

SCREW TO CONNECT COUPLINGS

VOSWINKEL HS SERIES SCREW TO CONNECT POPPET COUPLINGS

APPLICATIONS

Heavy duty service conditions in construction plant, machinery and vehicles. High pressure pulse applications and agricultural machinery.

ADVANTAGES

- ★ Screw connection mechanism avoids use of locking balls and so eliminates the risk of Brinelling (the problem of locking ball indentation in the nose of the probe).
- ★ Can be connected with up to 50 bar pressure in each hydraulic hose line.
- ★ Self locking connection mechanism prevents accidental disconnection caused by vibration.
- ★ Modular construction allows numerous thread / connection options as standard.

MATERIALS

Hardened carbon steel body, zinc plated, nitrile seals.

CONNECTION / DISCONNECTION UNDER PRESSURE

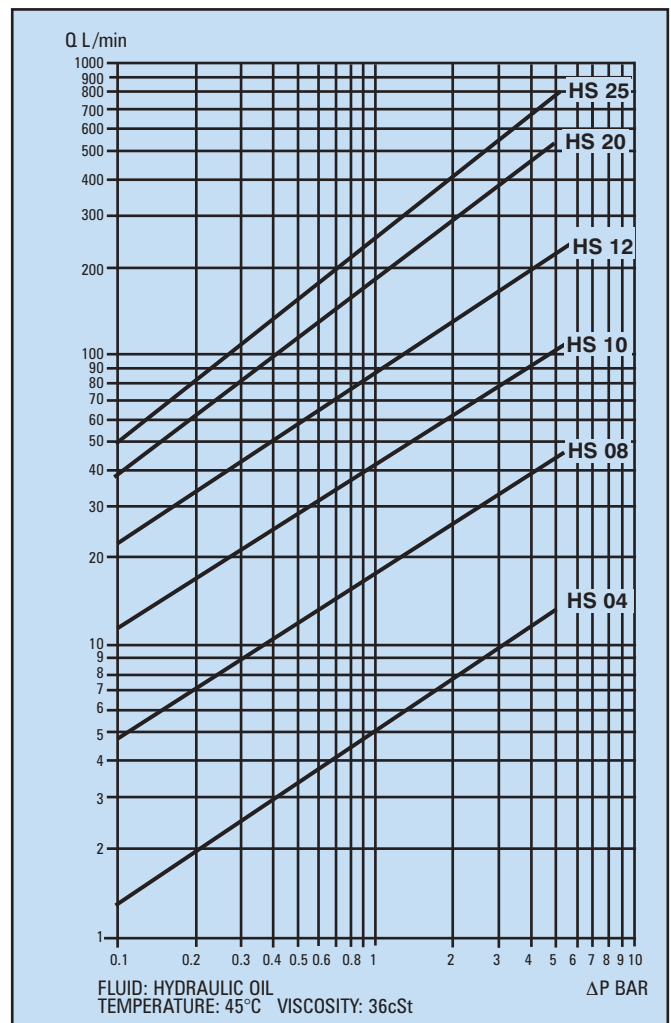
Connection with up to 50 bar residual pressure in the line is possible. Disconnection of any hydraulic coupling whilst under full system pressure can be very dangerous and should not be attempted.

OPERATING TEMPERATURES

See table on page 5.



PRESSURE DROP CHARACTERISTICS



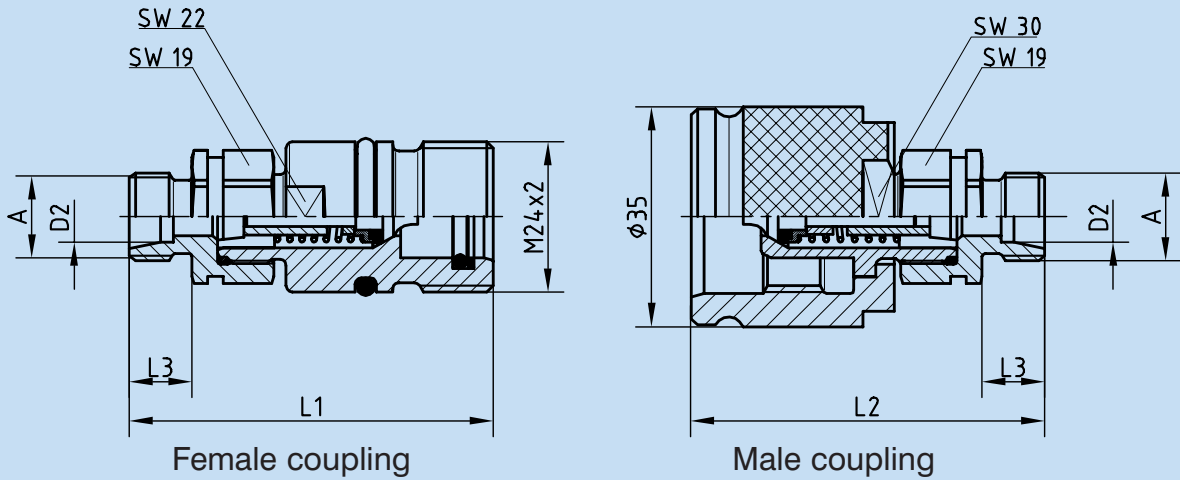
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VOSWINKEL

