>12,7</td> <td>1,6</td> <td>25</td> <td>17,7</td> <td>12°</td> </tr> <tr> <td>M16x1,5</td> <td>12</td> <td>1,5</td> <td>22</td> <td>21</td> <td>21,9</td> <td>G1/2</td> <td>14</td> <td>2,5</td> <td>27</td> <td>26</td> <td>26,9</td> <td>M14x1,5</td> <td>8,5</td> <td>R1/2</td> <td>10,5</td> <td>1/2NPTF</td> <td>22,6</td> <td>3/4-16UNF</td> <td>14,3</td> <td>2,4</td> <td>30</td> <td>23</td> <td>15°</td> </tr> <tr> <td>M18x1,5</td> <td>12</td> <td>2</td> <td>24</td> <td>23</td> <td>23,9</td> <td>G3/4</td> <td>16</td> <td>2,5</td> <td>33</td> <td>32</td> <td>32</td> <td>M16x1,5</td> <td>8,5</td> <td>R3/4</td> <td>13</td> <td>3/4NPTF</td> <td>23,1</td> <td>7/8-14UNF</td> <td>16,7</td> <td>2,4</td> <td>34</td> <td>27</td> <td>15°</td> </tr> <tr> <td>M20x1,5</td> <td>14</td> <td>2</td> <td>26</td> <td>25</td> <td>25,9</td> <td>G1</td> <td>18</td> <td>2,5</td> <td>40</td> <td>39</td> <td>39,9</td> <td>M18x1,5</td> <td>8,5</td> <td>R1</td> <td>16</td> <td>1NPTF</td> <td>27,8</td> <td>1.1/16-12UN</td> <td>19</td> <td>2,4</td> <td>41</td> <td>32</td> <td></td> </tr> </tbody> </table>		METR.				BSPP				METR. (T)		BSPT		NPTF		UN(F)					d1	b1	a1	d4	d3	d7	d1	b1	a1	d4	d3	d7	d6-d7	b2	d6-d7/8	b3	d6-d8	b3	d9	b4 min.	a2 max.	d4	d10	a ±1°	M10x1	8	1	15	14	14	G1/8	8	1	15	14	14	M8x1	5,5	R1/8	5,5	1/8NPTF	11,3	7/16-20UNF	11,5	1,6	21	15,8	12°	M12x1,5	12	1,5	18	17	17	G1/4	12	1,5	19	18	18,9	M10x1	5,5	R1/4	8,5	1/4NPTF	16,4	1/2-20UNF	11,5	1,6	23	16,2	12°	M14x1,5	12	1,5	20	19	19	G3/8	12	2	23	22	22	M12x1,5	8,5	R3/8	8,5	3/8NPTF	17,4	9/16-18UNF	12,7	1,6	25	17,7	12°	M16x1,5	12	1,5	22	21	21,9	G1/2	14	2,5	27	26	26,9	M14x1,5	8,5	R1/2	10,5	1/2NPTF	22,6	3/4-16UNF	14,3	2,4	30	23	15°	M18x1,5	12	2	24	23	23,9	G3/4	16	2,5	33	32	32	M16x1,5	8,5	R3/4	13	3/4NPTF	23,1	7/8-14UNF	16,7	2,4	34	27	15°	M20x1,5	14	2	26	25	25,9	G1	18	2,5	40	39	39,9	M18x1,5	8,5	R1	16	1NPTF	27,8	1.1/16-12UN	19	2,4	41	32																									
METR.				BSPP				METR. (T)		BSPT		NPTF		UN(F)																																																																																																																																																																																																						
d1	b1	a1	d4	d3	d7	d1	b1	a1	d4	d3	d7	d6-d7	b2	d6-d7/8	b3	d6-d8	b3	d9	b4 min.	a2 max.	d4	d10	a ±1°																																																																																																																																																																																													
M10x1	8	1	15	14	14	G1/8	8	1	15	14	14	M8x1	5,5	R1/8	5,5	1/8NPTF	11,3	7/16-20UNF	11,5	1,6	21	15,8	12°																																																																																																																																																																																													
M12x1,5	12	1,5	18	17	17	G1/4	12	1,5	19	18	18,9	M10x1	5,5	R1/4	8,5	1/4NPTF	16,4	1/2-20UNF	11,5	1,6	23	16,2	12°																																																																																																																																																																																													
M14x1,5	12	1,5	20	19	19	G3/8	12	2	23	22	22	M12x1,5	8,5	R3/8	8,5	3/8NPTF	17,4	9/16-18UNF	12,7	1,6	25	17,7	12°																																																																																																																																																																																													
M16x1,5	12	1,5	22	21	21,9	G1/2	14	2,5	27	26	26,9	M14x1,5	8,5	R1/2	10,5	1/2NPTF	22,6	3/4-16UNF	14,3	2,4	30	23	15°																																																																																																																																																																																													
M18x1,5	12	2	24	23	23,9	G3/4	16	2,5	33	32	32	M16x1,5	8,5	R3/4	13	3/4NPTF	23,1	7/8-14UNF	16,7	2,4	34	27	15°																																																																																																																																																																																													
M20x1,5	14	2	26	25	25,9	G1	18	2,5	40	39	39,9	M18x1,5	8,5	R1	16	1NPTF	27,8	1.1/16-12UN	19	2,4	41	32																																																																																																																																																																																														
Soort afdichting Type d' étanchéité				Dichtungsart Kind of sealing																																																																																																																																																																																																																
																																																																																																																																																																																																																				
