Prime Steel
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ANSI/ASME B16.5 FLANGE

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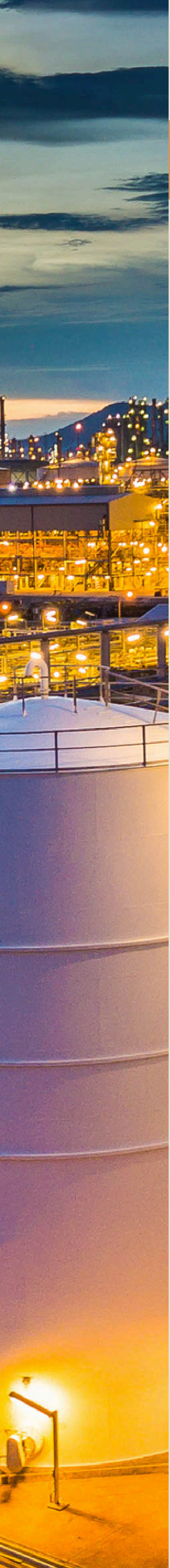

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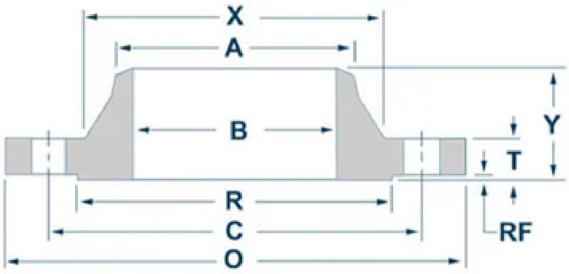
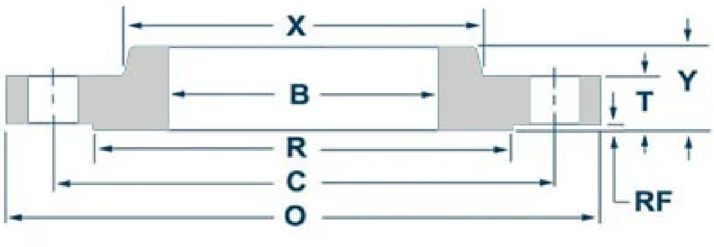
ANSI / ASME B16.5 Class 150 Weld Neck Flange Dimensions



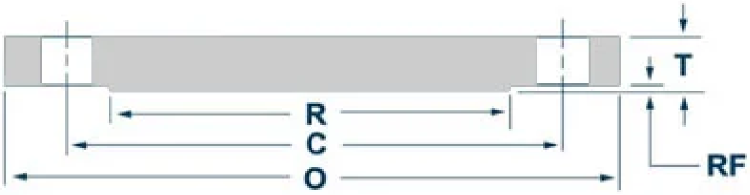
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Point Of Weld (A)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.50	0.44	1.38	1.88	0.84	1.19	0.62	2	2.38	4	0.63
3/4	3.88	0.50	1.69	2.06	1.05	1.50	0.82	2	2.75	4	0.63
1	4.25	0.56	2.00	2.19	1.32	1.94	1.05	3	3.13	4	0.63
1 1/4	4.63	0.63	2.50	2.25	1.66	2.31	1.38	3	3.50	4	0.63
1 1/2	5.00	0.69	2.88	2.44	1.90	2.56	1.61	4	3.88	4	0.63
2	6.00	0.75	3.63	2.50	2.38	3.06	2.07	6	4.75	4	0.75
2 1/2	7.00	0.88	4.13	2.75	2.88	3.56	2.47	8	5.50	4	0.75
3	7.50	0.94	5.00	2.75	3.50	4.25	3.07	10	6.00	4	0.75
3 1/2	8.50	0.94	5.50	2.81	4.00	4.81	3.55	12	7.00	8	0.75
4	9.00	0.94	6.19	3.00	4.50	5.31	4.03	15	7.50	8	0.75
5	10.00	0.94	7.31	3.50	5.56	6.44	5.05	19	8.50	8	0.88
6	11.00	1.00	8.50	3.50	6.63	7.56	6.07	24	9.50	8	0.88
8	13.50	1.13	10.63	4.00	8.63	9.69	7.98	39	11.75	8	0.88
10	16.00	1.19	12.75	4.00	10.75	12.00	10.02	52	14.25	12	1.00
12	19.00	1.25	15.00	4.50	12.75	14.38	12.00	80	17.00	12	1.00
14	21.00	1.38	16.25	5.00	14.00	15.75	13.25	110	18.75	12	1.13
16	23.50	1.44	18.50	5.00	16.00	18.00	15.25	140	21.25	16	1.13
18	25.00	1.56	21.00	5.50	18.00	19.88	17.25	150	22.75	16	1.25
20	27.50	1.69	23.00	5.69	20.00	22.00	19.25	180	25.00	20	1.25
22	29.50	1.81	25.25	5.88	22.00	24.25	21.25	225	27.25	20	1.38
24	32.00	1.88	27.25	6.00	24.00	26.13	23.25	260	29.50	20	1.38

ANSI / ASME B16.5 Class 150 Slip On Flange Dimensions



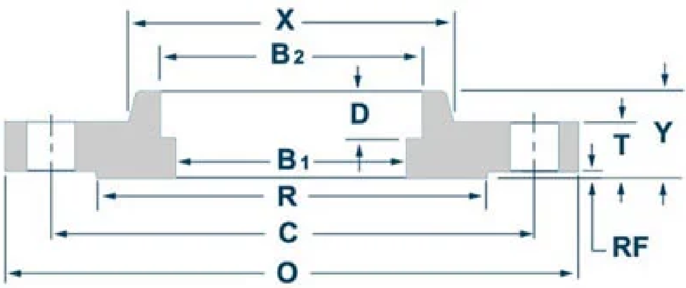
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.50	0.44	1.38	0.63	1.19	0.88	1	2.38	4	0.63
3/4	3.88	0.50	1.69	0.63	1.50	1.09	2	2.75	4	0.63
1	4.25	0.56	2.00	0.69	1.94	1.36	2	3.13	4	0.63
1 1/4	4.63	0.63	2.50	0.81	2.31	1.70	3	3.50	4	0.63
1 1/2	5.00	0.69	2.88	0.88	2.56	1.95	3	3.88	4	0.63
2	6.00	0.75	3.63	1.00	3.06	2.44	5	4.75	4	0.75
2 1/2	7.00	0.88	4.13	1.13	3.56	2.94	7	5.50	4	0.75
3	7.50	0.94	5.00	1.19	4.25	3.57	8	6.00	4	0.75
3 1/2	8.50	0.94	5.50	1.25	4.81	4.07	11	7.00	8	0.75
4	9.00	0.94	6.19	1.31	5.31	4.57	13	7.50	8	0.75
5	10.00	0.94	7.31	1.44	6.44	5.66	15	8.50	8	0.88
6	11.00	1.00	8.50	1.56	7.56	6.72	19	9.50	8	0.88
8	13.50	1.13	10.63	1.75	9.69	8.72	30	11.75	8	0.88
10	16.00	1.19	12.75	1.94	12.00	10.88	43	14.25	12	1.00
12	19.00	1.25	15.00	2.19	14.38	12.088	64	17.00	12	1.00
14	21.00	1.38	16.25	2.25	15.75	14.14	90	18.75	12	1.13
16	23.50	1.44	18.50	2.50	18.00	16.16	98	21.25	16	1.13
18	25.00	1.56	21.00	2.69	19.88	18.18	130	22.75	16	1.25
20	27.50	1.69	23.00	2.88	22.00	20.20	165	25.00	20	1.25
22	29.50	1.81	25.25	3.13	24.25	22.22	185	27.25	20	1.38
24	32.00	1.88	27.25	3.25	26.13	24.25	220	29.50	20	1.38