HS SERIES TYPE HS 04

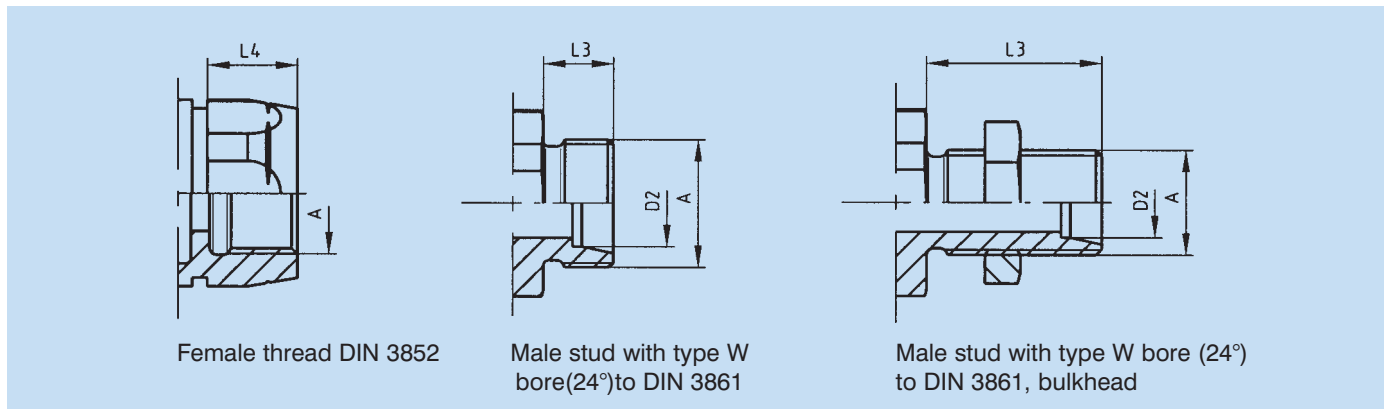
SCREW TO CONNECT, POPPET COUPLINGS



Connector Type	Port A	Tube Ø D2					Female		Male	
			L1	L2	L3	L4	Part No.	Weight	Part No.	Weight
Female thread DIN3852	G 1/4"		60	58		13	HS04-1-IGF04	120	HS04-2-IGF04	182
	NPTF 1/4-18		60	58		13	HS04-1-INF04	120	HS04-2-INF04	190
Male stud type W bore (24°) DIN 3861	M14 x 1.5	8L	58	45	10		HS04-1-L0814	112	HS04-2-L0814	174
Male stud type W bore (24°) DIN 3861 Bulkhead	M14 x 1.5	8L	73	60	25		HS04-1-N0814	130	HS04-2-N0814	190

Dimensions in mm. Weight in grams

CONNECTOR TYPES



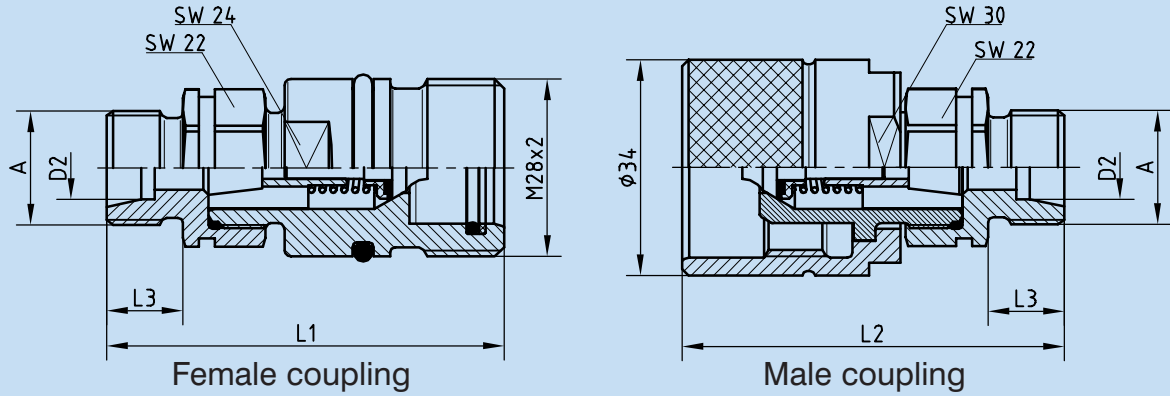
PRESSURE RATINGS

Max working pressure = 450 bar.

