

Working Pressure Ratings - BSP

Size		ISO 1179-2 BSPP Sealing Type E BPM ES <i>Encapsulated seal</i>		ISO 1179-4 BSPP Non Adjustable Stud BPM <i>Dowty seal or OR & RR</i>		ISO 1179-4 BSPP Adjustable Stud BPP <i>OR & RR</i>		ISO 8434-6 BSP 60° Seat Sealing BPM / BSF <i>Sealing on 60° seat</i>		(No standard)** BSP Taper (BSPT) BTM / BTF <i>Sealing on tapered threads</i>	
		PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
02	1/8	9000	630	4630	320	2940	200	5145	350	5000	350
03	3/16										
04	1/4	9000	630	4630	320	2940	200	5145	350	5000	350
05	5/16										
06	3/8	9000	630	4630	320	2940	200	5145	350	4000	275
08	1/2	5800	400	3675	250	2940	200	4630	320	3000	200
10	5/8	5800	400					4630	320	3000	200
12	3/4	5800	400	3675	250	2940	200	3675	250	2500	175
14	7/8										
16	1-0	5800	400	3675	250	2940	200	2940	200	2000	135
20	1 1/4	3625	250	2352	160	2352	160	2352	160	1150	80
24	1 1/2	3625	250	2352	160	2352	160	1837	125	1000	70
32	2-0			*2352	*160	*2352	*160	1176	80	1000	70
*2-0" is not included in ISO standard. BS5200 is referenced. **No pressure standard applicable to BSPT threads. Working pressures established by testing with static pressures.											

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Working pressure ratings are capable of 4:1 burst.



Working Pressure Ratings - UN and NPT

		SAE J514 Rigid Fittings UN 'O' Ring JIC/Unions/Bulkheads Plugs etc JCS/JCN		SAE J514 Adjustable Fittings UN 'O' Ring JIC Swivels		SAE J514 Rigid Pipe Threads (NPT) Male/Fixed Female NTM/NTF		SAE J514 Adjustable NPSM and Swivel Female NSF		ISO 8434-3 ORFS Flat-Face Male ORM <i>Flat-face with OR</i>		SAE J1453 Adjustable ORFS Female ORF <i>Flat-face</i>	
Size		PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
02	1/8	5000	350	5000	350	5000	350	5000	350				
03	3/16	5000	350	5000	350								
04	1/4	5000	350	4500	310	5000	350	5000	350	9000	630	6000	420
05	5/16	5000	350	4000	275								
06	3/8	5000	350	4000	275	4000	275	4000	275	9000	630	6000	420
08	1/2	4500	310	4000	275	3000	200	3500	240	9000	630	6000	420
10	5/8	3500	240	3000	200	3000	200			9000	630	6000	420
12	3/4	3500	240	3000	200	2500	175	2250	155	5800	400	6000	420
14	7/8	3000	200	2500	175								
16	1-0	3000	200	2500	175	2000	135	2000	135	5800	400	5000	350
20	1 1/4	2500	175	2000	135	1150	80	1625	110	3625	250	4000	275
24	1 1/2	2000	135	1500	100	1000	70	1250	85	3625	250	3000	200
32	2-0	1500	100	1125	75	1000	70	1125	75				

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Working Pressure Ratings - Metric

	ISO 6149 Metric Stud (Port) MSM / MSF <i>Dowty seal or OR & RR</i>		ISO 6149 Metric Adjustable Stud MMP <i>OR & RR</i>		JIS B8363 Metric Komatsu MKM / MKF <i>Sealing on 60° cone</i>		DIN 7631 Metric 60° Seat Sealing MIM / MIF <i>Sealing on 60° seat</i>		NF E48-064 Metric French GAZ MFM / MFF <i>Sealing on 24° seat</i>	
Size	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
8 x 1.0	9135	630	5800	400						
10 x 1.0	9135	630	5800	400						
12 x 1.0							3625	250		
12 x 1.5	9135	630	5800	400						
14 x 1.5	9135	630	5800	400	5075	350	3625	250		
16 x 1.5	9135	630	5800	400	5075	350	3625	250		
18 x 1.5	9135	630	5800	400	5075	350	3625	250		
20 x 1.5	5800	400					2900	200	5220	360
22 x 1.5	9135	630	5800	400	5075	350	2320	160		
24 x 1.5					4060	280	2320	160	3915	270
27 x 1.5							2320	160		
27 x 2.0	5800	400	5800	400						
30 x 1.5					4060	280	2320	160	3695	255
30 x 2.0	5800	400	5075	350						
33 x 1.5					4060	280	2320	160		
33 x 2.0	5800	400	5075	350						
36 x 1.5					2535	175	2320	160	2900	200
39 x 1.5							1765	122		
42 x 1.5					1520	105				
42 x 2.0	3625	250	3625	250						
45 x 1.5									2465	170
48 x 2.0	3625	250	2900	200						

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Working Pressure Ratings - Metric - Light (L) and Heavy (S)

Tube OD (mm)	ISO 8434-1 DIN Light (L) MLM / MLF 24° seat with OR			ISO 8434-1 DIN Heavy (S) MHM / MHF 24° seat with OR		
	Thread (mm)	PSI	Bar	Thread (mm)	PSI	Bar
4						
6	12 x 1.5	3625	250	14 x 1.5	9135	630
8	14 x 1.5	3625	250	16 x 1.5	9135	630
10	16 x 1.5	3625	250	18 x 1.5	9135	630
12	18 x 1.5	3625	250	20 x 1.5	9135	630
14				22 x 1.5	9135	630
15	22 x 1.5	3625	250			
16				24 x 1.5	5800	400
18	26 x 1.5	2320	160			
20				30 x 2.0	5800	400
22	30 x 2.0	2320	160			
25				36 x 2.0	5800	400
28	36 x 2.0	1450	100			
30				42 x 2.0	3625	250
35	45 x 2.0	1450	100			
38				52 x 2.0	3625	250
42	52 x 2.0	1450	100			

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Working Pressure Ratings - Flanges

		SAE J518 Code 61 Flanges F61 <i>Flange with Imperial Bolts</i>			SAE J518 Code 62 Flanges F62 <i>Flange with Imperial Bolts</i>			ISO 6162-1 Code 61 Flanges F61 <i>Flange with Metric Bolts</i>			ISO 6162-2 Code 62 Flanges F62 <i>Flange with Metric Bolts</i>		
Size		PSI	Bar	Rec. Imperial Bolt Torque (N.m)	PSI	Bar	Rec. Imperial Bolt Torque (N.m)	PSI	Bar	Rec. Metric Bolt Torque (N.m) (-0, +10%)	PSI	Bar	Rec. Metric Bolt Torque (N.m) (-0, +10%)
08	1/2	5000	350	20 - 25	6000	420	20 - 25	5000	350	32	6000	420	32
12	3/4	5000	350	28 - 40	6000	420	34 - 45	5000	350	70	6000	420	70
16	1-0	5000	350	37 - 48	6000	420	56 - 68	5000	320	70	6000	420	130
20	1 1/4	4000	280	48 - 62	6000	420	85 - 102	4000	280	70	6000	420	130
24	1 1/2	3000	210	62 - 79	6000	420	158 - 181	3000	210	130	6000	420	295
32	2-0	3000	210	73 - 90	6000	420	271 - 294	3000	210	130	6000	420	550
40	2-1/2	2500	175	107 - 124				2500	175	130			
48	3-0	2000	140	186 - 203				2320	160	295			

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Page 5 of 5

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