

ANSI 150# FLANGES

NOMINAL PIPE SIZE	QUANTITY OF BOLTS	BOLT DIAMETER	REC. TORQUE FT. LBS	
			MIN	MAX
1/2	4	1/2	40	50
3/4	4	1/2	40	50
1	4	1/2	40	50
1 1/2	4	1/2	40	50
2	4	5/8	80	90
2 1/2	4	5/8	80	90
3	4	5/8	110	120
3 1/2	8	5/8	80	90
4	8	5/8	100	110
5	8	3/4	120	130
6	8	3/4	130	150
8	8	3/4	130	150
10	12	7/8	215	230
12	12	7/8	220	230
14	12	1	320	340
16	16	1	320	340
18	16	1 1/8	450	470
20	20	1 1/8	450	470
22	20	1 1/8	460	480
24	20	1 1/4	650	670
26	24	1 1/4	650	670
28	28	1 1/4	650	670
30	28	1 1/4	650	670
32	28	1 1/2	1000	1075
34	32	1 1/2	1000	1075
36	32	1 1/2	1100	1180
38	32	1 1/2	1100	1180
40	36	1 1/2	1100	1180
42	36	1 1/2	1150	1200
HYDRO TEST PRESSURE: 435 PSI				

ANSI 300# FLANGES

NOMINAL PIPE SIZE	QUANTITY OF BOLTS	BOLT DIAMETER	REC. TORQUE FT. LBS	
			MIN	MAX
1/2	4	1/2	80	90
3/4	4	5/8	80	90
1	4	5/8	110	120
1 1/2	4	3/4	110	120
2	8	5/8	110	120
2 1/2	8	3/4	150	170
3	8	3/4	150	170
3 1/2	8	3/4	150	170
4	8	3/4	180	200
5	8	3/4	180	200
6	12	7/8	170	190
8	12	1	265	275
10	16	1 1/8	320	350
12	16	1 1/8	450	470
14	20	1 1/4	450	470
16	20	1 1/4	650	670
18	24	1 1/4	650	670
20	24	1 1/4	650	670
22	24	1 1/2	1125	1150
24	24	1 1/2	1200	1250
26	28	1 5/8	1400	1450
28	28	1 5/8	1500	1550
30	28	1 3/4	1700	1775
32	28	1 7/8	2000	2075
34	28	1 7/8	2250	2075
36	32	2	2300	2380
38	32	2	2300	2380
40	32	2	2400	2480
42	32	2	2400	2480
HYDRO TEST PRESSURE: 1135 PSI				

ANSI 600# FLANGES

NOMINAL PIPE SIZE	QUANTITY OF BOLTS	BOLT DIAMETER	REC. TORQUE FT. LBS	
			MIN	MAX
1/2	4	1/2	80	90
3/4	4	5/8	80	90
1	4	5/8	80	90
1 1/2	4	5/8	110	120
2	8	5/8	110	120
2 1/2	8	3/4	150	170
3	8	3/4	150	170
3 1/2	8	7/8	200	220
4	8	7/8	225	240
5	8	1	350	370
6	12	1	320	330
8	12	1 1/8	450	470
10	16	1 1/4	650	670
12	16	1 1/4	675	690
14	20	1 3/8	820	840
16	20	1 1/2	1125	1145
18	24	1 5/8	1430	1450
20	24	1 5/8	1400	1430
22	24	1 3/4	1775	1800
24	24	1 7/8	2230	2250
26	28	1 7/8	2200	2230
28	28	2	2300	2330
30	28	2	2360	2380
32	28	2 1/4	3900	3930
34	28	2 1/4	3950	3975
36	32	2 1/2	5500	5530
38	32	2 3/4	7000	7030
40	32	2 3/4	7200	7230
42	32	2 3/4	7400	7430
HYDRO TEST PRESSURE: 2245 PSI				



***RAMCO*MANUFACTURING DOES NOT TAKE ANY RESPONSIBILITY FOR ANY OF THESE TORQUE VALUES, THEY ARE THEORETICAL VALUES & SHOULD BE UTILIZED

