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API RING TOOL JOINT (FLANGE) DATA  
SERVICE PRESSURE RATING IN PSI OTHER DIMENSIONS IN INCHES

API FLANGE SIZE	OLD API NOMINAL FLANGE SIZE	API WORKING PRESSURE	OLD API SERIES	OUTSIDE DIAMETER OF FLANGE	TOTAL THICKNESS OF FLANGE	DIMETER OF BOLT CIRCLE	NO. OF STUDS & STUD BOLTS PER FLANGE	DIAMETER OF STUD & STUD BOLT	LENGTH OF STUD W / 2 NUTS	LENGTH OF STUD W / 1 NUTS	NUT SIZE	PITCH DIA. OF TYPE R RING & GROOVE	RING GASKET NUMBER	Recommended 6BX FLANGE BOLT TORQUE
1 11/16		10,000		7 3/16	1 21/32	5 9/16	8	3/4	5	3 1/2	1 1/4		BX-150	200
1 11/16		15,000		7 5/8	1 3/4	6	8	3/4	5 1/4	3 1/2	1 1/4		BX-150	200
*1 13/16*	1 1/2	2,000	600	6 1/8	1 1/8	4 1/2	4	3/4	4 1/4	3	1 1/4	2 11/16	R-20	
*1 13/16*	1 1/2	3,000	900	7	1 1/2	4 7/8	4	1	5 1/2	3 1/2	1 5/8	2 11/16	R-20	
*1 13/16*	1 1/2	5,000	1,500	7	1 1/2	4 7/8	4	1	5 1/2	3 1/2	1 5/8	2 11/16	R-20	
1 13/16		10,000		7 3/8	1 21/32	5 3/4	8	3/4	5	3 1/2	1 1/4		BX-151	200
1 13/16		15,000		8 3/16	1 25/32	6 5/16	8	7/8	5 1/2	4 1/4	1 7/16		BX-151	325
1 13/16		20,000		10 1/8	2 1/2	8	8	1	7 1/2	5	1 5/8		BX-151	475
2 1/16	2	2,000	600	6 1/2	1 5/16	5	8	5/8	4 1/2	3 3/4	1 1/16	3 1/4	R-23	
2 1/16	2	3,000	900	8 1/2	1 13/16	6 1/2	8	7/8	6	4	1 7/16	3 3/4	R-24	
2 1/16	2	5,000	1,500	8 1/2	1 13/16	6 1/2	8	7/8	6	4	1 7/16	3 3/4	R-24	
2 1/16		10,000		7 7/8	1 47/64	6 1/4	8	3/4	5 1/4	3 1/2	1 1/4		BX-152	200
2 1/16		15,000		8 3/4	2	6 7/8	8	7/8	6	4 1/4	1 7/16		BX-152	325
2 1/16		20,000		11 5/16	2 13/16	9 1/16	8	1 1/8	8 1/4	5 1/2	1 13/16		BX-152	600
2 9/16	2 1/2	2,000	600	7 1/2	1 7/16	5 7/8	8	3/4	5	4	1 1/4	4	R-26	
2 9/16	2 1/2	3,000	900	9 5/8	1 15/16	7 1/2	8	1	6 1/2	4 3/4	1 5/8	4 1/4	R-27	
2 9/16	2 1/2	5,000	1,500	9 5/8	1 15/16	7 1/2	8	1	6 1/2	4 3/4	1 5/8	4 1/4	R-27	
2 9/16		10,000		9 1/8	2 1/64	7 1/4	8	7/8	6	4 1/4	1 7/16		BX-153	325
2 9/16		15,000		10	2 1/4	7 7/8	8	1	6 3/4	4 3/4	1 5/8		BX-153	475
2 9/16		20,000		12 13/16	3 1/8	10 5/16	8	1 1/4	9 1/4	6 1/4	2		BX-153	900
3 1/8	3	2,000	600	8 1/4	1 9/16	6 5/8	8	3/4	5 1/4	4 1/4	1 1/4	4 7/8	R-31	
