



Flange Dimensions Chart PDF

Flange Dimensions Table (150 LBS)

Nominal Pipe Size	Outer Diameter of Pipe (mm)	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
1/2"	21.3	95.3	66.7	4	12.7	4.8
3/4"	26.7	101.6	73.0	4	12.7	4.8
1"	33.4	114.3	82.6	4	12.7	4.8
1 1/4"	42.2	120.7	87.6	4	12.7	6.4
1 1/2"	48.3	133.4	98.4	4	12.7	6.4
2"	60.3	152.4	114.3	4	15.9	7.9
2 1/2"	73.0	165.1	127.0	4	15.9	7.9
3"	88.9	184.2	146.1	4	15.9	9.5
3 1/2"	101.6	203.2	165.1	4	15.9	9.5
4"	114.3	215.9	177.8	4	15.9	9.5
5"	141.3	254.0	209.6	8	15.9	12.7
6"	168.3	279.4	228.6	8	15.9	12.7
7"	190.5	304.8	260.4	8	15.9	12.7
8"	219.1	336.6	292.1	8	15.9	12.7
10"	273.0	406.4	355.6	8	19.1	15.9
12"	323.9	457.2	406.4	12	19.1	15.9
14"	355.6	527.1	469.9	12	22.2	19.1
16"	406.4	577.9	520.7	12	22.2	19.1
18"	457.2	641.4	584.2	12	22.2	22.2
20"	508.0	704.9	641.4	16	22.5	25.4
24"	609.6	825.5	755.7	16	25.4	28.6

Flange Dimensions Table (300 LBS)

Nominal Pipe Size	Outer Diameter of Pipe (mm)	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
1/2"	21.3	88.9	60.3	4	15.9	11.1
3/4"	26.7	98.4	69.8	4	15.9	11.1
1"	33.4	114.3	79.4	4	19.0	12.7
1 1/4"	42.2	127.0	88.9	4	19.0	15.9
1 1/2"	48.3	139.7	98.4	4	19.0	15.9
2"	60.3	165.1	120.6	4	19.0	19.1
2 1/2"	73.0	190.5	146.1	8	19.0	19.1
3"	88.9	203.2	165.1	8	19.0	22.2
4"	114.3	228.6	190.5	8	22.2	22.2
5"	141.3	279.4	234.9	8	22.2	25.4
6"	168.3	304.8	260.4	12	22.2	25.4
8"	219.1	368.3	311.2	12	22.2	28.6
10"	273.0	419.1	381.0	16	25.4	34.9
12"	323.9	482.6	447.7	16	25.4	38.1
16"	406.4	635.0	596.9	20	28.6	47.6



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Nominal Pipe Size	Outer Diameter of Pipe (mm)	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
24"	609.6	914.4	838.2	24	31.8	57.2

Flange Dimensions Table (BS-10 Table D)

Nominal Pipe Size	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
1/2"	95.3	66.7	4	12.7	6.4
3/4"	101.6	73.0	4	12.7	6.4
1"	114.3	82.6	4	12.7	7.1
1 1/4"	120.7	87.3	4	12.7	7.9
1 1/2"	133.4	98.4	4	12.7	8.7
2"	152.4	114.3	4	15.9	9.5
2 1/2"	165.1	127.0	4	15.9	10.3
3"	184.2	146.1	4	15.9	11.1
3 1/2"	203.2	165.1	8	15.9	11.9
4"	215.9	177.8	8	15.9	12.7
5"	254.0	209.6	8	15.9	14.3
6"	279.4	228.6	8	19.1	17.5
7"	304.8	260.4	8	19.1	19.1
8"	336.6	292.1	8	19.1	19.1
9"	368.3	323.9	12	19.1	20.6
10"	406.4	355.6	12	19.1	22.2
12"	457.2	406.4	12	22.2	25.4
14"	527.2	469.9	12	22.2	25.4
16"	577.9	520.7	12	22.2	25.4
18"	641.4	584.2	16	22.2	28.6
20"	704.9	647.4	16	22.2	31.8
24"	825.5	755.7	16	25.4	38.1

Flange Dimensions Table (BS-10 Table E)

Nominal Pipe Size	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
1/2"	114.3	82.6	4	15.9	12.7
3/4"	114.3	82.6	4	15.9	12.7
1"	120.7	87.3	4	15.9	14.3
1 1/4"	133.4	98.4	4	15.9	17.5
1 1/2"	139.7	104.8	4	15.9	17.5
2"	165.1	127.0	4	15.9	19.1
2 1/2"	184.2	146.1	8	15.9	19.1
3"	203.2	165.1	8	15.9	22.2
3 1/2"	215.9	177.8	8	15.9	22.2
4"	228.6	190.5	8	15.9	25.4
5"	279.4	235.0	8	19.1	28.6
6"	304.8	260.4	12	19.1	28.6