ANSI / ASME B16.5 Class 150 Blind Flange Dimensions



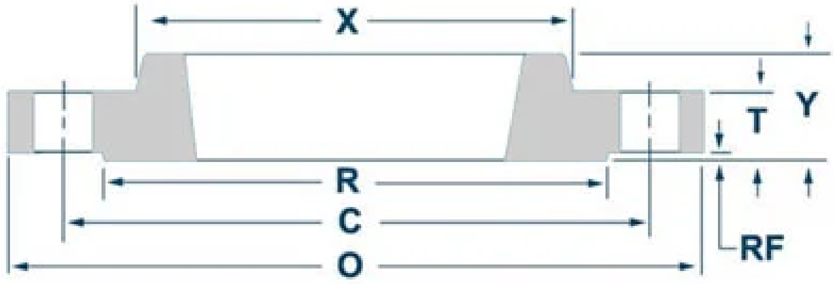
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.50	0.44	1.38	1	2.38	4	0.63
3/4	3.88	0.50	1.69	2	2.75	4	0.63
1	4.25	0.56	2.00	2	3.13	4	0.63
1 1/4	4.63	0.63	2.50	3	3.50	4	0.63
1 1/2	5.00	0.69	2.88	4	3.88	4	0.63
2	6.00	0.75	3.63	5	4.75	4	0.75
2 1/2	7.00	0.88	4.13	7	5.50	4	0.75
3	7.50	0.94	5.00	9	6.00	4	0.75
3 1/2	8.50	0.94	5.50	13	7.00	8	0.75
4	9.00	0.94	6.19	17	7.50	8	0.75
5	10.00	0.94	7.31	20	8.50	8	0.88
6	11.00	1.00	8.50	26	9.50	8	0.88
8	13.50	1.13	10.63	45	11.75	8	0.88
10	16.00	1.19	12.75	70	14.25	12	1.00
12	19.00	1.25	15.00	110	17.00	12	1.00
14	21.00	1.38	16.25	140	18.75	12	1.13
16	23.50	1.44	18.50	180	21.25	16	1.13
18	25.00	1.56	21.00	220	22.75	16	1.25
20	27.50	1.69	23.00	285	25.00	20	1.25
22	29.50	1.81	25.25	355	27.25	20	1.38
24	32.00	1.88	27.25	430	29.50	20	1.38

ANSI / ASME B16.5 Class 150 Socket-Weld Flange Dimensions



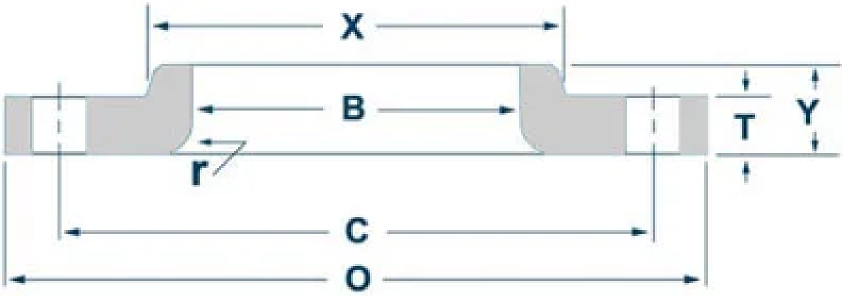
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B1)	Bore (B2)	Depth Of Socket(D)	Approximate Weight (Lbs)	Bolt Circle (C)
1/2	3.50	0.44	1.38	0.63	1.19	0.62	0.88	0.38	1	2.38
3/4	3.88	0.50	1.69	0.63	1.50	0.82	1.09	0.44	2	2.75
1	4.25	0.56	2.00	0.69	1.94	1.05	1.36	0.50	2	3.13
1 1/4	4.63	0.63	2.50	0.81	2.31	1.38	1.70	0.56	3	3.50
1 1/2	5.00	0.69	2.88	0.88	2.56	1.61	1.95	0.63	3	3.88
2	6.00	0.75	3.63	1.00	3.06	2.07	2.44	0.69	5	4.75
2 1/2	7.00	0.88	4.13	1.13	3.56	2.47	2.94	0.75	7	5.50
3	7.50	0.94	5.00	1.19	4.25	3.07	3.57	0.81	8	6.00
3 1/2	8.50	0.94	5.50	1.25	4.81	3.55	4.07	0.88	11	7.00
4	9.00	0.94	6.19	1.31	5.31	4.03	4.57	0.94	13	7.50
5	10.00	0.94	7.31	1.44	6.44	5.05	5.66	0.94	15	8.50
6	11.00	1.00	8.50	1.56	7.56	6.07	6.72	1.06	19	9.50
8	13.50	1.13	10.63	1.75	9.69	7.98	8.72	1.25	30	11.75
10	16.00	1.19	12.75	1.94	12.00	10.02	10.88	1.31	43	14.25
12	19.00	1.25	15.00	2.19	14.38	12.00	12.088	1.56	64	17.00
14	21.00	1.38	16.25	2.25	15.75	13.25	14.14	1.63	90	18.75
16	23.50	1.44	18.50	2.50	18.00	15.25	16.16	1.75	98	21.25
18	25.00	1.56	21.00	2.69	19.88	17.25	18.18	1.94	130	22.75
20	27.50	1.69	23.00	2.88	22.00	19.25	20.20	2.13	165	25.00
22	29.50	1.81	25.25	3.13	24.25	21.25	22.22	2.38	185	27.25
24	32.00	1.88	27.25	3.25	26.13	23.25	24.25	2.50	220	29.50

ANSI / ASME B16.5 Class 150 Threaded Flange Dimensions



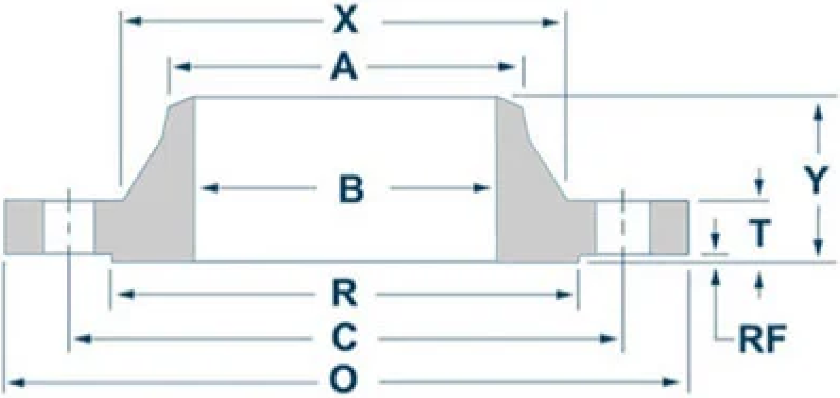
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.50	0.44	1.38	0.63	1.19	1	2.38	4	0.63
3/4	3.88	0.50	1.69	0.63	1.50	2	2.75	4	0.63
1	4.25	0.56	2.00	0.69	1.94	2	3.13	4	0.63
1 1/4	4.63	0.63	2.50	0.81	2.31	3	3.50	4	0.63
1 1/2	5.00	0.69	2.88	0.88	2.56	3	3.88	4	0.63
2	6.00	0.75	3.63	1.00	3.06	5	4.75	4	0.75
2 1/2	7.00	0.88	4.13	1.13	3.56	7	5.50	4	0.75
3	7.50	0.94	5.00	1.19	4.25	8	6.00	4	0.75
3 1/2	8.50	0.94	5.50	1.25	4.81	11	7.00	8	0.75
4	9.00	0.94	6.19	1.31	5.31	13	7.50	8	0.75
5	10.00	0.94	7.31	1.44	6.44	15	8.50	8	0.88
6	11.00	1.00	8.50	1.56	7.56	19	9.50	8	0.88
8	13.50	1.13	10.63	1.75	9.69	30	11.75	8	0.88
10	16.00	1.19	12.75	1.94	12.00	43	14.25	12	1.00
12	19.00	1.25	15.00	2.19	14.38	64	17.00	12	1.00
14	21.00	1.38	16.25	2.25	15.75	90	18.75	12	1.13
16	23.50	1.44	18.50	2.50	18.00	98	21.25	16	1.13
18	25.00	1.56	21.00	2.69	19.88	130	22.75	16	1.25
20	27.50	1.69	23.00	2.88	22.00	165	25.00	20	1.25
22	29.50	1.81	25.25	3.13	24.25	185	27.25	20	1.38
24	32.00	1.88	27.25	3.25	26.13	220	29.50	20	1.38