3 1/8	3	3,000	900	9 1/2	1 13/16	7 1/2	8	7/8	6	4 1/2	1 7/16	4 7/8	R-31	
3 1/8	3	5,000	1,500	10 1/2	2 3/16	8	8	1 1/8	7 1/4	5 1/2	1 13/16	5 3/8	R-35	
3 1/16		10,000		10 5/8	2 9/64	8 1/2	8	1	6 3/4	4 3/4	1 5/8		BX-154	475
3 1/16		15,000		11 5/16	2 17/32	9 1/16	8	1 1/8	7 1/2	5 1/4	1 13/16		BX-154	600
3 1/16		20,000		14 1/16	3 3/8	11 5/16	8	1 3/8	10	6 3/4	2 3/16		BX-154	1,200
4 1/16	4	2,000	600	10 3/4	1 13/16	8 1/2	8	7/8	6	4 3/4	1 7/16	5 7/8	R-37	
4 1/16	4	3,000	900	11 1/2	2 1/16	9 1/4	8	1 1/8	7	5 1/4	1 13/16	5 7/8	R-37	
4 1/16	4	5,000	1,500	12 1/4	2 7/16	9 1/2	8	1 1/4	8	5 3/4	2	6 3/8	R-39	
4 1/16		10,000		12 7/16	2 49/64	10 3/16	8	1 1/8	8	5 1/2	1 13/16		BX-155	600
4 1/16		15,000		14 3/16	3 3/32	11 7/16	8	1 3/8	9 1/4	6 3/4	2 3/16		BX-155	1,200
4 1/16		20,000		17 9/16	4 3/16	14 1/16	8	1 3/4	12 1/4	8 1/4	2 3/4		BX-155	2,040
*5 1/8*	5	2,000	600	13	2 1/16	10 1/2	8	1	6 3/4	5	1 5/8	7 1/8	R-41	
*5 1/8*	5	3,000	900	13 3/4	2 5/16	11	8	1 1/4	7 3/4	5 3/4	2	7 1/8	R-41	
*5 1/8*	5	5,000	1,500	14 3/4	3 3/16	11 1/2	8	1 1/2	10	7 3/4	2 3/8	7 5/8	R-44	
*5 1/8*		10,000		14 1/16	3 1/8	11 13/16	12	1 1/8	8 3/4	6 3/4	1 13/16		BX-169	600
7 1/16	6	2,000	600	14	2 3/16	11 1/2	12	1	7	4 3/4	1 5/8	8 5/16	R-45	
7 1/16	6	3,000	900	15	2 1/2	12 1/2	12	1 1/8	8	5 1/2	1 13/16	8 5/16	R-45	
7 1/16	6	5,000	1,500	15 1/2	3 5/8	12 1/2	12	1 3/8	10 3/4	7 1/4	2 13/16	8 5/16	R-46	
7 1/16		10,000		18 7/8	4 1/16	15 7/8	12	1 1/2	11 1/4	7 1/2	2 3/8		BX-156	1,400
7 1/16		15,000		19 7/8	4 11/16	16 7/8	16	1 1/2	12 3/4	8 1/2	2 3/8		BX-156	1,400
7 1/16		20,000		25 13/16	6 1/2	21 13/16	16	2	17 1/2	11 1/4	3 1/8		BX-156	3,850
9	8	2,000	600	16 1/2	2 1/2	13 3/4	12	1 1/8	8	5 3/4	1 13/16	10 5/8	R-49	
9	8	3,000	900	18 1/2	2 13/16	15 1/2	12	1 3/8	9	6 3/4	2 13/16	10 5/8	R-49	
9	8	5,000	1,500	19	4 1/16	15 1/2	12	1 5/8	12	8 1/4	2 9/16	10 5/8	R-50	
9		10,000		21 3/4	4 7/8	18 3/4	16	1 1/2	13	8 1/2	2 3/8		BX-157	1,400
9		15,000		25 1/2	5 3/4	21 3/4	16	1 7/8	15 3/4	11	2 15/16		BX-157	3,220
9		20,000		31 11/16	8 1/16	27	16	2 1/2	22 3/8	13 3/4	3 7/8		BX-157	
11	10	2,000	600	20	2 13/16	17	16	1 1/4	8 3/4	6 1/4	2	12 3/4	R-53	
