

STANDARD FLANGE SPECIFICATIONS

Series 150 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
12"	17"	12	7/8"	1 7/16"
14"	18 3/4"	12	1"	1 5/8"
15"	21 1/4"	16	1"	1 5/8"
18"	22 3/4"	16	1 1/8"	1 13/16"
20"	25"	20	1 1/8"	1 13/16"
22"	27 1/4"	20	1 1/4"	2"
24"	29 1/2"	20	1 1/4"	2"
26"	31 3/4"	24	1 1/4"	2"
30"	38"	28	1 1/4"	2"
34"	40 1/2"	32	1 1/2"	2 3/8"
36"	42 3/4"	32	1 1/2"	2 3/8"

Series 175 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
42"	47 3/4"	40	1"	1/8"

Series 300 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
8"	13"	12	7/8"	1 7/16"
10"	15 1/4"	16	1"	1 5/8"
12"	17 3/4"	16	1 1/8"	1 13/16"
14"	20 1/4"	20	1 1/8"	1 13/16"
16"	22 1/2"	20	1 1/4"	2"
18"	24 3/4"	24	1 1/4"	2"
20"	27"	24	1 1/4"	2"
22"	29 1/4"	24	1 1/2"	2 3/8"
24"	32"	24	1 1/2"	2 3/8"
26"	34 1/2"	28	1 3/8"	2 9/16"
30"	39 1/4"	28	1 3/4"	2 3/4"
34"	43 1/2"	28	1-7/8"	2 15/16"
36"	46"	32	2"	3 1/8"
42"	52 3/4"	36	2"	3 1/8"

Series 400 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
8"	13"	12	1"	1 5/8"
10"	16"	16	1 1/8"	1 13/16"
12"	17 3/4"	16	1 1/4"	2"
14"	20 1/4"	20	1 1/4"	2"
16"	22 1/2"	20	1 3/8"	2 3/16"
18"	24 3/4"	24	1 3/8"	2 3/16"
20"	27"	24	1 1/2"	2 3/8"
22"	29 1/4"	24	1 5/8"	2 9/16"
24"	32"	24	1 3/4"	2 3/4"
26"	34 1/2"	28	1 3/4"	2 3/4"
30"	39 1/4"	28	2"	3 1/8"
34"	43 1/2"	28	2"	3 1/8"
36"	46"	32	2"	3 1/8"
42"	52 3/4"	32	2 1/2"	3 7/8"

TORQUE TOOLS, INC.

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STANDARD FLANGE SPECIFICATIONS

Series 600 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
6"	11 1/2"	12	1"	1 5/8"
8"	13 3/4"	12	1 1/8"	1 13/16"
10"	17"	16	1 1/4"	2"
12"	19 1/4"	20	1 1/4"	2"
14"	20 3/4"	20	1 3/8"	2 3/16"
16"	23 3/4"	20	1 1/2"	2 3/8"
18"	25 3/4"	20	1 5/8"	2 9/16"
20"	28 1/2"	24	1 5/8"	2 9/16"
22"	30 5/8"	24	1 3/4"	2 3/4"
24"	33"	24	1 7/8"	2 15/16"
26"	36"	28	1 7/8"	2 15/16"
30"	40 1/4"	28	2"	3 1/8"
34"	44 1/2"	28	2 1/4"	3 1/2"
36"	47"	28	2 1/2"	3 7/8"
42"	53 3/4"	28	2 3/4"	4 1/4"

Series 900 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
6"	12 1/2"	12	1 1/8"	1 13/16"
8"	15 1/2"	12	1 3/8"	2 3/16"
10"	18 1/2"	16	1 3/8"	2 3/16"
12"	21"	20	1 3/8"	2 3/16"
14"	22"	20	1 1/2"	2 5/8"
16"	24 1/4"	20	1 5/8"	2 9/16"
18"	27"	20	1 7/8"	2 15/16"
20"	28 1/2"	20	2"	3 1/8"
24"	35 1/2"	20	2 1/2"	3 7/8"
26"	37 1/2"	20	2 3/4"	4 1/4"
30"	42 3/4"	20	3"	4 5/8"

Series 1500 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
5"	11 1/2"	8	1 1/2"	2 3/8"
6"	12 1/2"	12	1 3/8"	2 3/16"
8"	15 1/2"	12	1 5/8"	2 9/16"
10"	19"	12	1 7/8"	2 15/16"
12"	22 1/2"	16	2"	3 1/8"
14"	25"	16	2 1/4"	3 1/2"
16"	27 3/4"	16	2 1/2"	3 7/8"
18"	30 1/2"	16	2 3/4"	4 1/4"
20"	32 3/4"	16	3"	4 5/8"

Series 2500 Flanges

Pipe Size	Bolt Circle	# of Bolts	Bolt Dia.	Nut Size
3"	9"	8	1 1/4"	2"
4"	10 3/4"	8	1 1/2"	2 3/8"
5"	12 3/4"	8	1 3/4"	2 3/4"
6"	14 1/2"	8	2"	3 1/8"
8"	17 1/4"	12	2"	3 1/8"
10"	21 1/4"	12	2 1/2"	3 7/8"
12"	24 3/8"	12	2 3/4"	4 1/4"