Burst pressures: Connected = 1800 bar. Female = 1400 bar. Male = 1400 bar

SCREW TO CONNECT COUPLINGS

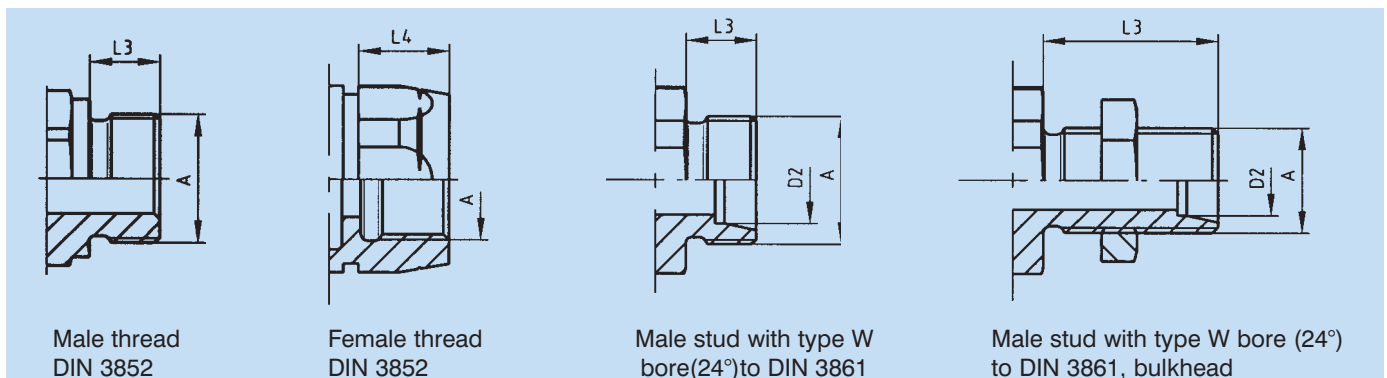
VOSWINKEL HS SERIES TYPE HS 08 SCREW TO CONNECT, POPPET COUPLINGS



Connector Type	Tube						Female		Male	
	Port A	Ø D2	L1	L2	L3	L4	Part No.	Weight	Part No.	Weight
Male thread DIN 3852	G 3/8"		62	62	12		HS08-1-AGF06	154	HS08-2-AGF06	170
	UNF 3/4" - 16		67	53	17		HS08-1-AUF08*	160	HS08-2-AUF08*	175
Female thread DIN 3852	G 1/4"		64	61		13	HS08-1-IGF04	168	HS08-2-IGF04	178
	G 3/8"		64	61		13	HS08-1-IGF06	160	HS08-2-IGF06	170
	M16 x 1.5		64	61		13	HS08-1-IMF16	161	HS08-2-IMF16	174
	NPTF 3/8 -18		64	61		13	HS08-1-INF06	161	HS08-2-INF06	174
Male stud type W bore (24°) DIN 3861	M14 x 1.5	8L	61	46	10		HS08-1-L0814	144	HS08-2-L0814	158
	M16 x 1.5	10L	62	47	11		HS08-1-L1016	146	HS08-2-L1016	158
	M18 x 1.5	12L	62	47	11		HS08-1-L1218	146	HS08-2-L1218	170
	M16 x 1.5	8S	63	48	12		HS08-1-S0816	151	HS08-2-S0816	160
	M18 x 1.5	10S	63	48	12		HS08-1-S1018	152	HS08-2-S1018	161
Male stud type W bore (24°) DIN 3861 Bulkhead	M20 x 1.5	12S	63	48	12		HS08-1-S1220	154	HS08-2-S1220	162
	M14 x 1.5	8L	76	61	25		HS08-1-N0814	165	HS08-2-N0814	176
	M16 x 1.5	10L	77	62	26		HS08-1-N1016	170	HS08-2-N1016	170
	M22 x 1.5	15L	78	63	27		HS08-1-N1522*	316	HS08-2-N1522*	175
	M16 x 1.5	8S	78	63	27		HS08-1-T0816*	160	HS08-2-T0816*	170
	M18 x 1.5	10S	78	63	27		HS08-1-T1018*	175	HS08-2-T1018*	175
	M20 x 1.5	12S	78	63	27		HS08-1-T1220*	310	HS08-2-T1220*	171

Dimensions in mm. Weight in grams. *Available on request

CONNECTOR TYPES



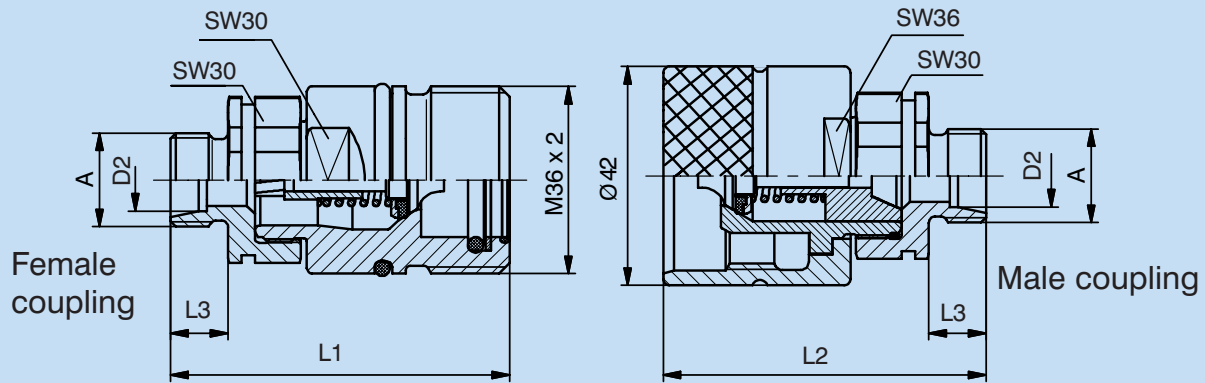
PRESSURE RATINGS

Max working pressure = 450 bar.

