

## Carbon and Stainless Steel Flanges - ASME/ANSI Class 150 Dimensions

ASME/ANSI B16.5-1996 Pipe Flanges and Flanged Fittings - Class 150 Flanges - outside and inside diameters, bolt circles, numbers and diameters of bolts for Weld neck, Threaded, Slip-on, Lap joint, Socket weld and Blind flanges.

Pipe Size (inches)	Flange Outside Diameter (inches)	Pipe Outside Diameter (inches) (mm)	Number of Bolt Holes	Bolt Hole Diameter (inches) <sup>1)</sup>	Bolt Circle (inches)
1/2	3-1/2	0.84 21.3	4	5/8	2-3/8
3/4	3-7/8	1.05 26.7	4	5/8	2-3/4
1	4-1/4	1.32 33.5	4	5/8	3-1/8
1-1/4	4-5/8	1.66 42.2	4	5/8	3-1/2
1-1/2	5	1.90 48.3	4	5/8	3-7/8
2	6	2.38 60.5	4	3/4	4-3/4
2-1/2	7	2.88 73.2	4	3/4	5-1/2
3	7-1/2	3.50 88.9	4	3/4	6
3-1/2	8-1/2	4.00 102	8	3/4	7
4	9	4.50 114	8	3/4	7-1/2
5	10	5.56 141	8	7/8	8-1/2
6	11	6.63 168	8	7/8	9-1/2
8	13-1/2	8.63 219	8	7/8	11-3/4
10	16	10.75 273	12	1	14-1/4
12	19	12.75 324	12	1	17
14	21	14.00 356	12	1-1/8	18-3/4
16	23-1/2	16.00 406	16	1-1/8	21-1/4
18	25	18.00 457	16	1-1/4	22-3/4
20	27-1/2	20.00 508	20	1-1/4	25
24	32	24.00 610	20	1-3/8	29-1/2

## Carbon and Stainless Steel Flanges - ASME/ANSI Class 300 Dimensions

ASME/ANSI B16.5-1996 Pipe Flanges and Flanged Fittings - Class 300 Flanges - outside and inside diameters, bolt circles, numbers and diameters of bolts for Weld neck, Threaded, Slip-on, Lap joint, Socket weld and Blind flanges.

Pipe Size (inches)	Flange Outside Diameter (inches)	Pipe Outside Diameter (inches) (mm)	Number of Bolt Holes	Bolt Hole Diameter (inches) <sup>1)</sup>	Bolt Circle (inches)
1/2	3-3/4	0.84 21.3	4	5/8	2-5/8
3/4	4-5/8	1.05 26.7	4	3/4	3-1/4
1	4-7/8	1.32 33.5	4	3/4	3-1/2
1-1/4	5-1/4	1.66 42.2	4	3/4	3-7/8
1-1/2	6-1/8	1.90 48.3	4	7/8	4-1/2
2	6-1/2	2.38 60.5	8	3/4	5
2-1/2	7-1/2	2.88 73.2	8	7/8	5-7/8
3	8-1/4	3.50 88.9	8	7/8	6-5/8
3-1/2	9	4.00 102	8	7/8	7-1/4
4	10	4.50 114	8	7/8	7-7/8
5	11	5.56 141	8	7/8	9-1/4
6	12-1/2	6.63 168	12	7/8	10-5/8
8	15	8.63 219	12	1	13
10	17-1/2	10.75 273	16	1-1/8	15-1/4
12	20-1/2	12.75 324	16	1-1/4	17-3/4
14	23	14.00 356	20	1-1/4	20-1/4
16	25-1/2	16.00 406	20	1-3/8	22-1/2
18	28	18.00 457	24	1-3/8	24-3/4
20	30-1/2	20.00 508	24	1-3/8	27
24	36	24.00 610	24	1-5/8	32

## Carbon and Stainless Steel Flanges - ASME/ANSI Class 400 Dimensions

ASME/ANSI B16.5-1996 Pipe Flanges and Flanged Fittings - Class 400 Flanges - outside and inside diameters, bolt circles, numbers and diameters of bolts for Weld neck, Threaded, Slip-on, Lap joint, Socket weld and Blind flanges.