ANSI / ASME B16.5 Class 150 Lap Joint Flange Dimensions



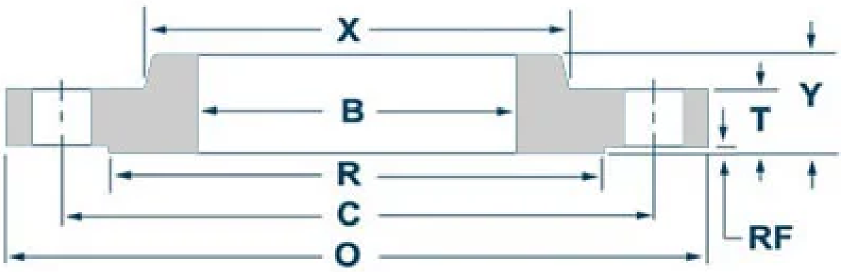
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Length Thru Hub (Y)	Hub Diameter (X)	Radius (B)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.50	0.44	0.63	1.19	0.13	0.90	1	2.38	4	0.63
3/4	3.88	0.50	0.63	1.50	0.13	1.11	2	2.75	4	0.63
1	4.25	0.56	0.69	1.94	0.13	1.38	2	3.13	4	0.63
1 1/4	4.63	0.63	0.81	2.31	0.19	1.72	3	3.50	4	0.63
1 1/2	5.00	0.69	0.88	2.56	0.25	1.97	3	3.88	4	0.63
2	6.00	0.75	1.00	3.06	0.31	2.46	5	4.75	4	0.75
2 1/2	7.00	0.88	1.13	3.56	0.31	2.97	7	5.50	4	0.75
3	7.50	0.94	1.19	4.25	0.38	3.60	8	6.00	4	0.75
3 1/2	8.50	0.94	1.25	4.81	0.38	4.10	11	7.00	8	0.75
4	9.00	0.94	1.31	5.31	0.44	4.60	13	7.50	8	0.75
5	10.00	0.94	1.44	6.44	0.44	5.69	15	8.50	8	0.88
6	11.00	1.00	1.56	7.56	0.50	6.75	19	9.50	8	0.88
8	13.50	1.13	1.75	9.69	0.50	8.75	30	11.75	8	0.88
10	16.00	1.19	1.94	12.00	0.50	10.92	43	14.25	12	1.00
12	19.00	1.25	2.19	14.38	0.50	12.92	64	17.00	12	1.00
14	21.00	1.38	3.13	15.75	0.50	14.18	105	18.75	12	1.13
16	23.50	1.44	3.44	18.00	0.50	16.19	140	21.25	16	1.13
18	25.00	1.56	2.88	19.88	0.50	18.2	160	22.75	16	1.25
20	27.50	1.69	4.06	22.00	0.50	20.25	195	25.00	20	1.25
22	29.50	1.81	4.25	24.25	0.50	22.25	245	27.25	20	1.38
24	32.00	1.88	4.38	26.13	0.50	24.25	275	29.50	20	1.38

ANSI / ASME B16.5 Class 300 Weld Neck Flange Dimensions



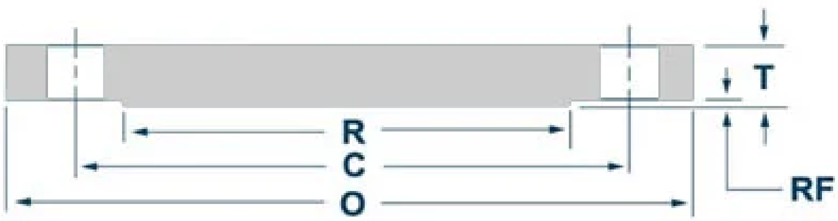
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Point Of Weld (A)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	2.06	0.84	1.50	0.62	2	2.63	4	0.63
3/4	4.63	0.63	1.69	2.25	1.05	1.88	0.82	3	3.25	4	0.75
1	4.88	0.69	2.00	2.44	1.32	2.13	1.05	4	3.50	4	0.75
1 1/4	5.25	0.75	2.50	2.56	1.66	2.50	1.38	5	3.88	4	0.75
1 1/2	6.13	0.81	2.88	2.69	1.90	2.75	1.61	7	4.50	4	0.88
2	6.50	0.88	3.63	2.75	2.38	3.31	2.07	9	5.00	8	0.75
2 1/2	7.50	1.00	4.13	3.00	2.88	3.94	2.47	12	5.88	8	0.88
3	8.25	1.13	5.00	3.13	3.50	4.63	3.07	15	6.63	8	0.88
3 1/2	9.00	1.19	5.50	3.19	4.00	5.25	3.55	18	7.25	8	0.88
4	10.00	1.25	6.19	3.38	4.50	5.75	4.03	25	7.88	8	0.88
5	11.00	1.38	7.31	3.88	5.56	7.00	5.05	32	9.25	8	0.88
6	12.50	1.44	8.50	3.88	6.63	8.13	6.07	42	10.63	12	0.88
8	15.00	1.63	10.63	4.38	8.63	10.25	7098	67	13.00	12	1.00
10	17.50	1.88	12.75	4.63	10.75	12.63	10.02	91	15.25	16	1.13
12	20.50	2.00	15.00	5.13	12.75	14.75	12.00	140	17.75	16	1.25
14	23.00	2.13	16.25	5.63	14.00	16.75	13.25	180	20.25	20	1.25
16	25.50	2.25	18.50	5.75	16.00	19.00	15.25	250	22.50	20	1.38
18	28.00	2.38	21.00	6.25	18.00	21.00	17.25	320	24.75	24	1.38
20	30.50	2.50	23.00	6.38	20.00	23.13	19.25	400	27.00	24	1.38
22	33.00	2.63	25.25	6.50	22.00	25.25	21.25	465	29.25	24	1.63
24	36.00	2.75	27.25	6.63	24.00	27.63	23.25	580	32.00	24	1.63