Burst pressures: Connected = 1600 bar. Female = 1750 bar. Male = 1550 bar

VOSWINKEL HS SERIES TYPE HS 10

SCREW TO CONNECT, POPPET COUPLINGS



Connector Type	Tube						Female		Male	
	Port A	Ø D2	L1	L2	L3	L4	Part No.	Weight	Part No.	Weight
Male thread DIN 3852 (See page 26)	G 3/8"		70	68	12		HS10-1-AGF06	281	HS10-2-AGF06	252
	G 1/2"		70	68	12		HS10-1-AGF08	295	HS10-2-AGF08	256
	M22 x 1.5		70	68	12		HS10-1-AMF22	288	HS10-2-AMF22	262
Female thread DIN 3852 (See page 26)	G 3/8"		68	66		15	HS10-1-IGF06	308	HS10-2-IGF06	286
	G 1/2"		68	66		15	HS10-1-IGF08	292	HS10-2-IGF08	270
	M18 x 1.5		68	66		15	HS10-1-IMF18	302	HS10-2-IMF18	282
	M22 x 1.5		68	66		15	HS10-1-IMF22	292	HS10-2-IMF22	266
	NPTF3/8 -18		68	66		15	HS10-1-INF08	296	HS10-2-INF08	274
	UNF 7/8		73	59		18	HS10-1-IUF10*	292	HS10-2-IUF10*	270
Male stud type W bore (24°) DIN 3861 (See page 26)	M14 x 1.5	8L	64	50	10		HS10-1-L0814	264	HS10-2-L0814	254
	M16 x 1.5	10L	65	51	11		HS10-1-L1016	269	HS10-2-L1016	242
	M18 x 1.5	12L	65	51	11		HS10-1-L1218	266	HS10-2-L1218	244
	M22 x 1.5	15L	66	52	12		HS10-1-L1522	274	HS10-2-L1522	250
	M26 x 1.5	18L	66	52	12		HS10-1-L1826	279	HS10-2-L1826	252
	M18 x 1.5	10S	66	52	12		HS10-1-S1018	274	HS10-2-S1018	250
	M20 x 1.5	12S	66	52	12		HS10-1-S1220	276	HS10-2-S1220	249
	M22 x 1.5	14S	68	54	14		HS10-1-S1422	282	HS10-2-S1422	258
	M24 x 1.5	16S	68	54	14		HS10-1-S1624	284	HS10-2-S1624	257
	M30 x 2.0	20S	70	56	16		HS10-1-S2030*	284	HS10-2-S2030*	257
Male stud type W bore (24°) DIN 3861 Bulkhead (See page 26)	M14 x 1.5	8L	80	66	26		HS10-1-N0814	286	HS10-2-N0814	262
	M16 x 1.5	10L	80	66	26		HS10-1-N1016	294	HS10-2-N1016	268
	M18 x 1.5	12L	84	70	30		HS10-1-N1218	300	HS10-2-N1218	278
	M22 x 1.5	15L	81	67	27		HS10-1-N1522	318	HS10-2-N1522	292
	M26 x 1.5	18L	81	67	27		HS10-1-N1826	350	HS10-2-N1826	326
	M18 x 1.5	10S	80	66	26		HS10-1-T1018	307	HS10-2-T1018	280
	M20 x 1.5	12S	81	67	27		HS10-1-T1220	312	HS10-2-T1220	288
	M22 x 1.5	14S	83	69	29		HS10-1-T1422	328	HS10-2-T1422	304
	M24 x 1.5	16S	83	69	29		HS10-1-T1624	342	HS10-2-T1624	316

Dimensions in mm. Weight in grams. *Available on request

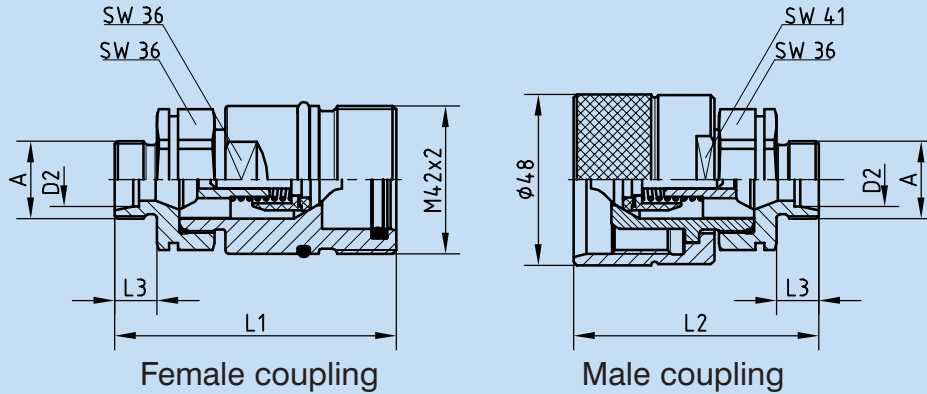
PRESSURE RATINGS

Max working pressure = 450 bar.