Pipe Size (inches)	Flange Outside Diameter (inches)	Pipe Outside Diameter (inches) (mm)	Number of Bolt Holes	Bolt Hole Diameter (inches) <sup>1)</sup>	Bolt Circle (inches)
1/2	3-3/4	0.84 21.3	4	5/8	2-5/8
3/4	4-5/8	1.05 26.7	4	3/4	3-1/4
1	4-7/8	1.32 33.5	4	3/4	3-1/2
1-1/4	5-1/4	1.66 42.2	4	3/4	3-7/8
1-1/2	6-1/8	1.90 48.3	4	7/8	4-1/2
2	6-1/2	2.38 60.5	8	3/4	5
2-1/2	7-1/2	2.88 73.2	8	7/8	5-7/8
3	8-1/4	3.50 88.9	8	7/8	6-5/8
3-1/2	9	4.00 102	8	1	7-1/4
4	10	4.50 114	8	1	8-7/8
5	11	5.56 141	8	1	9-1/4
6	12-1/2	6.63 168	12	1	10-5/8
8	15	8.63 219	12	1-1/8	13
10	17-1/2	10.75 273	16	1-1/4	15-1/4
12	20-1/2	12.75 324	16	1-3/8	17-3/4
14	23	14.00 356	20	1-3/8	20-1/4
16	25-1/2	16.00 406	20	1-1/2	22-1/2
18	28	18.00 457	24	1-1/2	24-3/4
20	30-1/2	20.00 508	24	1-5/8	27
24	36	24.00 610	24	1-7/8	32

## Carbon and Stainless Steel Flanges - ASME/ANSI Class 600 Dimensions

ASME/ANSI B16.5-1996 Pipe Flanges and Flanged Fittings - Class 600 Flanges - outside and inside diameters, bolt circles, numbers and diameters of bolts for Weld neck, Threaded, Slip-on, Lap joint, Socket weld and Blind flanges.

Pipe Size (inches)	Flange Outside Diameter (inches)	Pipe Outside Diameter (inches) (mm)	Number of Bolt Holes	Bolt Hole Diameter (inches) <sup>1)</sup>	Bolt Circle (inches)
1/2	3-3/4	0.84 21.3	4	5/8	2-5/8
3/4	4-5/8	1.05 26.7	4	3/4	3-1/4
1	4-7/8	1.32 33.5	4	3/4	3-1/2
1-1/4	5-1/4	1.66 42.2	4	3/4	3-7/8
1-1/2	6-1/8	1.90 48.3	4	7/8	4-1/2
2	6-1/2	2.38 60.5	8	3/4	5
2-1/2	7-1/2	2.88 73.2	8	7/8	5-7/8
3	8-1/4	3.50 88.9	8	7/8	6-5/8
3-1/2	9	4.00 102	8	1	7-1/4
4	10-3/4	4.50 114	8	1	8-1/2
5	13	5.56 141	8	1-1/4	10-1/2
6	14	6.63 168	12	1-1/4	11-1/2
8	16-1/2	8.63 219	12	1-1/4	13-3/4
10	20	10.75 273	16	1-3/8	17
12	22	12.75 324	20	1-3/8	19-1/4
14	23-3/4	14.00 356	20	1-1/2	20-3/4
16	27	16.00 406	20	1-5/8	23-3/4
18	29-1/4	18.00 457	20	1-3/4	25-3/4
20	32	20.00 508	24	1-3/4	28-1/2
24	37	24.00 610	24	2	33

## Carbon and Stainless Steel Flanges - ASME/ANSI Class 900 Dimensions

ASME/ANSI B16.5-1996 Pipe Flanges and Flanged Fittings - Class 900 Flanges - outside and inside diameters, bolt circles, numbers and diameters of bolts for Weld neck, Threaded, Slip-on, Lap joint, Socket weld and Blind flanges.

