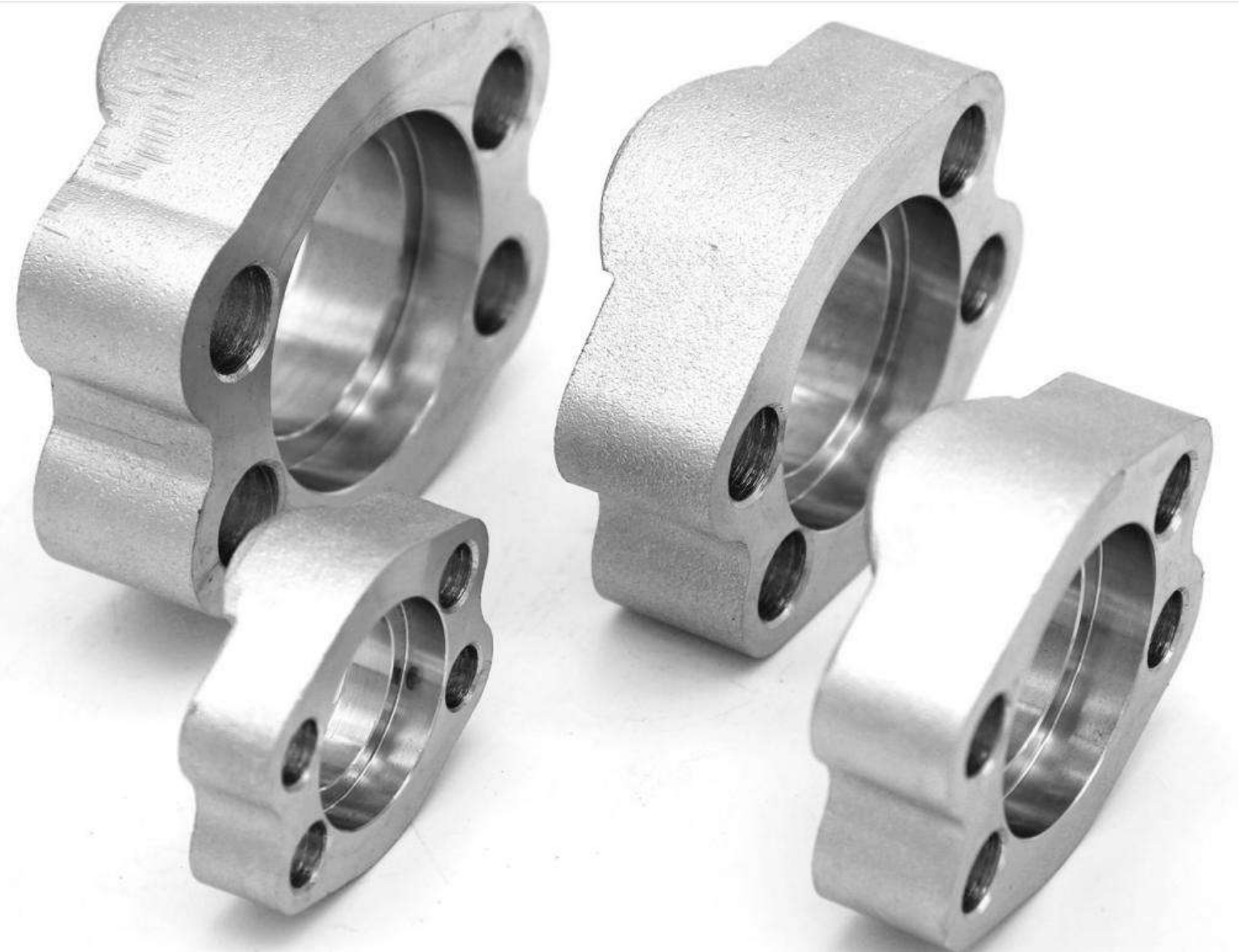


SAE Flange Clamps ISO 6162-2, 6000psi working pressure, SAE J518 code 62 flange series,FS-W series