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FOR REFERENCE ONLY Title: **API Flange Data Reference Chart (Valves)**

- NOTES:**
- (1) Torque Value to be used when using moly disulfide lubricant
 - (2) Torque Value to be used when using API 5A lubricant

Bore Working (in.)	Size Pressure	Nut Size A.F. (in.)	Bolt Size Diameter (in.)	Torque (ft.lbs.)	
				Note 1	Note 2
1 13/16	10000	1 1/4	3/4	200	300
1 13/16	15000	1 7/16	7/8	325	450
1 13/16	20000	1 5/8	1	475	550
2 1/16	2000	1 1/16	5/8	150	250
2 1/16	5000	1 7/16	7/8	325	450
2 1/16	10000	1 1/4	3/4	200	300
2 1/16	15000	1 7/16	7/8	325	450
2 1/16	20000	1 13/16	1 1/8	600	800
2 9/16	2000	1 1/4	3/4	200	300
2 9/16	5000	1 5/8	1	475	550
2 9/16	10000	1 7/16	7/8	325	450
2 9/16	15000	1 5/8	1	475	550
2 9/16	20000	2	1 1/4	600	1000
3 1/8	2000	1 1/4	3/4	200	300
3 1/8	3000	1 7/16	7/8	325	450
3 1/8	5000	1 13/16	1 1/8	600	800
3 1/16	10000	1 5/8	1	475	550
3 1/16	15000	1 13/16	1 1/8	600	800
3 1/16	20000	2 3/16	1 3/8	700	1200
4 1/16	2000	1 7/16	7/8	325	450
4 1/16	3000	1 13/16	1 1/8	600	800
4 1/16	5000	2	1 1/4	600	1000
4 1/16	10000	1 13/16	1 1/8	600	800
4 1/16	15000	2 3/16	1 3/8	700	1200
4 1/16	20000	2 3/4	1 3/4	1460	2040
5 1/8	2000	1 5/8	1	475	550
5 1/8	3000	2	1 1/4	600	1000
5 1/8	5000	2 3/8	1 1/2	920	1400
5 1/8	10000	1 13/16	1 1/8	600	800
7 1/16	2000	1 5/8	1	475	550
7 1/16	3000	1 13/16	1 1/8	600	800
7 1/16	5000	2 3/16	1 3/8	700	1200
7 1/16	10000	2 3/8	1 1/2	920	1400
7 1/16	15000	2 3/8	1 1/2	920	1400
7 1/16	20000	3 1/8	2	2190	3850

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Title: **API Flange Data Reference Chart (Wellheads and BOP's)**

FOR REFERENCE ONLY

- NOTES:
 (1) Torque Value to be used when using moly disulfide lubricant
 (2) Torque Value to be used when using API 5A lubricant

Bore Working (in.)	Size Pressure	Nut Size A.F. (in.)	Bolt Size Diameter (in.)	Torque (ft.lbs.)	
				Note 1	Note 2
4 1/16	5000	2	1/4	600	1000
4 1/16	10000	1 13/16	1 1/8	400	600
4 1/16	15000	2 3/16	1 3/8	700	1200
4 1/16	20000	2 3/4	1 3/4	1460	2040
7 1/16	2000	1 5/8	1	300	500
7 1/16	3000	1 13/16	1 1/8	400	600
7 1/16	5000	2 3/16	1 3/8	700	1200
7 1/16	10000	2 3/8	1 1/2	920	1400
7 1/16	15000	2 3/8	1 1/2	920	1400
7 1/16	20000	3 1/8	2	2190	3850
9	2000	1 13/16	1 1/8	400	600
9	3000	2 3/16	1 3/8	700	1200
9	5000	2 9/16	1 5/8	1170	1700
9	10000	2 3/8	1 1/2	920	1400
9	15000	2 15/16	1 7/8	1800	3220
11	2000	2	1 1/4	600	1000
11	3000	2 3/16	1 3/8	700	1200
11	5000	2 15/16	1 7/8	1800	3220
11	10000	2 3/4	1 3/4	1460	2040
11	15000	3 1/8	2	2190	3850
13 5/8	2000	2	1 1/4	600	1000
13 5/8	3000	2 3/16	1 3/8	700	1200
13 5/8	5000	2 9/16	1 5/8	1170	1700
13 5/8	10000	2 15/16	1 7/8	1800	3220
13 5/8	15000	3 1/2	2 1/4	3120	4150
16 3/4	2000	2 3/8	1 1/2	920	1400
16 3/4	3000	2 9/16	1 5/8	1170	1700
16 3/4	5000	2 15/16	1 7/8	1800	3220
16 3/4	10000	2 15/16	1 7/8	1800	3220
18 3/4	5000	3 1/8	2	2190	3850
18 3/4	10000	3 1/2	2 1/4	3120	4150
18 3/4	15000	4 5/8	3	6680	11300
20 3/4	3000	3 1/8	2	2190	3850
21 1/4	2000	2 9/16	1 5/8	1170	1700
21 1/4	5000	3 1/8	2	2190	3850
21 1/4	7500	3 7/8	2 1/2	4290	5100
21 1/4	10000	3 7/8	2 1/2	4290	5100
26 3/4	2000	2 3/4	1 3/4	1460	2040
26 3/4	3000	3 1/8	2	2190	3850