																																																																																																																																																																																																																				
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conische draad filetage conique tapered thread Kegelgewinde		conische draad filetage conique tapered thread Kegelgewinde		O-ring joint torique O-ring O-Ring																																																																																																																																																																																																																

Koppelmogelijkheden Possibilités de connection			Types of connections Anschlußmöglichkeiten				
							
							
24° DIN 3861-A/B	BEL BES	METR. METR.					
24° OR seal DIN 3865-A/B	DKOL DKOS DKOS	METR. METR. METR.				METR. METR. CEL CES	24°DIN 3861-W 24°DIN 3861-W
Multiseal Multiseal	DKML DKMS	METR. METR.					
Globeseal 60° DIN 3863-B ISO 8434-6	DKR DK(O)R	. BSPP BSPP				METR. BSPP	AGR-F 60° DIN 3863-U 60° DIN 3863-U
Flatseal Flatseal		METR. BSPP				METR. BSPP	AGM-F AGR-F Flatseal Flatseal
Threadseal		BSPT				BSPT	AGR-K Threadseal
Threadseal		NPTF				NPTF	AGN Threadseal
30°		NPSM				NPTF	AGN 30°
Flatseal	DRF	BSPP				METR.	Flatseal
OR-seal	ORFS	UN(F)(S)				UN(F)(S)	ORFS OR-seal
37° JIC	DKJ	UN(F)				UN(F)	AGJ 37° JIC
30° JIS 30° Komatsu		BSPP METR.				BSPP METR.	30° JIS 30° Komatsu
OR-seal	SAE J518						FL-3 FL-3 FL-6 FL-6 FL-CAT OR seal OR seal OR seal OR seal
Flatseal Flatseal		METR. BSPP				METR. BSPP	RNM RNR Flatseal Flatseal

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

Schroefdraadafmetingen Dimensions filetage							Thread dimensions Gewindeabmessungen						
 BUITENDRAAD FILETAGE MÂLE MALE THREAD AUSSENGEWINDE							 BINNENDRAAD FILETAGE FEMELLE FEMALE THREAD INNENGEWINDE						
D mm		METR.		BSPP(G) BSPT(R)	NPTF	UN(F)(S)	d mm		METR.		BSPP(G) BSPT(R)	NPTF	UN(F)(S)
9,7							8,6						
10,0	1	M10x1	28	1/8			8,7			28	1/8	1/8	
10,3			27				9,0	1	M10x1	27			
11,2			20			7/16-20UNF	10,0			20			7/16-20UNF
12,0	1,5	M12x1,5					10,5	1,5	M12x1,5				
12,7			20			1/2-20UNF	11,4			19	1/4		
13,2			19	1/4			11,6			20			1/2-20UNF
13,8			18		1/4		11,9			18		1/4	
14,0	1,5	M14x1,5					12,5	1,5	M14x1,5				
14,1			18			9/16-18UNF	13,0			18			9/16-18UNF
15,7			18			5/8-18UNF	14,5	1,5	M16x1,5				
16,0	1,5	M16x1,5					14,7			18			5/8-18UNF
16,7			19	3/8			14,9			19	3/8		
17,3			18		3/8		15,1			18		3/8	
17,4			16			11/16-16UN	15,4			16			11/16-16UN
18,0	1,5	M18x1,5					16,5	1,5	M18x1,5				
19,0			16			3/4-16UNF	17,6			16			3/4-16UNF
20,0	1,5	M20x1,5					18,3	14	M20x1,5			1/2	
20,5			16			13/16-16UN	18,5	1,5	M20x1,5				
20,6			14	1/2			18,6			14	1/2		
21,6			14		1/2		18,6		M22x1,5	16			13/16-16UN
22,0	1,5	M22x1,5					20,5	1,5	M22x1,5				
22,3			14			7/8-14UNF	20,5			14			7/8-14UNF
22,9			14	5/8			20,6			14	5/8		
24,0	1,5	M24x1,5					22,5	1,5	M24x1,5				
25,2			14			1-14UNS	23,1			14			1-14UNS
26,0	1,5	M26x1,5					23,8			14		3/4	
26,4			14	3/4			24,1			14	3/4		
26,9			14		3/4		24,5	1,5	M26x1,5				
26,9			12			1.1/16-12UN	25,0			12			1.1/16-12UN
26,9			14			1.1/16-14UNS	25,0	2	M27x2				1.1/16-14UNS
27,0	2	M27x2					25,3			14			1.1/16-14UNS
30,0	1,5	M30x1,5					27,5			12			1.3/16-12UN
30,0	2	M30x2					28,0	2	M30x2				
30,0			12			1.3/16-12UN	28,5	1,5	M30x1,5				
33,0	2	M33x2					30,2			11,5		1	
33,1			12			1.5/16-12UN	30,3			11	1		
33,2			11	1			31,0	2	M33x2				
33,7			11,5		1		31,3			12			1.5/16-12UN
36,0	2	M36x2					33,8			12			1.7/16-12UN
36,3			12			1.7/16-12UN	34,0	2	M36x2				
38,0	1,5	M38x1,5					36,5	1,5	M38x1,5				
41,1			12			1.5/8-12UN	38,9			11	1.1/4		
42,0	1,5	M42x1,5					38,9			11,5		1.1/4	
42,0	2	M42x2					39,2			12			1.5/8-12UN
42,1			11	1.1/4			40,0	2	M42x2				
42,5			11,5		1.1/4		40,2			12			1.11/16-12UN
42,7			12			1.11/16-12UN	40,5	1,5	M42x1,5				
45,0	1,5	M45x1,5					43,0	2	M45x2				
45,0	2	M45x2					43,5	1,5	M45x1,5				
47,4			12			1.7/8-12UN	44,5			11,5		1.1/2	
47,8			11	1.1/2			44,8			11	1.1/2		
48,0	2	M48x2					45,6			12			1.7/8-12UN
48,4			11,5		1.1/2		46,0	2	M48x2				
50,6			12			2-12UN	48,1			12			2-12UN
52,0	1,5	M52x1,5					50,5	1,5	M52x1,5				
52,0	2	M52x2					50,5	2	M52x2				
53,7			11	1.3/4			50,8			11	1.3/4		
59,7			11	2			56,4			11	2		
60,6			11,5		2		57,2			11,5		2	
63,4			12			2.1/2-12UN	61,5			12			2.1/2-12UN
65	2	M65x2					62,9	2	M65x2				