11	10	3,000	900	21 1/2	3 1/16	18 1/2	16	1 3/8	9 1/2	6 3/4	2 13/16	12 3/4	R-53	
11	10	5,000	1,500	23	4 11/16	19	12	1 7/8	13 3/4	9 1/4	2 15/16	12 3/4	R-54	
11		10,000		25 3/4	5 9/16	22 1/4	16	1 3/4	15	9 1/2	2 3/4		BX-158	2,040
11		15,000		32	7 3/8	28	20	2	19 1/4	12	3 1/8		BX-158	3,850
11		20,000		34 3/4	8 13/16	29 1/2	16	2 3/4	23 3/4		4 1/4		BX-159	
13 5/8	12	2,000	600	22	2 15/16	19 1/4	20	1 1/4	9	6 1/2	2	15	R-57	
13 5/8	12	3,000	900	24	3 7/16	21	20	1 3/8	10 1/4	7 1/4	2 15/16	15	R-57	
13 5/8	12	5,000	1,500	26 1/2	4 7/16	23 1/4	16	1 5/8	12 1/2	8 1/4	2 9/16		BX-160	1,700
13 5/8		10,000		30 1/4	6 5/8	26 1/2	20	1 7/8	17 1/4	10 3/4	2 15/16		BX-159	3,220
13 5/8		15,000		34 7/8	8 1/16	30 3/8	20	2 1/4	21 1/4	13	3 1/2		BX-159	
13 5/8		20,000		45 3/4	11 1/2	40	20	3	30		4 5/8		BX-159	
16 3/4	16	2,000	600	27	3 5/16	23 3/4	20	1 1/2	10 1/4	7 1/2	2 3/8	18 1/2	R-65	
16 3/4	16	3,000	900	27 3/4	3 15/16	24 1/4	20	1 5/8	11 3/4	8 1/4	2 9/16	18 1/2	R-66	
*16 3/4*	16	5,000	1,500	30 3/8	5 1/8	26 5/8	16	1 3/4	14 5/8	9 1/4	2 3/4		BX-161	2,040
16 3/4	16	5,000	1,500	30 3/8	5 1/8	26 5/8	16	1 7/8	14 1/2	9 1/4	2 15/16		BX-162	3,220
16 3/4		10,000		34 5/16	6 5/8	30 9/16	24	1 7/8	17 1/2	11	2 15/16		BX-162	3,220
*17 3/4*	18	2,000	600	29 1/4	3 9/16	25 3/4	20	1 5/8	11	8		21	R-69	
*17 3/4*	18	3,000	900	31	4 1/2	27	20	1 5/8	11 3/4	8 1/4	2 9/16	21	R-70	
18 3/4		5,000	1,500	35 5/8	7 1/8	31 5/8	20	2	17 1/2	11 1/2	3 1/8		BX-163	3,850
18 3/4		10,000		40 15/16	8 25/32	36 7/16	24	2 1/4	22 1/2	13 3/4	3 1/2		BX-164	
18 3/4		15,000		45 3/4	10 1/16	40	20	3	26 3/4		4 5/8		BX-164	
20 3/4	20	3,000	900	33 3/4	4 3/4	29 1/2	20	2	14 1/2	10	3 1/8	23	R-74	
21 1/4	20	2,000	600	32	3 7/8	28 1/2	24	1 5/8	11 3/4	8 1/4	2 9/16	23	R-73	
21 1/4		3,000	900	33 3/4	4 3/4	29 1/2	20	2	15 1/4	10	3 1/8	23	R-74	
21 1/4		5,000	1,500	39	7 1/8	34 7/8	24	2	18 3/4	11 3/4	3 1/8		BX-165	3,850
21 1/4		10,000		45	9 1/2	40 1/4	24	2 1/2	24 1/2	15	3 7/8		BX-166	
26 3/4		2,000	600	41	4 31/32	37 1/2	20	1 3/4	13 3/4	9	2 3/4		BX-167	2,040
26 3/4		3,000	900	43 3/8	6 11/32	39 3/8	24	2	17	11 1/4	3 1/8		BX-168	3,850