

SAE Split Flange Halves Clamps

Code 61 FL series



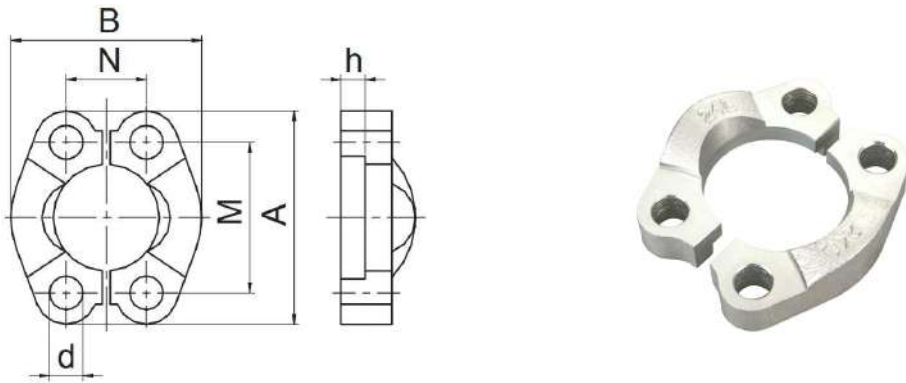
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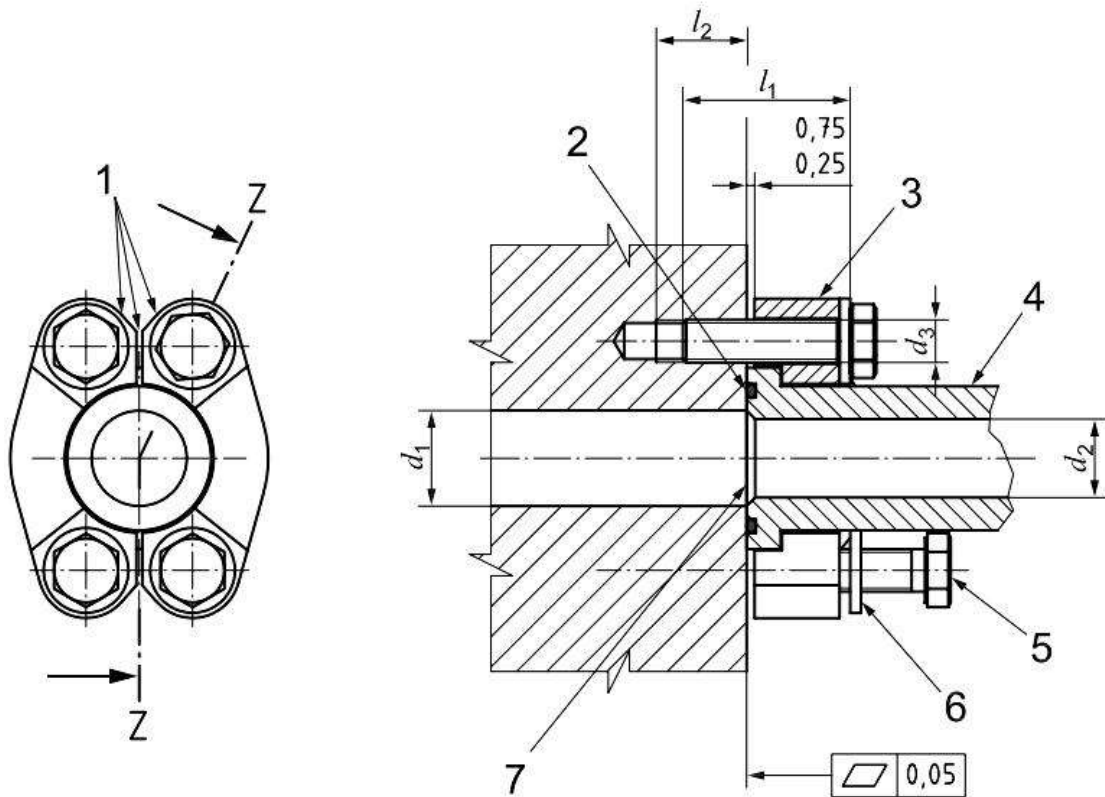
Instruction for code 61 Flange Clamps one piece type:

- Working pressure** of SAE code 61 series flange clamps is 3000 PSI, 3,5 MPa (35 bar) to 35 MPa (350 bar).
- SAE Flange clamps dimensions** is according to ISO 6162-1:2012. 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.
- 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.
It shall be suitable for use at the working pressures given in Tables 2 when used at temperatures between -40 ° C and +120 ° C. Flange connections conforming to this part of ISO 6162 shall not be assembled at temperatures lower than -20 ° C.
- Designation of one piece flange clamps connections**
One-piece flange clamp of size DN 25: Clamp ISO 6162-1, FCS × 25
- Dimension of SAE split Flange Clamp code 61**



PART NO.	FLANGE SIZE	BOLT	DIMENSIONS				
			A	B	M	d	N
FL-08	1/2"	M8x25	54	46	38.1	9	17.5
FL-12	3/4"	M10x30	65.1	52	47.6	11	22.2
FL-16	1"	M10x30	69.8	59	52.4	11	26.2
FL-20	1.1/4"	M10x30	79.4	73	58.7	11	30.2
FL-24	1.1/2"	M12x35	93.7	83	69.8	13.5	35.7
FL-32	2"	M12x35	101.6	97	77.8	13.5	42.9
FL-40	2.1/4"	M12x40	114	108	89	13.5	50.8
FL-48	3"	M16x50	135	130.6	106.4	16.7	62

Dimensions, torques and maximum working pressures for Split flange assemblies for use with inch screws



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	25	16	32	35 (350)	140 (1 400)
19	19,2	19,2	214	M10	M10	30	18	70	35 (350)	140 (1 400)
25	25,6	25,6	219	M10	M10	30	18	70	32 (320)	128 (1 280)
32	32,0	32,0	222	M10 ^e	M10	30	18	70	28 (280)	112 (1 120)
38	38,2	38,2	225	M12	M12	35	23	130	21 (210)	84 (840)
51	51,0	51,0	228	M12	M12	35	23	130	21 (210)	84 (840)
64	63,5	63,5	232	M12	M12	40	23	130	17,5 (175)	70 (700)
76	76,2	76,2	237	M16	M16	50	30	295	16 (160)	64 (640)
89	89,0	89,0	241	M16	M16	50	30	295	3,5 (35)	14 (140)
102	101,6	101,6	245	M16	M16	50	30	295	3,5 (35)	14 (140)
127	127,0	127,0	253	M16	M16	55	30	295	3,5 (35)	14 (140)

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 32 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.