Burst pressures: Connected = 1600 bar. Female = 1750 bar. Male = 1550 bar

SCREW TO CONNECT COUPLINGS

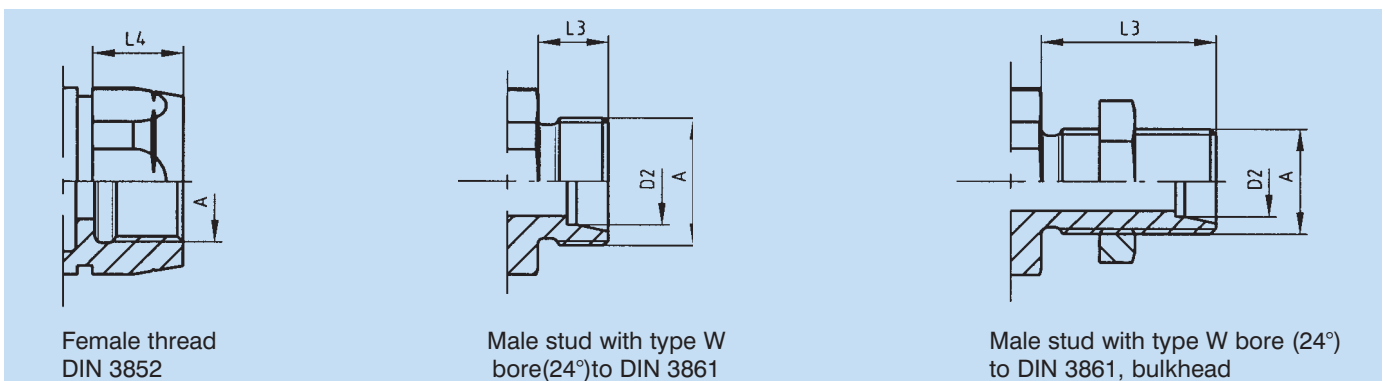
VOSWINKEL HS SERIES TYPE HS 12 SCREW TO CONNECT, POPPET COUPLINGS



Connector Type	Tube						Female		Male	
	Port A	Ø D2	L1	L2	L3	L4	Part No.	Weight	Part No.	Weight
Female thread DIN 3852	G 1/2"		85	76		19	HS12-1-IGF08	526	HS12-2-IGF08	490
	G 3/4"		85	76		19	HS12-1-IGF12	526	HS12-2-IGF12	490
	M22 x 1.5		85	76		19	HS12-1-IMF22	550	HS12-2-IMF22	490
	NPTF3/8 -18		85	76		19	HS12-1-INF08	550	HS12-2-INF08	476
Male stud type W bore (24°) DIN 3861	M18 x 1.5	12L	79	58	11		HS12-1-L1218	460	HS12-2-L1218	421
	M22 x 1.5	15L	80	59	12		HS12-1-L1522	466	HS12-2-L1522	396
	M26 x 1.5	18L	80	59	12		HS12-1-L1826	470	HS12-2-L1826	400
	M30 x 2.0	22L	82	61	14		HS12-1-L2230	480	HS12-2-L2230	485
	M24 x 1.5	16S	82	61	14		HS12-1-S1624	474	HS12-2-S1624	402
Male stud type W bore (24°) DIN 3861 Bulkhead	M30 x 2.0	20S	84	63	16		HS12-1-S2030	492	HS12-2-S2030	416
	M18 x 1.5	12L	94	73	26		HS12-1-N1218	488	HS12-2-N1218	422
	M22 x 1.5	15L	95	74	27		HS12-1-N1522	510	HS12-2-N1522	438
	M26 x 1.5	18L	95	74	27		HS12-1-N1826	542	HS12-2-N1826	475
	M30 x 2.0	22L	104	83	36		HS12-1-N2230	594	HS12-2-N2230	524
	M24 x 1.5	16S	97	76	29		HS12-1-T1624	534	HS12-2-T1624	462
	M30 x 2.0	20S	104	83	36		HS12-1-T2030	602	HS12-2-T2030	529

Dimensions in mm. Weight in grams.

CONNECTOR TYPES



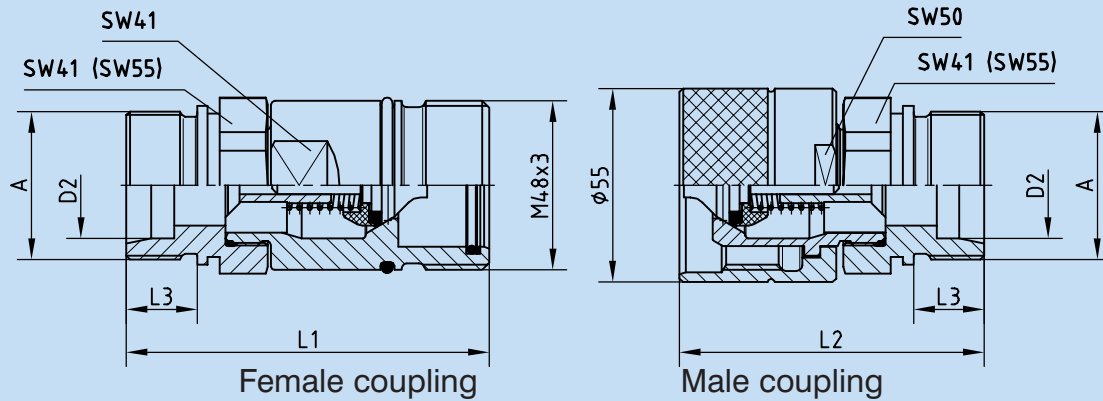
PRESSURE RATINGS

Max working pressure = 400 bar.