ANSI / ASME B16.5 Class 300 Slip On Flange Dimensions



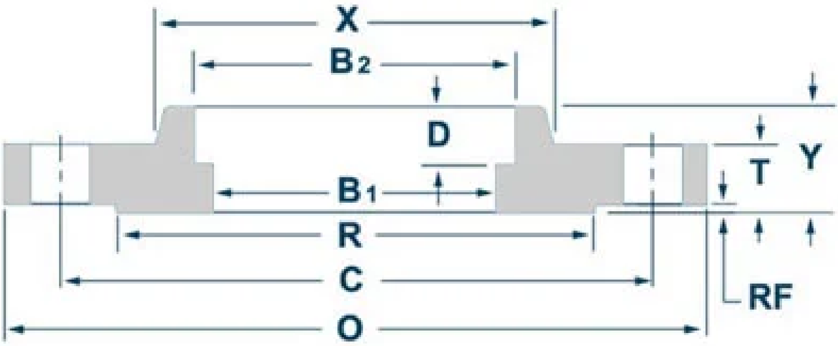
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	0.88	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	1.09	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	1.36	3	3.50	4	0.75
1 1/4	5.25	0.75	2.50	1.06	2.50	1.70	4	3.88	4	0.75
1 1/2	6.13	0.81	2.88	1.19	2.75	1.95	6	4.50	4	0.88
2	6.50	0.88	3.63	1.31	3.31	2.44	7	5.00	8	0.75
2 1/2	7.50	1.00	4.13	1.50	3.94	2.94	10	5.88	8	0.88
3	8.25	1.13	5.00	1.69	4.63	3.57	13	6.63	8	0.88
3 1/2	9.00	1.19	5.50	1.75	5.25	4.07	17	7.25	8	0.88
4	10.00	1.25	6.19	1.88	5.75	4.57	22	7.88	8	0.88
5	11.00	1.38	7.31	2.00	7.00	5.66	28	9.25	8	0.88
6	12.50	1.44	8.50	2.06	8.13	6.72	39	10.63	12	0.88
8	15.00	1.63	10.63	2.44	10.25	8.72	58	13.00	12	1.00
10	17.50	1.88	12.75	2.62	12.63	10.88	81	15.25	16	1.13
12	20.50	2.00	15.00	2.88	14.75	12.88	115	17.75	16	1.25
14	23.00	2.13	16.25	3.00	16.75	14.14	165	20.25	20	1.25
16	25.50	2.25	18.50	3.25	19.00	16.16	190	22.50	20	1.38
18	28.00	2.38	21.00	3.50	21.00	18.18	250	24.75	24	1.38
20	30.50	2.50	23.00	3.75	23.13	20.20	315	27.00	24	1.38
22	33.00	2.63	25.25	4.00	25.25	22.22	370	29.25	24	1.63
24	36.00	2.75	27.25	4.19	27.63	24.25	475	32.00	24	1.63

ANSI / ASME B16.5 Class 300 Blind Flange Dimensions



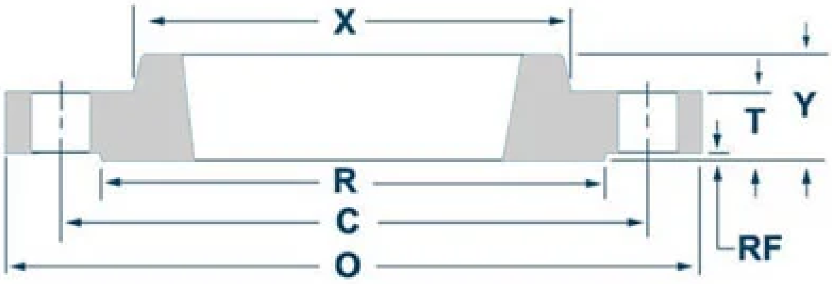
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	2	2.63	4	0.63
3/4	4.63	0.63	1.69	3	3.25	4	0.75
1	4.88	0.69	2.00	3	3.50	4	0.75
1 1/4	5.25	0.75	2.50	4	3.88	4	0.75
1 1/2	6.13	0.81	2.88	6	4.50	4	0.88
2	6.50	0.88	3.63	8	5.00	8	0.75
2 1/2	7.50	1.00	4.13	12	5.88	8	0.88
3	8.25	1.13	5.00	16	6.63	8	0.88
3 1/2	9.00	1.19	5.50	21	7.25	8	0.88
4	10.00	1.25	6.19	27	7.88	8	0.88
5	11.00	1.38	7.31	35	9.25	8	0.88
6	12.50	1.44	8.50	50	10.63	12	0.88
8	15.00	1.63	10.63	81	13.00	12	1.00
10	17.50	1.88	12.75	124	15.25	16	1.13
12	20.50	2.00	15.00	185	17.75	16	1.25
14	23.00	2.13	16.25	250	20.25	20	1.25
16	25.50	2.25	18.50	295	22.50	20	1.38
18	28.00	2.38	21.00	395	24.75	24	1.38
20	30.50	2.50	23.00	505	27.00	24	1.38
22	33.00	2.63	25.25	640	29.25	24	1.63
24	36.00	2.75	27.25	790	32.00	24	1.63

ANSI / ASME B16.5 Class 300 Socket-Weld Flange Dimensions



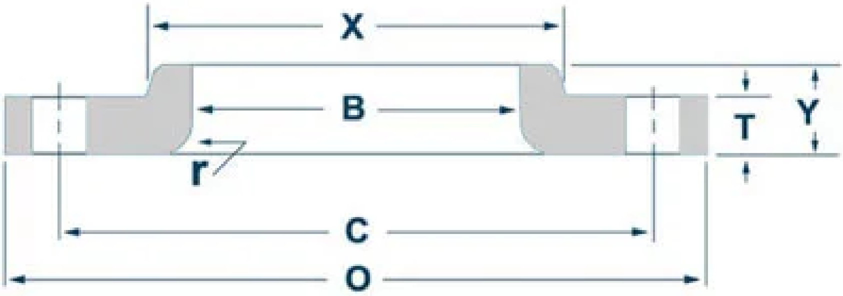
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B1)	Bore (B2)	Depth Of Socket (D)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	0.62	0.88	0.38	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	0.82	1.09	0.44	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	1.05	1.36	0.50	3	3.50	4	0.75
1 1/4	5.25	0.75	2.50	1.06	2.50	1.38	1.70	0.56	4	3.88	4	0.75
1 1/2	6.13	0.81	2.88	1.19	2.75	1.61	1.95	0.63	6	4.50	4	0.88
2	6.50	0.88	3.63	1.31	3.31	2.07	2.44	0.69	7	5.00	8	0.75
2 1/2	7.50	1.00	4.13	1.50	3.94	2.47	2.94	0.75	10	5.88	8	0.88
3	8.25	1.13	5.00	1.69	4.63	3.07	3.57	0.81	13	6.63	8	0.88