Pipe Size (inches)	Flange Outside Diameter (inches)	Pipe Outside Diameter (inches) (mm)	Number of Bolt Holes	Bolt Hole Diameter (inches) <sup>1)</sup>	Bolt Circle (inches)
1/2	4-3/4	0.84 21.3	4	7/8	3-1/4
3/4	5-1/8	1.05 26.7	4	7/8	3-1/2
1	5-7/8	1.32 33.5	4	1	4
1-1/4	6-1/4	1.66 42.2	4	1	4-3/8
1-1/2	7	1.90 48.3	4	1-1/8	4-7/8
2	8-1/2	2.38 60.5	8	1	6-1/2
2-1/2	9-5/8	2.88 73.2	8	1-1/8	7-1/2
3	9-1/2	3.50 88.9	8	1-1/8	7-1/2
4	11-1/2	4.50 114	8	1-1/4	9-1/4
5	13-3/4	5.56 141	8	1-3/8	11
6	15	6.63 168	12	1-1/4	12-1/2
8	18-1/2	8.63 219	12	1-1/2	15-1/2
10	21-1/2	10.75 273	16	1-1/2	18-1/2
12	24	12.75 324	20	1-1/2	21
14	25-1/4	14.00 356	20	1-5/8	22
16	27-3/4	16.00 406	20	1-3/4	24-1/4
18	31	18.00 457	20	2	27
20	33-3/4	20.00 508	20	2-1/8	29-1/2
24	41	24.00 610	20	2-5/8	35-1/2
ANSI B16.5 covers only sizes through 24"					
26	42 3/4		20	2 7/8	37 1/2
28	46		20	3 1/8	40 1/4
30	48 1/2		20	3 1/8	42 3/4
32	51 3/4		20	3 3/8	45 1/2
34	55		20	3 5/8	48 1/4
36	57 1/2		20	3 5/8	50 3/4

## Carbon and Stainless Steel Flanges - ASME/ANSI Class 1500 Dimensions

ASME/ANSI B16.5-1996 Pipe Flanges and Flanged Fittings - Class 1500 Flanges - outside and inside diameters, bolt circles, numbers and diameters of bolts for Weld neck, Threaded, Slip-on, Lap joint, Socket weld and Blind flanges.

Pipe Size (inches)	Flange Outside Diameter (inches)	Pipe Outside Diameter (inches) (mm)	Number of Bolt Holes	Bolt Hole Diameter (inches) <sup>1)</sup>	Bolt Circle (inches)
1/2	4-3/4	0.84 21.3	4	7/8	3-1/4
3/4	5-1/8	1.05 26.7	4	7/8	3-1/2
1	5-7/8	1.32 33.5	4	1	4
1-1/4	6-1/4	1.66 42.2	4	1	4-3/8
1-1/2	7	1.90 48.3	4	1-1/8	4-7/8
2	8-1/2	2.38 60.5	8	1	6-1/2
2-1/2	9-5/8	2.88 73.2	8	1-1/8	7-1/2
3	10-1/2	3.50 88.9	8	1-1/4	8
4	12-1/4	4.50 114	8	1-3/8	9-1/2
5	14-3/4	5.56 141	8	1-5/8	11-1/2
6	15-1/2	6.63 168	12	1-1/2	12-1/2
8	19	8.63 219	12	1-3/4	15-1/2
10	23	10.75 273	12	2	19
12	26-1/2	12.75 324	16	2-1/8	22-1/2
14	29-1/2	14.00 356	16	2-3/8	25
16	32-1/2	16.00 406	16	2-5/8	27-3/4
18	36	18.00 457	16	2-7/8	30-1/2
20	38-3/4	20.00 508	16	3-1/8	32-3/4
24	46	24.00 610	16	3-5/8	39

## Carbon and Stainless Steel Flanges - ASME/ANSI Class 2500 Dimensions

ASME/ANSI B16.5-1996 Pipe Flanges and Flanged Fittings - Class 2500 Flanges - outside and inside diameters, bolt circles, numbers and diameters of bolts for Weld neck, Threaded, Slip-on, Lap joint, Socket weld and Blind flanges.

Pipe Size (inches)	Flange Outside Diameter (inches)	Pipe Outside Diameter (inches) (mm)	Number of Bolt Holes	Bolt Hole Diameter (inches) <sup>1)</sup>	Bolt Circle (inches)
1/2	5-1/4	0.84 21.3	4	7/8	3-1/2
3/4	5-1/2	1.05 26.7	4	7/8	3-3/4
1	6-1/4	1.32 33.5	4	1	4-1/4
1-1/4	7-1/4	1.66 42.2	4	1-1/8	5-1/8
1-1/2	8	1.90 48.3	4	1-1/4	5-3/4
2	9-1/4	2.38 60.5	8	1-1/8	6-3/4
2-1/2	10-1/2	2.88 73.2	8	1-1/4	7-3/4
3	12	3.50 88.9	8	1-3/8	9
4	14	4.50 114	8	1-5/8	10-3/4
5	16-1/2	5.56 141	8	1-7/8	12-3/4
6	19	6.63 168	8	2-1/8	14-1/2
8	21-3/4	8.63 219	12	2-1/8	17-1/4
10	26-1/2	10.75 273	12	2-5/8	21-1/4
12	30	12.75 324	12	2-7/8	24-3/8