Burst pressures: Connected = 1500 bar. Female = 1600 bar. Male = 1200 bar

VOSWINKEL HS SERIES TYPE HS 20

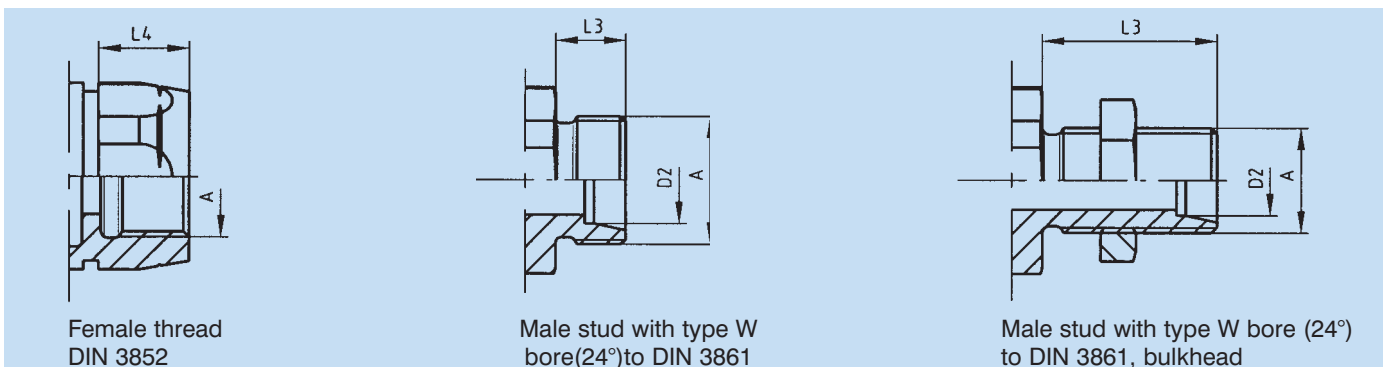
SCREW TO CONNECT, POPPET COUPLINGS



Connector Type	Tube						Female		Male	
	Port A	Ø D2	L1	L2	L3	L4	Part No.	Weight	Part No.	Weight
Female thread DIN 3852	G 3/4"		99	82		19	HS20-1-IGF12	829	HS20-2-IGF12	622
	G 1"		99	82		19	HS20-1-IGF16	780	HS20-2-IGF16	601
	NPTF1"-11½"		99	82		19	HS20-1-INF16	780	HS20-2-INF16	601
Male stud type W bore (24°) DIN 3861	M26 x 1.5	18L	95	69	12		HS20-1-L1826	763	HS20-2-L1826	556
	M30 x 2.0	22L	97	71	14		HS20-1-L2230	761	HS20-2-L2230	552
	M36 x 2.0	28L	97	71	14		HS20-1-L2836	770	HS20-2-L2836	552
	M45 x 2.0	35L	99	73	16		HS20-1-L3545	845	HS20-2-L3545	659
	M30 x 2.0	20S	99	73	16		HS20-1-S2030	780	HS20-2-S2030	566
	M36 x 2.0	25S	101	75	18		HS20-1-S2536	795	HS20-2-S2536	586
	M42 x 2.0	30S	103	77	20		HS20-1-S3042	871	HS20-2-S3042	650
Male stud type W bore (24°) DIN 3861 Bulkhead	M52 x 2.0	38S	105	79	22		HS20-1-S3852	1080	HS20-2-S3852	901
	M22 x 1.5	15L	110	84	27		HS20-1-N1522	820	HS20-2-N1522	620
	M26 x 1.5	18L	115	89	32		HS20-1-N1826	846	HS20-2-N1826	638
	M30 x 2.0	22L	117	91	34		HS20-1-N2230	861	HS20-2-N2230	650
	M36 x 2.0	28L	117	91	34		HS20-1-N2836	899	HS20-2-N2836	690
	M30 x 2.0	20S	121	95	38		HS20-1-T2030	940	HS20-2-T2030	706
	M36 x 2.0	25S	121	95	38		HS20-1-T2536	947	HS20-2-T2536	740
	M42 x 2.0	30S	123	97	40		HS20-1-T3042	1040	HS20-2-T3042	850
	M52 x 2.0	38S	123	97	40		HS20-1-T3852	1404	HS20-2-T3852	850