ANSI / ASME B16.5 Class 300 Threaded Flange Dimensions



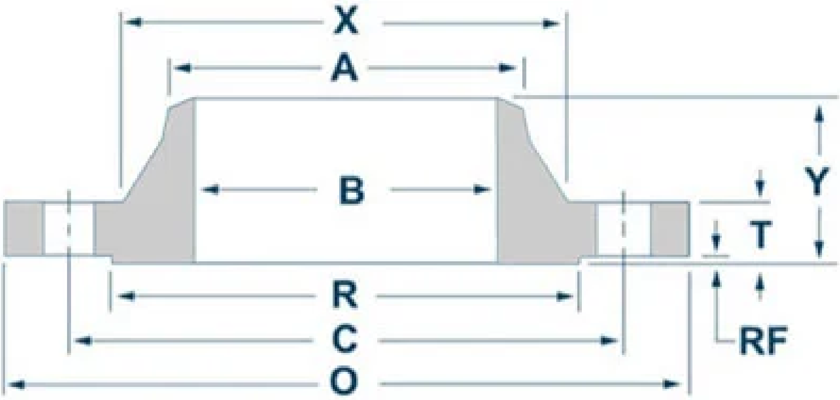
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	3	3.50	4	0.75
1 1/4	5.25	0.75	2.50	1.06	2.50	4	3.88	4	0.75
1 1/2	6.13	0.81	2.88	1.19	2.75	6	4.50	4	0.88
2	6.50	0.88	3.63	1.31	3.31	7	5.00	8	0.75
2 1/2	7.50	1.00	4.13	1.50	3.94	10	5.88	8	0.88
3	8.25	1.13	5.00	1.69	4.63	13	6.63	8	0.88
3 1/2	9.00	1.19	5.50	1.75	5.25	17	7.25	8	0.88
4	10.00	1.25	6.19	1.88	5.75	22	7.88	8	0.88
5	11.00	1.38	7.31	2.00	7.00	28	9.25	8	0.88
6	12.50	1.44	8.50	2.06	8.13	39	10.63	12	0.88
8	15.00	1.63	10.63	2.44	10.25	58	13.00	12	1.00
10	17.50	1.88	12.75	2.62	12.63	81	15.25	16	1.13
12	20.50	2.00	15.00	2.88	14.75	115	17.75	16	1.25
14	23.00	2.13	16.25	3.00	16.75	165	20.25	20	1.25
16	25.50	2.25	18.50	3.25	19.00	190	22.50	20	1.38
18	28.00	2.38	21.00	3.50	21.00	250	24.75	24	1.38
20	30.50	2.50	23.00	3.75	23.13	315	27.00	24	1.38
22	33.00	2.63	25.25	4.00	25.25	370	29.25	24	1.63
24	36.00	2.75	27.25	4.19	27.63	475	32.00	24	1.63

ANSI / ASME B16.5 Class 300 Lap Joint Flange Dimensions



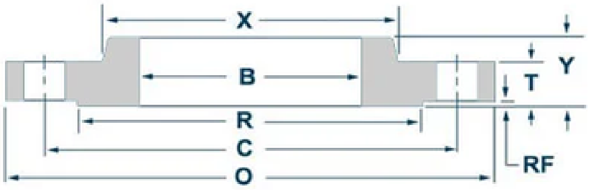
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Length Thru Hub (Y)	Hub Diameter (X)	Radius (R)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	0.88	1.50	0.13	0.90	2	2.63	4	0.63
3/4	4.63	0.63	1.00	1.88	0.13	1.11	3	3.25	4	0.75
1	4.88	0.69	1.06	2.13	0.13	1.38	3	3.50	4	0.75
1 1/4	5.25	0.75	1.06	2.50	0.19	1.72	4	3.88	4	0.75
1 1/2	6.13	0.81	1.19	2.75	0.25	1.97	6	4.50	4	0.88
2	6.50	0.88	1.31	3.31	0.31	2.46	7	5.00	8	0.75
2 1/2	7.50	1.00	1.50	3.94	0.31	2.97	10	5.88	8	0.88
3	8.25	1.13	1.69	4.63	0.38	3.60	13	6.63	8	0.88
3 1/2	9.00	1.19	1.75	5.25	0.44	4.10	17	7.25	8	0.88
4	10.00	1.25	1.88	5.75	0.44	4.60	22	7.88	8	0.88
5	11.00	1.38	2.00	7.00	0.44	5.69	28	9.25	8	0.88
6	12.50	1.44	2.06	8.13	0.50	6.75	39	10.63	12	0.88
8	15.00	1.63	2.44	10.25	0.50	8.75	58	13.00	12	1.00
10	17.50	1.88	3.75	12.63	0.50	10.92	91	15.25	16	1.13
12	20.50	2.00	4.00	14.75	0.50	12.92	140	17.75	16	1.25
14	23.00	2.13	4.38	16.75	0.50	14.18	190	20.25	20	1.25
16	25.50	2.25	4.75	19.00	0.50	16.19	250	22.50	20	1.38
18	28.00	2.38	5.13	21.00	0.50	18.20	295	24.75	24	1.38
20	30.50	2.50	5.50	23.13	0.50	20.25	370	27.00	24	1.38
22	33.00	2.63	5.75	25.25	0.50	22.25	435	29.25	24	1.63
24	36.00	2.75	6.00	27.63	0.50	24.25	550	32.00	24	1.63

ANSI / ASME B16.5 Class 400 Weld Neck Flange Dimensions



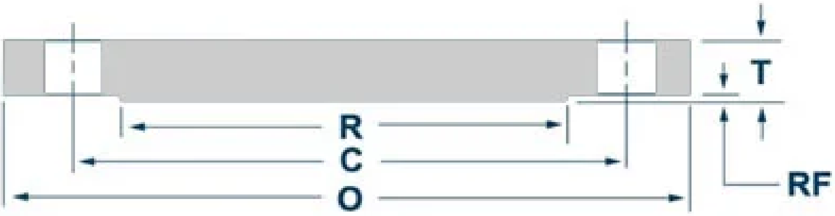
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	2.06	1.50	Specified By Purchaser	2	2.63	4	0.63
3/4	4.63	0.63	1.69	2.25	1.88	Specified By Purchaser	4	3.25	4	0.75
1	4.88	0.69	2.00	2.44	2.13	Specified By Purchaser	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	2.63	2.50	Specified By Purchaser	6	3.88	4	0.75
1 1/2	6.13	0.88	2.88	2.75	2.75	Specified By Purchaser	8	4.50	4	0.88
2	6.50	1.00	3.63	2.88	3.31	Specified By Purchaser	12	5.00	8	0.75
2 1/2	7.50	1.13	4.13	3.13	3.94	Specified By Purchaser	18	5.88	8	0.88
3	8.25	1.25	5.00	3.25	4.63	Specified By Purchaser	23	6.63	8	0.88
3 1/2	9.00	1.38	5.50	3.38	5.25	Specified By Purchaser	26	7.25	8	1.00
4	10.00	1.38	6.19	3.50	5.75	Specified By Purchaser	35	7.88	8	1.00
5	11.00	1.50	7.31	4.00	7.00	Specified By Purchaser	43	9.25	8	1.00
6	12.50	1.63	8.50	4.06	8.13	Specified By Purchaser	57	10.63	12	1.00
8	15.00	1.88	10.63	4.63	10.25	Specified By Purchaser	89	13.00	12	1.13
10	17.50	2.13	12.75	4.88	12.63	Specified By Purchaser	125	15.25	16	1.25
12	20.50	2.25	15.00	5.38	14.75	Specified By Purchaser	175	17.75	16	1.38
14	23.00	2.38	16.25	5.88	16.75	Specified By Purchaser	230	20.25	20	1.38
16	25.50	2.50	18.50	6.00	19.00	Specified By Purchaser	295	22.50	20	1.50
18	28.00	2.63	21.00	6.50	21.00	Specified By Purchaser	350	24.75	24	1.50
20	30.50	2.75	23.00	6.63	23.13	Specified By Purchaser	425	27.00	24	1.63
22	33.00	2.88	25.25	6.75	25.25	Specified By Purchaser	505	29.25	24	1.75
24	36.00	3.00	27.25	6.88	27.63	Specified By Purchaser	620	32.00	24	1.88

