

# ANSI Flange Dimensions

## ANSI Class 150

Nominal Pipe Size	1/2	3/4	1	1-1/2	2	2-1/2	3	4	6	8	10
Flange diameter	3.50	3.88	4.25	5.00	6.00	7.00	7.50	9.00	11.00	13.50	16.00
Raised face diameter	1.38	1.69	2.00	2.88	3.62	4.12	5.00	6.19	8.50	10.62	12.75
Flange thickness, min.	0.44	0.50	0.56	0.69	0.75	0.88	0.94	0.94	1.00	1.12	1.19
Bolt circle diameter	2.38	2.75	3.12	3.88	4.75	5.50	6.00	7.50	9.50	11.75	14.25
Number of bolts	4	4	4	4	4	4	4	8	8	8	12
Bolt hole diameter	0.62	0.62	0.62	0.62	0.75	0.75	0.75	0.75	0.88	0.88	1.00

## ANSI Class 300

Nominal Pipe Size	1/2	3/4	1	1-1/2	2	2-1/2	3	4	6	8	10
Flange diameter	3.75	4.62	4.88	6.12	6.50	7.50	8.25	10.00	12.50	15.00	17.50
Raised face diameter	1.38	1.69	2.00	2.88	3.62	4.12	5.00	6.19	8.50	10.62	12.75
Flange thickness, min.	0.56	0.62	0.69	0.81	0.88	1.00	1.12	1.25	1.44	1.62	1.88
Bolt circle diameter	2.62	3.25	3.50	4.50	5.00	5.88	6.62	7.88	10.62	13.00	15.25
Number of bolts	4	4	4	4	8	8	8	8	12	12	16
Bolt hole diameter	0.62	0.75	0.75	0.88	0.75	0.88	0.88	0.88	0.88	1.00	1.12

## ANSI Class 600

Nominal Pipe Size	1/2	3/4	1	1-1/2	2	2-1/2	3	4	6	8	10
Flange diameter	3.75	4.62	4.88	6.12	6.50	7.50	8.25	10.75	14.00	16.50	20.00
Raised face diameter	1.38	1.69	2.00	2.88	3.62	4.12	5.00	6.19	8.50	10.62	12.75
Flange thickness, min.	0.56	0.62	0.69	0.88	1.00	1.12	1.25	1.50	1.88	2.19	2.50
Bolt circle diameter	2.62	3.25	3.50	4.50	5.00	5.88	6.62	8.50	11.50	13.75	17.00
Number of bolts	4	4	4	4	8	8	8	8	12	12	16
Bolt hole diameter	0.62	0.75	0.75	0.88	0.75	0.88	0.88	1.00	1.12	1.25	1.38

## ANSI Class 900

Nominal Pipe Size	1/2	3/4	1	1-1/2	2	2-1/2	3	4	6	8	10
Flange diameter	4.75	5.12	5.88	7.00	8.50	9.62	9.50	11.50	15.00	18.50	21.50
Raised face diameter	1.38	1.69	2.00	2.88	3.62	4.12	5.00	6.19	8.50	10.62	12.75
Flange thickness, min.	0.88	1.00	1.12	1.25	1.50	1.62	1.50	1.75	2.19	2.50	2.75
Bolt circle diameter	3.25	3.50	4.00	4.88	6.50	7.50	7.50	9.25	12.50	15.50	18.50
Number of bolts	4	4	4	4	8	8	8	8	12	12	16
Bolt hole diameter	0.88	0.88	1.00	1.12	1.00	1.12	1.00	1.25	1.25	1.50	1.50

## ANSI Class 1500

Nominal Pipe Size	1/2	3/4	1	1-1/2	2	2-1/2	3	4	6	8	10
Flange diameter	4.75	5.12	5.88	7.00	8.50	9.62	10.50	12.25	15.50	19.00	23.00
Raised face diameter	1.38	1.69	2.00	2.88	3.62	4.12	5.00	6.19	8.50	10.62	12.75
Flange thickness, min.	0.88	1.00	1.12	1.25	1.50	1.62	1.88	2.12	3.25	3.62	4.25
Bolt circle diameter	3.25	3.50	4.00	4.88	6.50	7.50	8.00	9.50	12.50	15.50	19.00
Number of bolts	4	4	4	4	8	8	8	8	12	12	12
Bolt hole diameter	0.88	0.88	1.00	1.12	1.00	1.12	1.25	1.38	1.50	1.75	2.00

## ANSI Class 2500

Nominal Pipe Size	1/2	3/4	1	1-1/2	2	2-1/2	3	4	6	8	10
Flange diameter	5.25	5.50	6.25	8.00	9.25	10.50	12.00	14.00	19.00	21.75	26.50
Raised face diameter	1.38	1.69	2.00	2.88	3.62	4.12	5.00	6.19	8.50	10.62	12.75
Flange thickness, min.	1.19	1.25	1.38	1.75	2.00	2.25	2.62	3.00	4.25	5.00	6.50
Bolt circle diameter	3.50	3.75	4.25	5.75	6.75	7.75	9.00	10.75	14.50	17.25	21.25
Number of bolts	4	4	4	4	8	8	8	8	8	12	12
Bolt hole diameter	0.88	0.88	1.00	1.25	1.12	1.25	1.38	1.62	2.12	2.12	2.62

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