SAE Flange Clamps Code 62 FS-W series



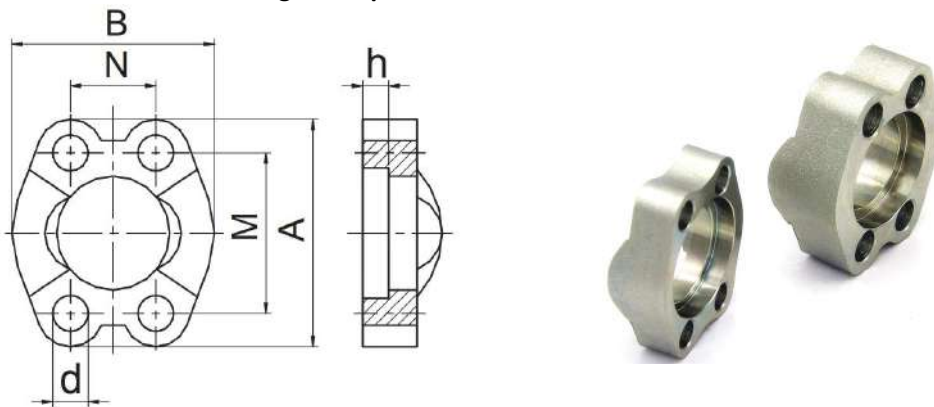
YUYAO SWINTOOL CO.,LTD

www.swintool.com

SAE J518 code 62 Flange Clamps FS series

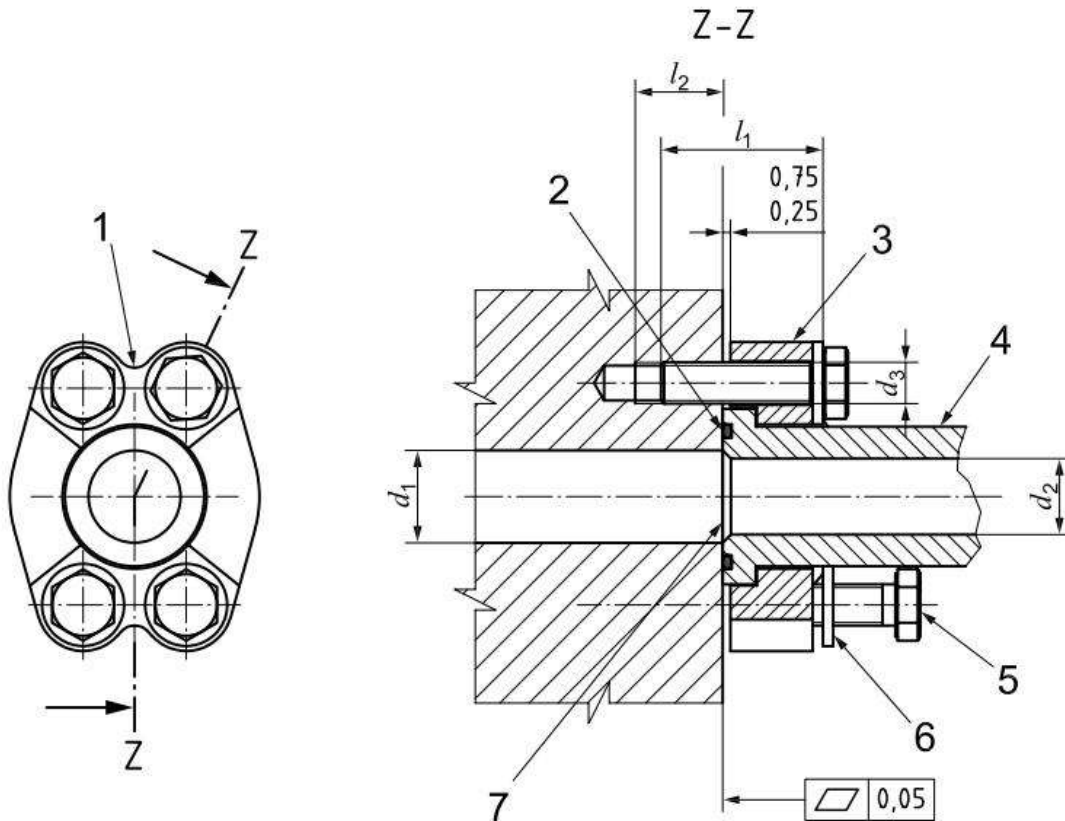
Instruction for code 62 Flange Clamps one piece type:

- Working pressure** of SAE code 62 series flange clamps is 42 MPa (420 bar).
- SAE Flange clamps dimensions** is according to ISO 6162-2:2012. ISO Nominal Size: DN 13; DN 19; DN 25; DN 32; DN 38; DN 51; DN 64; DN 76; DN 89; DN 102; DN 127; Inch size: 1/2"; 3/4"; 1"; 1 1/4"; 1 1/2"; 2"; 2 1/2"; 3".
- Material of SAE one-piece flange clamp** is made of carbon steel C45, Stainless steel 304, 316 or 316L.
- The external surface Corrosion protection** of all carbon steel flange clamps, shall be protected with an appropriate coating to pass a minimum 72-h salt spray test in accordance with ISO 9227.
- Test requirement for pressure/temperature:** Flange type connections conforming to this part of ISO 6162 shall be subjected to the burst and cyclic endurance tests specified in ISO 19879 to verify that they meet the specified pressure/temperature requirements.
- Designation of one piece flange clamps connections**
 One-piece flange clamp of size DN 25: Clamp ISO 6162-2, FC×25
 Swintool company use FS-16(dash size)W: SAE 6000 psi flange clamps size 1" inch.
 Parker company use FUS6x(2,3,4,5,6,8, etc) and FCC (dash size FCCT2)
 Stauff company use BM-60x(1,2,3,4,5,6,7,8,9,10,11)
- Dimensions of SAE Flange Clamp Code 62**



PART NO.	FLANGE SIZE	BOLT	DIMENSIONS					
			A	B	M	d	N	h
FS-08W	1/2"	M8x30	56.3	47	40.5	9	18.2	7.2
FS-12W	3/4"	M10x35	71.4	60	50.8	11	23.8	8.2
FS-16W	1"	M12x45	80.9	70	57.1	13	27.8	9
FS-20W	1.1/4"	M14x30	95.2	77	66.7	15	31.8	9.8
FS-24W	1.1/2"	M16x55	112.7	95	79.5	17	36.5	12
FS-32W	2"	M20x70	133.3	114	96.8	21	44.5	12

Assembled flange connection with one-piece flange clamp (FC or FCM)



Dimensions, torques and maximum working pressures for one-piece flange assemblies for use with metric screws

Dimensions in millimetres, unless noted

Nominal size DN ^a	d_1 +0 -1,5	d_2 max.	O-ring size code ^b	Flat washer ^c (recommended)	Type 1 – metric screws of property class 10.9			Screw torque ^f N·m +10 % -0	Maximum working pressure MPa (bar)	Minimum burst pressure MPa (bar)
					d_3 Screw thread ^d	l_1 Screw length ^e	l_2 Min. full thread			
13	13,0	13,0	210	M8	M8	30	16	32	42 (420)	168 (1 680)
19	19,2	19,2	214	M10	M10	35	18	70	42 (420)	168 (1 680)
25	25,6	25,6	219	M12 ^c	M12	45	23	130	42 (420)	168 (1 680)
32	32,0	32,0	222	M12	M12	45	23	130	42 (420)	168 (1 680)
38	38,2	38,2	225	M16	M16	55	27	295	42 (420)	168 (1 680)
51	51,0	51,0	228	M20	M20	70	35	550	42 (420)	168 (1 680)
64	63,0	63	232	M24	M24	80	50	550	42 (420)	168 (1 680)
76	76,0	76	237	M30	M30	90	60	650	42 (420)	168 (1 680)

WARNING — It is important that all screws be lightly torqued before applying the final recommended torque values to avoid breaking the split flange clamps or one-piece flange clamps during installation (see Annex A for assembly guidelines).

^a See definition in ISO 5598.

^b O-ring size code in accordance with ISO 3601-1; see Annex B for reference dimensions.

^c ANSI/ASME B18.22.1 Type B narrow washers of HV 300 quality material sized for the corresponding inch screw specified in Table 2 may be substituted for all but the DN 25 size, where a 7/16 washer in accordance with ANSI/ASME B18.22.1 might cause interference.

^d Coarse pitch thread in accordance with ISO 261 and ISO 724.

^e Screw lengths are calculated for steel; use of other materials can require different screw lengths.

^f These torque values are only a guide when using lubricated screws, calculated with a coefficient of friction of 0,17. Net tightening torque depends on many factors, including lubrication, coating and surface finish.