ANSI / ASME B16.5 Class 400 Slip On Flange Dimensions



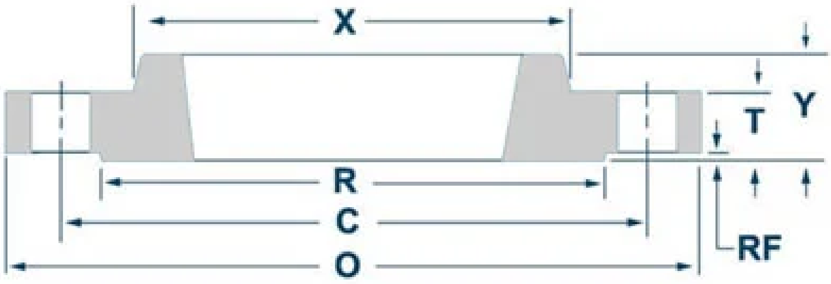
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	0.88	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	1.09	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	1.36	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	1.13	2.50	1.70	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	1.25	2.75	1.95	7	4.50	4	0.88
2	6.50	1.00	3.63	1.44	3.31	2.44	9	5.00	8	0.75
2 1/2	7.50	1.13	4.13	1.63	3.94	2.94	13	5.88	8	0.88
3	8.25	1.25	5.00	1.81	4.63	3.57	16	6.63	8	0.88
3 1/2	9.00	1.38	5.50	1.94	5.25	4.07	21	7.25	8	1.00
4	10.00	1.38	6.19	2.00	5.75	4.57	26	7.88	8	1.00
5	11.00	1.50	7.31	2.13	7.00	5.66	31	9.25	8	1.00
6	12.50	1.63	8.50	2.25	8.13	6.72	44	10.63	12	1.00
8	15.00	1.88	10.63	2.69	10.25	8.72	67	13.00	12	1.13
10	17.50	2.13	12.75	2.88	12.63	10.88	91	15.25	16	1.25
12	20.50	2.25	15.00	3.13	14.75	12.88	130	17.75	16	1.38
14	23.00	2.38	16.25	3.31	16.75	14.14	180	20.25	20	1.38
16	25.50	2.50	18.50	3.69	19.00	16.16	235	22.50	20	1.50
18	28.00	2.63	21.00	3.88	21.00	18.18	285	24.75	24	1.50
20	30.50	2.75	23.00	4.00	23.13	20.20	345	27.00	24	1.63
22	33.00	2.88	25.25	4.25	25.25	22.22	405	29.25	24	1.75
24	36.00	3.00	27.25	4.50	27.63	24.25	510	32.00	24	1.88

ANSI / ASME B16.5 Class 400 Blind Flange Dimensions



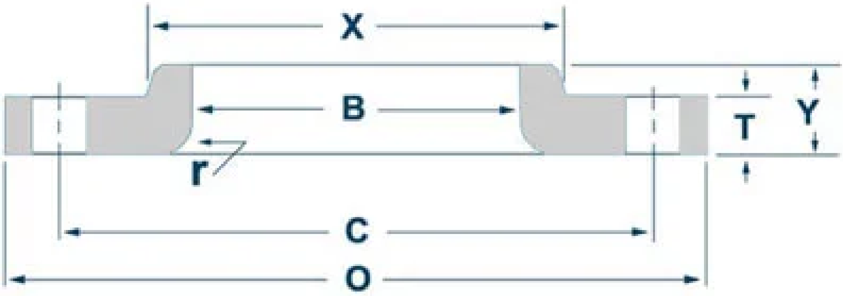
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	2	2.63	4	0.63
3/4	4.63	0.63	1.69	3	3.25	4	0.75
1	4.88	0.69	2.00	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	8	4.50	4	0.88
2	6.50	1.00	3.63	10	5.00	8	0.75
2 1/2	7.50	1.13	4.13	15	5.88	8	0.88
3	8.25	1.25	5.00	20	6.63	8	0.88
3 1/2	9.00	1.38	5.50	29	7.25	8	1.00
4	10.00	1.38	6.19	33	7.88	8	1.00
5	11.00	1.50	7.31	44	9.25	8	1.00
6	12.50	1.63	8.50	61	10.63	12	1.00
8	15.00	1.88	10.63	100	13.00	12	1.13
10	17.50	2.13	12.75	155	15.25	16	1.25
12	20.50	2.25	15.00	225	17.75	16	1.38
14	23.00	2.38	16.25	290	20.25	20	1.38
16	25.50	2.50	18.50	370	22.50	20	1.50
18	28.00	2.63	21.00	455	24.75	24	1.50
20	30.50	2.75	23.00	587	27.00	24	1.63
22	33.00	2.88	25.25	720	29.25	24	1.75
24	36.00	3.00	27.25	890	32.00	24	1.88

ANSI / ASME B16.5 Class 400 Threaded Flange Dimensions



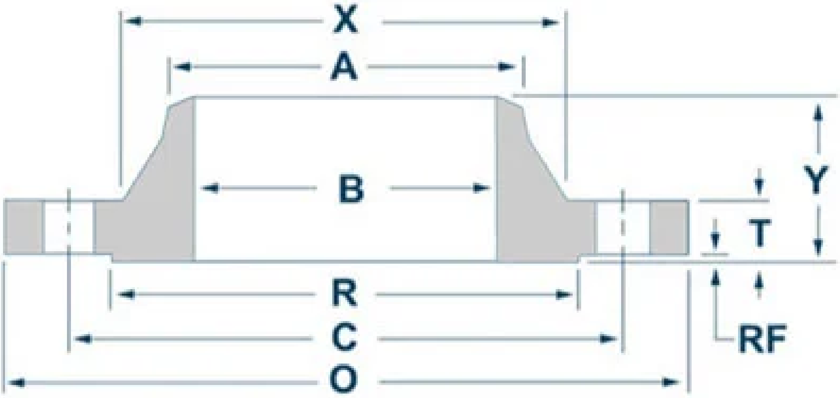
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	1.13	2.50	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	1.25	2.75	7	4.50	4	0.88
2	6.50	1.00	3.63	1.44	3.31	9	5.00	8	0.75
2 1/2	7.50	1.13	4.13	1.63	3.94	13	5.88	8	0.88
3	8.25	1.25	5.00	1.81	4.63	16	6.63	8	0.88
3 1/2	9.00	1.38	5.50	1.94	5.25	21	7.25	8	1.00
4	10.00	1.38	6.19	2.00	5.75	26	7.88	8	1.00
5	11.00	1.50	7.31	2.13	7.00	31	9.25	8	1.00
6	12.50	1.63	8.50	2.25	8.13	44	10.63	12	1.00
8	15.00	1.88	10.63	2.69	10.25	67	13.00	12	1.13
10	17.50	2.13	12.75	2.88	12.63	91	15.25	16	1.25
12	20.50	2.25	15.00	3.13	14.75	130	17.75	16	1.38
14	23.00	2.38	16.25	3.31	16.75	180	20.25	20	1.38
16	25.50	2.50	18.50	3.69	19.00	235	22.50	20	1.50
18	28.00	2.63	21.00	3.88	21.00	285	24.75	24	1.50
20	30.50	2.75	23.00	4.00	23.13	345	27.00	24	1.63
22	33.00	2.88	25.25	4.25	25.25	405	29.25	24	1.75
24	36.00	3.00	27.25	4.50	27.63	510	32.00	24	1.88