Flange Dimensions Chart PDF

Nominal Pipe Size	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
7"	336.6	292.1	12	19.1	31.8
8"	368.3	323.9	12	19.1	31.8
9"	406.4	355.6	12	22.2	34.9
10"	431.8	381.0	12	22.2	34.9
12"	489.0	438.2	16	22.2	38.1
14"	552.5	495.3	16	25.4	41.3
16"	609.6	552.5	20	25.4	44.5
18"	673.1	609.6	20	28.6	47.6
20"	736.6	673.1	24	28.6	50.8
24"	850.9	781.1	24	31.8	57.2

These tables represent BS-10 Table D and Table E. I'll provide BS-10 Table F and Table H in the next set. Stay tuned!

Flange Dimensions Table (BS-10 Table F)

Nominal Pipe Size	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
1/2"	120.7	87.3	4	15.9	7.9
3/4"	127.0	92.1	4	15.9	7.9
1"	133.4	98.4	4	15.9	9.5
1 1/4"	139.7	104.8	4	15.9	12.7
1 1/2"	152.4	120.6	4	15.9	12.7
2"	165.1	130.2	4	15.9	15.9
2 1/2"	190.5	149.6	8	15.9	15.9
3"	203.2	168.3	8	15.9	19.1
3 1/2"	215.9	190.5	8	15.9	19.1
4"	241.3	201.9	8	19.1	22.2
5"	292.1	254.0	8	19.1	27.0
6"	317.5	292.1	12	19.1	27.0
7"	342.9	317.5	12	19.1	30.2
8"	368.3	339.7	12	19.1	30.2
9"	406.4	387.3	12	22.2	31.8
10"	431.8	412.7	12	22.2	31.8



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Nominal Pipe Size	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
12"	489.0	477.1	16	22.2	38.1
14"	552.5	533.4	16	25.4	41.3
16"	609.6	596.9	20	25.4	44.5
18"	673.1	647.7	20	28.6	47.6
20"	736.6	709.6	24	28.6	50.8
24"	850.9	830.1	24	31.8	57.2

Flange Dimensions Table (BS-10 Table H)

Nominal Pipe Size	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
1/2"	127.0	92.1	4	15.9	12.7
3/4"	133.4	98.4	4	15.9	12.7
1"	139.7	104.8	4	15.9	14.3
1 1/4"	152.4	117.5	4	15.9	17.5
1 1/2"	165.1	127.0	4	15.9	17.5
2"	190.5	149.6	4	15.9	20.6
2 1/2"	203.2	171.4	8	15.9	22.2
3"	241.3	203.2	8	19.1	25.4
3 1/2"	266.7	228.6	8	19.1	28.6
4"	292.1	247.7	8	19.1	30.2
5"	342.9	292.1	8	22.2	35.0
6"	368.3	317.5	12	22.2	38.1
7"	393.7	342.9	12	22.2	41.3
8"	419.1	368.3	12	22.2	44.5
9"	469.9	419.1	12	25.4	47.6
10"	514.3	457.2	12	25.4	50.8
12"	571.5	514.3	16	25.4	57.2
14"	635.0	582.1	16	28.6	61.9
16"	698.5	646.2	20	28.6	66.7



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Nominal Pipe Size	Flange Diameter (mm)	Bolt Circle Diameter (mm)	Number of Bolts	Diameter of Bolts (mm)	Flange Thickness (mm)
18"	749.3	709.6	20	31.8	71.4
20"	812.8	774.7	24	31.8	76.2
24"	933.5	895.4	24	35.0	88.9

Additional Details and Notes:

- **Material and Standards:** All provided flange dimensions are based on BS-10 and ANSI B16.5 standards, aligning with common industrial needs for different pressure ratings and applications.
- **Dimensional Tolerances:** Manufacturing tolerances should meet the standard requirements of $\pm 1.5\%$ for reliable fitting functionality.
- **Raised Face Inclusion:** Dimensions account for raised face thickness where applicable, typically 1.6 mm, except for flat face flanges.
- **Hub and Bore Details:** For slip-on, welding neck, and blind flanges, bore specifications and hub lengths should adhere to specific application-related tolerances.

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