CONNECTOR TYPES

Dimensions in mm. Weight in grams



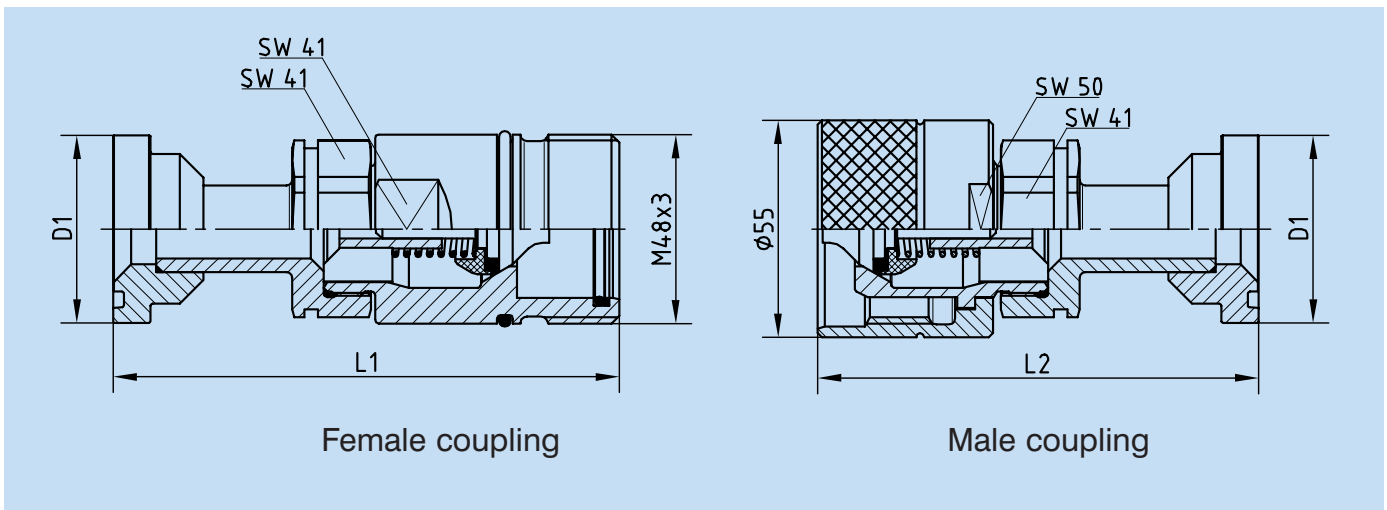
PRESSURE RATINGS

Max working pressure = 300 bar.

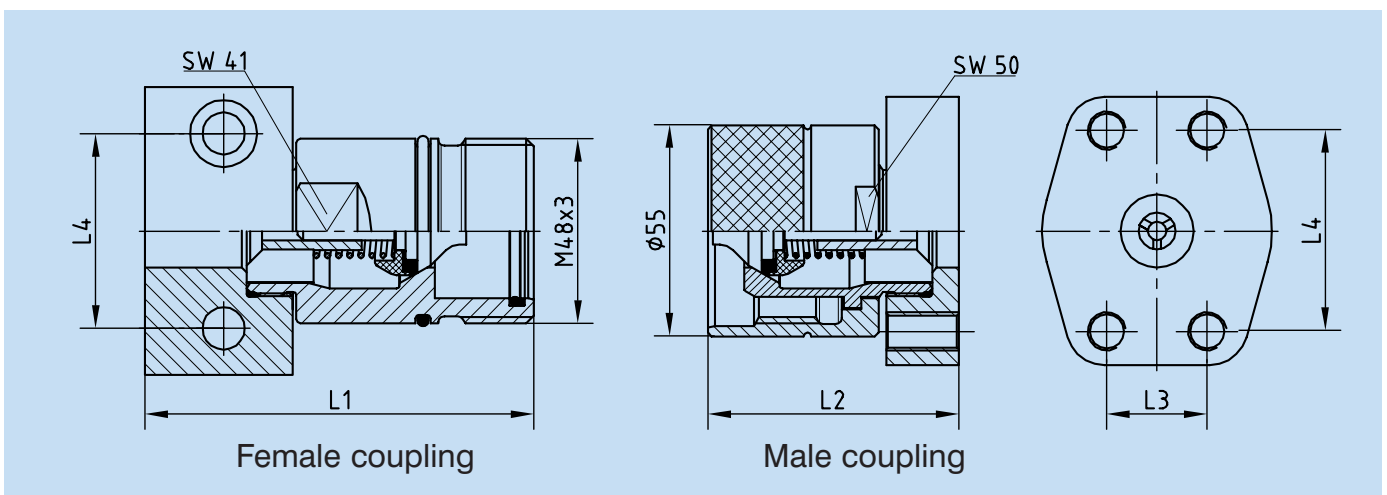
Burst pressures: Connected = 1180 bar. Female = 1500 bar. Male = 1100 bar

SCREW TO CONNECT COUPLINGS

VOSWINKEL HS SERIES TYPE HS 20 FLANGE SCREW TO CONNECT, POPPET COUPLINGS



Flange 6000 psi	ØD1	L1	L2	L3	L4	Female		Male	
						Part No.	Weight	Part No.	Weight
3/4"	41.3	127	110			HS20-1-AFS12	820	HS20-2-AFS12	715
1"	47.6	129	112			HS20-1-AFS16	889	HS20-2-AFS16	784