ANSI / ASME B16.5 Class 400 Lap Joint Flange Dimensions



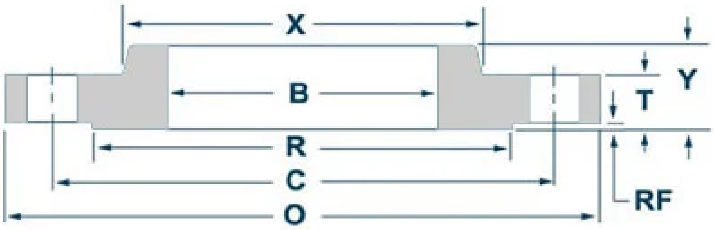
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Length Thru Hub (Y)	Hub Diameter (X)	Radius (R)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	0.13	0.90	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	0.13	1.11	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	0.13	1.38	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	1.13	0.19	1.72	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	1.25	0.25	1.97	7	4.50	4	0.88
2	6.50	1.00	3.63	1.44	0.31	2.46	9	5.00	8	0.75
2 1/2	7.50	1.13	4.13	1.63	0.31	2.97	12	5.88	8	0.88
3	8.25	1.25	5.00	1.81	0.38	3.60	15	6.63	8	0.88
3 1/2	9.00	1.38	5.50	1.94	0.38	4.10	20	7.25	8	1.00
4	10.00	1.38	2.00	5.75	0.44	4.60	25	7.88	8	1.00
5	11.00	1.50	2.13	7.00	0.44	5.69	29	9.25	8	1.00
6	12.50	1.63	2.25	8.13	0.50	6.75	42	10.63	12	1.00
8	15.00	1.88	2.69	10.25	0.50	8.75	64	13.00	12	1.13
10	17.50	2.13	4.00	12.63	0.50	10.92	110	15.25	16	1.25
12	20.50	2.25	4.25	14.75	0.50	12.92	150	17.75	16	1.38
14	23.00	2.38	4.63	16.75	0.50	14.18	205	20.25	20	1.38
16	25.50	2.50	5.00	19.00	0.50	16.19	260	22.50	20	1.50
18	28.00	2.63	5.38	21.00	0.50	18.20	315	24.75	24	1.50
20	30.50	2.75	5.75	23.13	0.50	20.25	385	27.00	24	1.63
22	33.00	2.88	6.00	25.25	0.50	22.25	455	29.25	24	1.75
24	36.00	3.00	6.25	27.63	0.50	24.25	570	32.00	24	1.88

ANSI / ASME B16.5 Class 600 Weld Neck Flange Dimensions



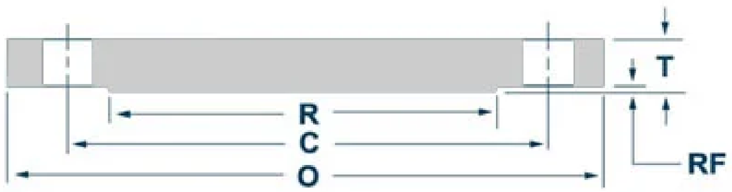
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Point Of Weld (A)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	2.06	0.84	1.50	Specified By Purchaser	2	2.63	4	0.63
3/4	4.63	0.63	1.69	2.25	1.05	1.88	Specified By Purchaser	4	3.25	4	0.75
1	4.88	0.69	2.00	2.44	1.32	2.13	Specified By Purchaser	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	2.63	1.66	2.50	Specified By Purchaser	6	3.88	4	0.75
1 1/2	6.13	0.88	2.88	2.75	1.90	2.75	Specified By Purchaser	8	4.50	4	0.88
2	6.50	1.00	3.63	2.88	2.38	3.31	Specified By Purchaser	12	5.00	8	0.75
2 1/2	7.50	1.13	4.13	3.13	2.88	3.94	Specified By Purchaser	18	5.88	8	0.88
3	8.25	1.25	5.00	3.25	3.50	4.63	Specified By Purchaser	23	6.63	8	0.88
3 1/2	9.00	1.38	5.50	3.38	4.00	5.25	Specified By Purchaser	26	7.25	8	1.00
4	10.75	1.50	6.19	4.00	4.50	6.00	Specified By Purchaser	42	8.50	8	1.00
5	13.00	1.75	7.31	4.50	5.56	7.44	Specified By Purchaser	68	10.50	8	1.13
6	14.00	1.88	8.50	4.63	6.63	8.75	Specified By Purchaser	81	11.50	12	1.13
8	16.50	2.19	10.63	5.25	8.63	10.75	Specified By Purchaser	120	13.75	12	1.25
10	20.00	2.50	12.75	6.00	10.75	13.50	Specified By Purchaser	190	17.00	16	1.38
12	22.00	2.63	15.00	6.13	12.75	15.75	Specified By Purchaser	225	19.25	20	1.38
14	23.75	2.75	16.25	6.50	14.00	17.00	Specified By Purchaser	280	20.75	20	1.50
16	27.00	3.00	18.50	7.00	16.00	19.50	Specified By Purchaser	390	23.75	20	1.63
18	29.25	3.25	21.00	7.25	18.00	21.50	Specified By Purchaser	475	25.75	20	1.75
20	32.00	3.50	23.00	7.50	20.00	24.00	Specified By Purchaser	590	28.50	24	1.75
22	34.25	3.75	25.25	7.75	22.00	26.25	Specified By Purchaser	720	30.63	24	1.88
24	37.00	4.00	27.25	8.00	24.00	28.25	Specified By Purchaser	830	33.00	24	2.00

ANSI / ASME B16.5 Class 600 Slip On Flange Dimensions



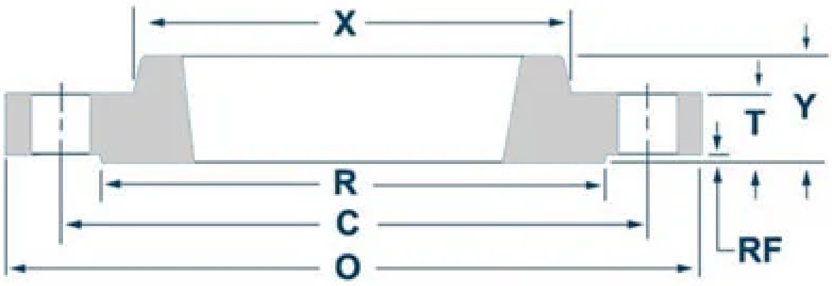
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	0.88	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	1.09	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	1.36	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	1.13	2.50	1.70	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	1.25	2.75	1.95	7	4.50	4	0.88
2	6.50	1.00	3.63	1.44	3.31	2.44	9	5.00	8	0.75
2 1/2	7.50	1.13	4.13	1.63	3.94	2.94	13	5.88	8	0.88
3	8.25	1.25	5.00	1.81	4.63	3.57	16	6.63	8	0.88
3 1/2	9.00	1.38	5.50	1.94	5.25	4.07	21	7.25	8	1.00
4	10.75	1.50	6.19	2.13	6.00	4.57	37	8.50	8	1.00
5	13.00	1.75	7.31	2.38	7.44	5.66	63	10.50	8	1.13
6	14.00	1.88	8.50	2.63	8.75	6.72	80	11.50	12	1.13
8	16.50	2.19	10.63	3.00	10.75	8.72	115	13.75	12	1.25
10	20.00	2.50	12.75	3.38	13.50	10.88	170	17.00	16	1.38
12	22.00	2.63	15.00	3.63	15.75	12.88	200	19.25	20	1.38
14	23.75	2.75	16.25	3.69	17.00	14.14	230	20.75	20	1.50
16	27.00	3.00	18.50	4.19	19.50	16.16	330	23.75	20	1.63
18	29.25	3.25	21.00	4.63	21.50	18.18	400	25.75	20	1.75
20	32.00	3.50	23.00	5.00	24.00	20.20	510	28.50	24	1.75
22	34.25	3.75	25.25	5.25	26.25	22.22	590	30.63	24	1.88
24	37.00	4.00	27.25	5.50	28.25	24.25	730	33.00	24	2.00

