BOLTING AND RING GASKET DATA FOR API AND ANSI FLANGES

API Flanges

API Pressure Rating	Flange Size & Bolts	Ring Gasket API No.	No. of Studs	Stud with Two Nuts Size	Stud with Two Nuts Length
	2 1/6"	R or RX 23	8	5/8"	4 3/4"
	2 9/16"	R or RX 26	8	3/4"	5 1/4"
	3 1/8"	R or RX 31	8	3/4"	5 1/2"
	4 1/16"	R or RX 37	8	7/8"	6 1/4"
2000 lb. WOG	7 1/16"	R or RX 45	12	1"	7 1/4"
4000 lb. Test	9"	R or RX 49	12	1 1/8"	8 1/4"
	11"	R or RX 53	16	1 1/4"	9"
	13 5/8"	R or RX 57	20	1 1/4"	9 1/4"
	16 3/4"	R or RX 65	20	1 1/2"	10 1/2"
	21 1/4"	R or RX 73	24	1 5/8"	12"
	2 1/16"	R or RX 24	8	7/8"	6 1/4"
	2 9/16"	R or RX 27	8	1"	6 3/4"
	3 1/8"	R or RX 31	8	7/8"	6 1/4"
3000 lb.	4 1/16"	R or RX 37	8	1 1/8"	7 1/4"
WOG	7 1/16"	R or RX 45	12	1 1/8"	8 1/4"
6000 lb.	9"	R or RX 49	12	1 3/8"	9 1/4"
Test	11"	R or RX 53	16	1 3/8"	9 3/4"
	13 5/8"	R or RX 57	20	1 3/8"	10 1/2"
	16 3/4"	R or RX 66	20	1 5/8"	12"
	20 3/4"	R or RX 74	20	2"	14 3/4"
	2 1/16"	R or RX 24	8	7/8"	6 1/4"
	2 9/16"	R or RX 27	8	1"	6 3/4"
5000 lb.	3 1/8"	R or RX 35	8	1 1/8"	7 1/2"
WOG	4 1/16"	R or RX 39	8	1 1/4"	8 1/4"
10,000 lb.	7 1/16"	R or RX 46	12	1 3/8"	11"
Test	9"	R or RX 50	12	1 5/8"	12 1/4"
	11"	R or RX 54	12	1 7/8"	14"
	13 5/8"	R or RX 57	20	1 3/8"	10 1/2"

Note: Studs are measured on end to end basis.

API Pressure Rating	Flange Size & Bolts	Ring Gasket API No.	No. of Studs	Stud with Two Nuts Size	Stud with Two Nuts Length
2000 lb. WOG 4000 lb. Test 6 BX	26 3/4"	BX 167	20	1 3/4"	14"
3000 lb. WOG 6000 lb. Test 6 BX	26 3/4"	BX 168	24	2"	17 1/4"
5000 lb.	13 5/8"	BX 160	16	1 5/8"	12 3/4"
WOG	16 3/4"	BX 162	16	1 7/8"	14 3/4"
10,000 lb.	18 3/4"	BX 163	20	2"	17 3/4"
Test	21 1/4"	BX 165	24	2"	19"
6 BX					
	1 11/16"	BX 150	8	3/4"	5 1/4"
	1 13/16"	BX 151	8	3/4"	5 1/4"
	2 1/16"	BX 152	8	3/4"	5 1/2"
	2 9/16"	BX 153	8	7/8"	6 1/4"
10,000 lb.	3 1/16"	BX 154	8	1"	7"
WOG	4 1/16"	BX 155	8	1 1/8"	8 1/4"
15,000 lb.	5 1/8"	BX 169	12	1 1/8"	9"
Test	7 1/16"	BX 156	12	1 1/2"	11 1/2"
6 BX	9"	BX 157	16	1 1/2"	13 1/4"
	11"	BX 158	16	1 3/4"	15 1/4"
	13 5/8"	BX 159	20	1 7/8"	17 1/2"
	16 3/4"	BX 162	24	1 7/8"	17 3/4"
	18 3/4"	BX 164	24	2 1/4"	22 3/4"
	21 1/4"	BX 166	24	2 1/2"	24"
	1 11/16"	BX 150	8	3/4"	5 1/2"
	1 13/16"	BX 151	8	7/8"	5 3/4"
15,000 lb.	2 1/16"	BX 152	8	7/8"	6 1/4"
WOG	2 9/16"	BX 153	8	1"	7"
22,500 lb.	3 1/16"	BX 154	8	1 1/8"	7 3/4"
Test	4 1/16"	BX 155	8	1 3/8"	9 1/2"
6 BX	7 1/16"	BX 156	16	1 1/2"	13"
	9"	BX 157	16	1 7/8"	16"
	11"	BX 158	20	2"	19 1/2"
	1 13/16"	BX 151	8	1"	7 3/4"
20,000 lb.	2 1/16"	BX 152	8	1 1/8"	8 1/2"
WOG	2 9/16"	BX 153	8	1 1/4"	9 1/2"
6 BX	3 1/16"	BX 154	8	1 3/8"	10 1/4"
	4 1/16"	BX 155	8	1 3/4"	12 1/2"
	7 1/16"	BX 156	16	2"	17 3/4"