FOR REFERENCE ONLY. THESE TORQUE VALUES ARE INTENDED FOR USE AS QUIDELINES ONLY & ARE BASED ON PERFECT CONDITIONS. THESE VALUES ARE

BASED ON USING WELDNECK FLANGES & LUBRICATED STUD BOLTS WITH A 0.15 FRICTION FACTOR.***

CONTACT US AT:

INFO@RAMCO-SAFETYSHIELDS.COM
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ACTUAL TORQUE VALUES TO BE
DETERMINED BY USER

ALLWAYS WEAR
SAFETY EQUIPMENT

ANSI 900# FLANGE

NOMINAL PIPE SIZE	QUANTITY OF BOLTS	BOLT DIAMETER	REC. TORQUE FT. LBS	
			MIN	MAX
1/2	4	3/4	95	120
3/4	4	3/4	95	140
1	4	5/8	110	120
1 1/2	4	3/4	110	120
2	8	5/8	110	120
2 1/2	8	3/4	150	170
3	8	3/4	150	170
3 1/2	8	7/8	200	220
4	8	7/8	225	240
5	8	1	350	370
6	12	1	320	330
8	12	1 1/8	450	470
10	16	1 1/4	650	670
12	20	1 1/4	675	690
14	20	1 3/8	820	840
16	20	1 1/2	1125	1145
18	20	1 5/8	1430	1450
20	24	1 5/8	1400	1430
22	24	1 3/4	1775	1800
24	28	1 7/8	2230	2250
26	28	1 7/8	2200	2230
28	28	2	2300	2330
30	28	2	2360	2380
32	28	2	3900	3930
34	28	2 1/4	3950	3975
36	28	2 1/4	5500	5530
38	28	2 1/2	7000	7030
40	28	2 3/4	7200	7230
42	28	2 3/4	7400	7430
HYDRO TEST PRESSURE: 3355 PSI				

ANSI 1500# FLANGE

NOMINAL PIPE SIZE	QUANTITY OF BOLTS	BOLT DIAMETER	REC. TORQUE FT. LBS	
			MIN	MAX
1/2	4	3/4	95	120
3/4	4	3/4	95	120
1	4	7/8	110	120
1 1/2	4	1	240	260
2	8	7/8	170	190
2 1/2	8	1	240	260
3	8	7/8	215	235
3 1/2	-	-	-	-
4	8	1 1/8	450	470
5	8	1 1/4	650	670
6	12	1 1/8	455	475
8	12	1 3/8	820	840
10	16	1 3/8	850	870
12	20	1 3/8	870	890
14	20	1 1/2	1125	1155
16	20	1 5/8	1430	1450
18	20	1 7/8	2230	2250
20	20	2	2300	2340
22	-	-	-	-
24	20	2 1/2	5500	5550
26	20	2 3/4	7400	7450
28	20	3	8400	8450
30	20	3	9500	9550
32	20	3 1/4	10500	10550
34	20	3 1/2	12400	12450
36	20	3 1/2	13800	13850
38	-	-	-	-
40	-	-	-	-
42	-	-	-	-
HYDRO TEST PRESSURE: 5585				

ANSI 2500# FLANGE

NOMINAL PIPE SIZE	QUANTITY OF BOLTS	BOLT DIAMETER	REC. TORQUE FT. LBS	
			MIN	MAX
1/2	4	3/4	95	120
3/4	4	3/4	95	120
1	4	7/8	170	190
1 1/2	4	1 1/8	400	420
2	8	1	300	320
2 1/2	8	1 1/8	400	420
3	8	1 1/4	600	640
3 1/2	-	-	-	-
4	8	1 1/4	650	680
5	8	1 3/4	1500	1550
6	8	2	2300	2350
8	12	2	2400	2450
10	12	2 1/2	4900	4950
12	12	2 3/4	7900	7950
14	-	-	-	-
16	-	-	-	-
18	-	-	-	-
20	-	-	-	-
22	-	-	-	-
24	-	-	-	-
26	-	-	-	-
28	-	-	-	-
30	-	-	-	-
32	-	-	-	-
34	-	-	-	-
36	-	-	-	-
38	-	-	-	-
40	-	-	-	-
42	-	-	-	-
HYDRO TEST PRESSURE: 9280 PSI				



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