

**FLANGE BOLT TORQUE GUIDELINES**

**WEB DATA 10.03-5  
July, 2012**



**Pressure: 250 psi**

Nominal Valve Size	Flange Bolting Number of Bolts	Flange Bolt Size	80 Durometer Rubber Gasket			Compressed Non-asbestos Hard Gasket		
			Recommended Bolt Load	Bolt Torque Non-lubricated	Bolt Torque Lubricated	Recommended Bolt Load	Bolt Torque Non-lubricated	Bolt Torque Lubricated
3	4	5/8 x 11	2,080	51	18	9,050	165	55
4	8	5/8 x 11	1,700	29	10	5,300	105	27
6	8	3/4 x 10	2,630	78	26	8,380	215	75
8	8	3/4 x 10	4,080	120	40	11,200	285	95
10	12	7/8 x 9	3,980	136	45	9,740	295	98
12	12	7/8 x 9	5,830	197	66	13,060	365	122
14	12	1 - 8	6,080	269	90	13,800	480	160
16	16	1 - 8	5,910	260	87	12,600	440	150
18	16	1-1/8 x 7	6,580	330	110	12,500	490	165
20	20	1-1/8 x 7	6,400	320	106	11,500	450	150
24	20	1-1/4 x 7	8,860	495	165	15,700	685	230
30	28	1-1/4 x 7	9,520	530	177	14,700	710	240
36	32	1-1/2 x 6	11,600	780	260	18,400	1,025	345
42	36	1-1/2 x 6	14,800	940	315	20,500	1,210	405
48	44	1-1/2 x 6	14,700	985	330	21,090	1,250	420

Note: The Bolt Loads are given in lbs, and the Bolt Torques are given in ft-lbs.  
Minimum torque to achieve gasket seal.