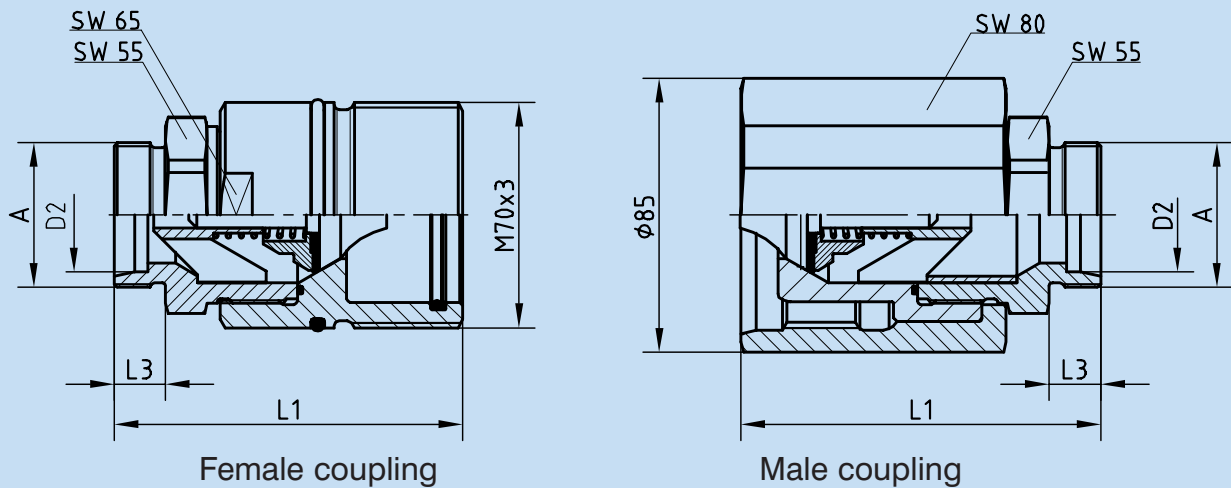
Flange 6000 psi	L1	L2	L3	L4	Female		Male	
					Part No.	Weight	Part No.	Weight
3/4"	103	64	23.8	50.8	HS20-1-X0010	1610	HS20-2-X0011	835

Dimensions in mm. Weight in grams

PRESSURE RATINGS Max working pressure = 300 bar.
Burst pressures: Connected = 1180 bar. Female = 1500 bar. Male = 1100 bar

VOSWINKEL HS SERIES TYPE HS 25

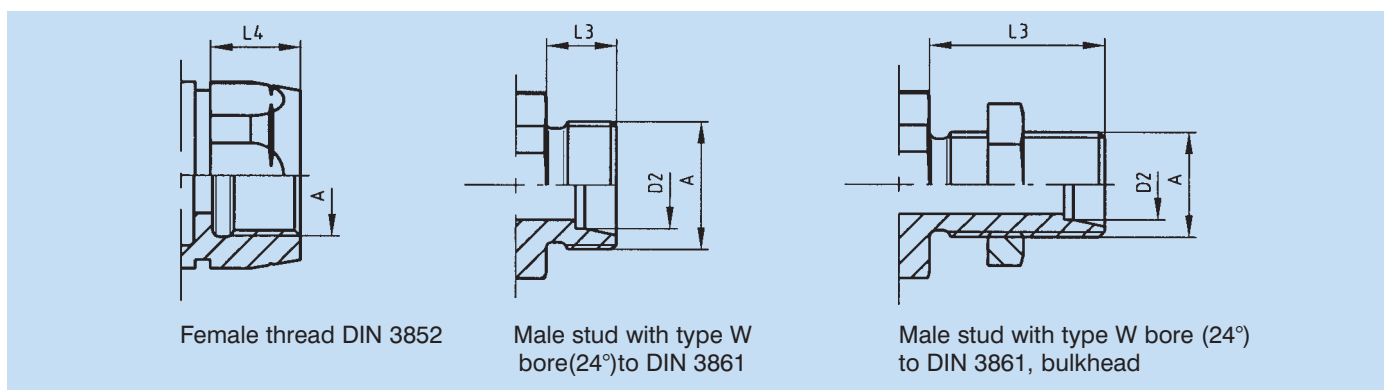
SCREW TO CONNECT, POPPET COUPLINGS



Connector Type	Port A	Tube				Female		Male		
		Ø D2	L1	L2	L3	L4	Part No.	Weight	Part No.	Weight
Female thread DIN3852	G 1¼"		126	131		29	HS25-1-IGF20	1630	HS25-2-IGF20	2329
	G 1½"		128	133		31	HS25-1-IGF24	1715	HS25-2-IGF24	2260
Male stud type W bore (24°) DIN 3861	M45 x 2.0	35L	105	112	16		HS25-1-L3545*	1560	HS25-2-L3545*	2090
	M52 x 2.0	42L	105	112	16		HS25-1-L4252*	1620	HS25-2-L4252*	2150
	M42 x 2.0	30S	109	116	20		HS25-1-S3042	1572	HS25-2-S3042	2092
	M52 x 2.0	38S	111	118	22		HS25-1-S3852	1624	HS25-2-S3852	2153
Male stud type W bore (24°) DIN 3861 Bulkhead	M45 x 2.0	35L	125	132	36		HS25-1-N3545*	1730	HS25-2-N3545*	2340
	M52 x 2.0	42L	129	132	36		HS25-1-N4252*	1725	HS25-2-N4252*	2335
	M42 x 2.0	30S	129	136	40		HS25-1-T3042	1757	HS25-2-T3042	2350
	M52 x 2.0	38S	129	136	40		HS25-1-T3852	1730	HS25-2-T3852	2398

Dimensions in mm. Weight in grams. *Available on request

CONNECTOR TYPES



PRESSURE RATINGS

Max working pressure = 300 bar.

Burst pressures: Connected = 1800 bar. Female = 1600 bar. Male = 1200 bar