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

Aanbevolen aanhaalmomenten
Couple recommandé






Recommended installation torque
Drehmomenten Empfehlung


METR.			
			
	Lb.ft		N.m.
M12x1,5	15		15
M14x1,5	19		25
M16x1,5	33		45
M18x1,5	37		50
M20x1,5	52		70
M22x1,5	55		75
M24x1,5	74		100
M26x1,5	81		110
M30x2	96		160
M36x2	162		220
M42x2	170		230
M45x2	220		300
M52x2	367		500

BSPP			
			
	Lb.ft		N.m.
G1/8	15		20
G1/4	19		25
G3/8	36		49
G1/2	44		60
G3/4	87		118
G1	100		137
G1.1/4	123		167
G1.1/2	151		206

SAE J514 37° Flare (JIC)				
				
	Lb.ft		N.m	
	Min.	Max.	Min.	Max.
7/16-20UNF	11	12	15	16
1/2-20UNF	14	15	19	21
9/16-18UNF	18	20	24	28
3/4-16UNF	36	39	49	53
7/8-14UNF	57	63	77	85
1.1/16-12UN	79	88	107	119
1.3/16-12UN	94	103	127	140
1.5/16-12UN	108	113	147	154
1.5/8-12UN	127	133	172	181
1.7/8-12UN	158	167	215	226
2.1/2-12UN	245	258	332	350

SAE J1453 ORFS				
				
	Lb.ft		N.m	
	Min.	Max.	Min.	Max.
9/16-18UNF	10	12	14	16
11/16-16UNF	18	20	24	27
13/16-16UNF	32	35	43	47
1-14UNS	46	50	60	68
1.3/16-12UN	65	70	90	95
1.7/16-12UN	92	100	125	135
1.11/16-12UN	125	140	170	190
2-12UN	150	165	200	225

SAE J518 3000 PSI (code 61)				
SAE				
	Lb.ft		N.m	
	Min.	Max.	Min.	Max.
1/2"	15	19	20	25
3/4"	21	29	28	40
1"	27	35	37	48
1.1/4"	35	46	48	62
1.1/2"	46	58	62	79
2"	54	66	73	90
2.1/2"	79	91	107	124
3"	137	149	186	203

SAE J518 6000 PSI (code 62)				
SAE				
	Lb.ft		N.m	
	Min.	Max.	Min.	Max.
1/2"	15	19	20	25
3/4"	25	33	34	45
1"	42	50	56	68
1.1/4"	62	75	85	102
1.1/2"	116	133	158	181
2"	199	216	271	294

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Index Nederlands



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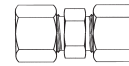


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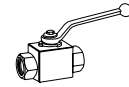
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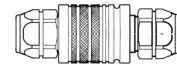
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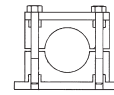
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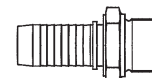
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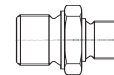
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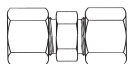
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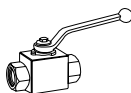
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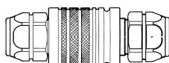
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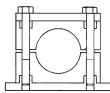
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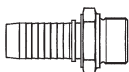
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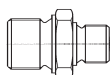
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