ANSI / ASME B16.5 Class 600 Blind Flange Dimensions



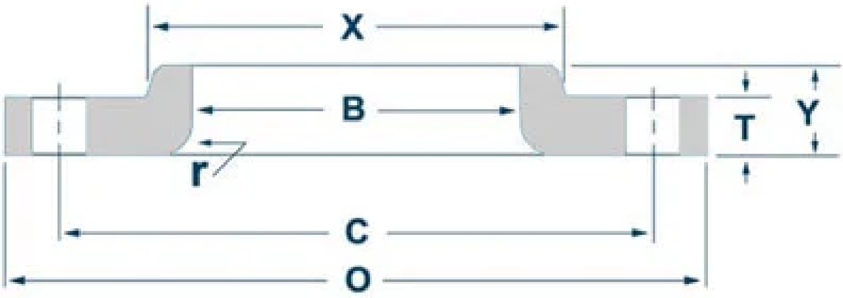
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	2	2.63	4	0.63
3/4	4.63	0.63	1.69	3	3.25	4	0.75
1	4.88	0.69	2.00	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	8	4.50	4	0.88
2	6.50	1.00	3.63	10	5.00	8	0.75
2 1/2	7.50	1.13	4.13	15	5.88	8	0.88
3	8.25	1.25	5.00	20	6.63	8	0.88
3 1/2	9.00	1.38	5.50	29	7.25	8	1.00
4	10.75	1.50	6.19	41	8.50	8	1.00
5	13.00	1.75	7.31	68	10.50	8	1.13
6	14.00	1.88	8.50	86	11.50	12	1.13
8	16.50	2.19	10.63	140	13.75	12	1.25
10	20.00	2.50	12.75	230	17.00	16	1.38
12	22.00	2.63	15.00	295	19.25	20	1.38
14	23.75	2.75	16.25	355	20.75	20	1.50
16	27.00	3.00	18.50	495	23.75	20	1.63
18	29.25	3.25	21.00	630	25.75	20	1.75
20	32.00	3.50	23.00	810	28.50	24	1.75
22	34.25	3.75	25.25	1000	30.63	24	1.88
24	37.00	4.00	27.25	1250	33.00	24	2.00

ANSI / ASME B16.5 Class 600 Threaded Flange Dimensions



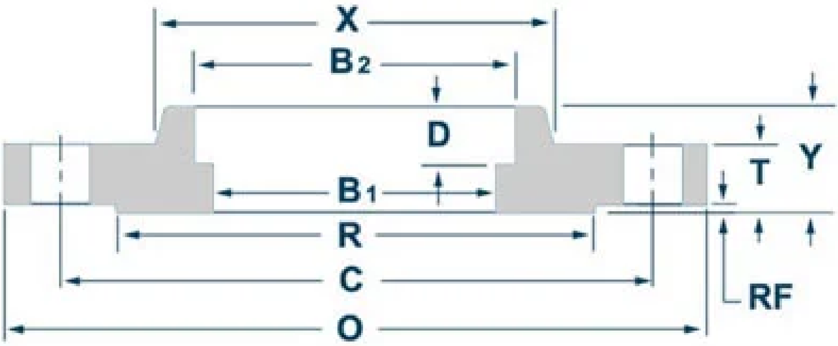
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	1.13	2.50	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	1.25	2.75	7	4.50	4	0.88
2	6.50	1.00	3.63	1.44	3.31	9	5.00	8	0.75
2 1/2	7.50	1.13	4.13	1.63	3.94	13	5.88	8	0.88
3	8.25	1.25	5.00	1.81	4.63	16	6.63	8	0.88
3 1/2	9.00	1.38	5.50	1.94	5.25	21	7.25	8	1.00
4	10.75	1.50	6.19	2.13	6.00	37	8.50	8	1.00
5	13.00	1.75	7.31	2.38	7.44	63	10.50	8	1.13
6	14.00	1.88	8.50	2.63	8.75	80	11.50	12	1.13
8	16.50	2.19	10.63	3.00	10.75	115	13.75	12	1.25
10	20.00	2.50	12.75	3.38	13.50	170	17.00	16	1.38
12	22.00	2.63	15.00	3.63	15.75	200	19.25	20	1.38
14	23.75	2.75	16.25	3.69	17.00	230	20.75	20	1.50
16	27.00	3.00	18.50	4.19	19.50	330	23.75	20	1.63
18	29.25	3.25	21.00	4.63	21.50	400	25.75	20	1.75
20	32.00	3.50	23.00	5.00	24.00	510	28.50	24	1.75
22	34.25	3.75	25.25	5.25	26.25	590	30.63	24	1.88
24	37.00	4.00	27.25	5.50	28.25	730	33.00	24	2.00

ANSI / ASME B16.5 Class 600 Lap Joint Flange Dimensions



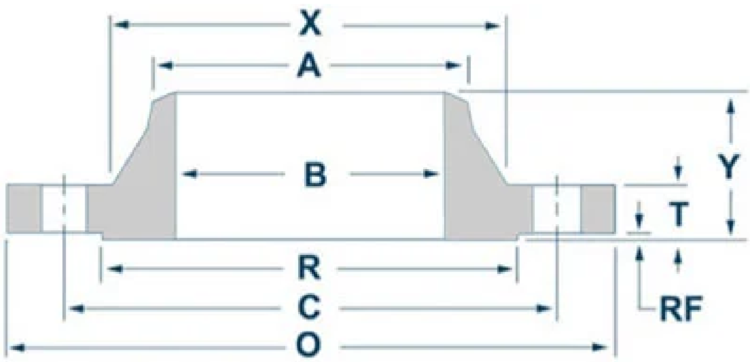
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Length Thru Hub (Y)	Hub Diameter (X)	Radius (R)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	0.88	1.50	0.13	0.90	2	2.63	4	0.63
3/4	4.63	0.63	1.00	1.88	0.13	1.11	3	3.25	4	0.75
1	4.88	0.69	1.06	2.13	0.13	1.38	4	3.50	4	0.75
1 1/4	5.25	0.81	1.13	2.50	0.19	1.72	5	3.88	4	0.75
1 1/2	6.13	0.88	1.25	2.75	0.25	1.97	7	4.50	4	0.88
2	6.50	1.00	1.44	3.31	0.31	2.46	9	5.00	8	0.75
2 1/2	7.50	1.13	1.63	3.94	0.31	2.97	12	5.88	8	0.88
3	8.25	1.25	1.81	4.63	0.38	3.60	15	6.63	8	0.88
3 1/2	9.00	1.38	1.94	5.25	0.38	4.10	20	7.25	8	1.00
4	10.75	1.50	2.13	6.00	0.44	4.60	36	8.50	8	1.00
5	13.00	1.75	2.38	7.44	0.44	5.69	61	10.50	8	1.13
6	14.00	1.88	2.63	8.75	0.50	6.75	78	11.50	12	1.13
8	16.50	2.19	3.00	10.75	0.50	8.75	110	13.75	12	1.25
10	20.00	2.50	4.38	13.50	0.50	10.92	170	17.00	16	1.38
12	22.00	2.63	4.63	15.75	0.50	12.92	200	19.25	20	1.38
14	23.75	2.75	5.00	17.00	0.50	14.18	250	20.75	20	1.50
16	27.00	3.00	5.50	19.50	0.50	16.19	365	23.75	20	1.63
18	29.25	3.25	6.00	21.50	0.50	18.20	435	25.75	20	1.75
20	32.00	3.50	6.50	24.00	0.50	20.25	570	28.50	24	1.75
22	34.25	3.75	6.88	26.25	0.50	22.25	670	30.63	24	1.88
24	37.00	4.00	7.25	28.25	0.50	24.25	810	33.00	24	2.00

ANSI / ASME B16.5 Class 600 Socket Weld Flange Dimensions



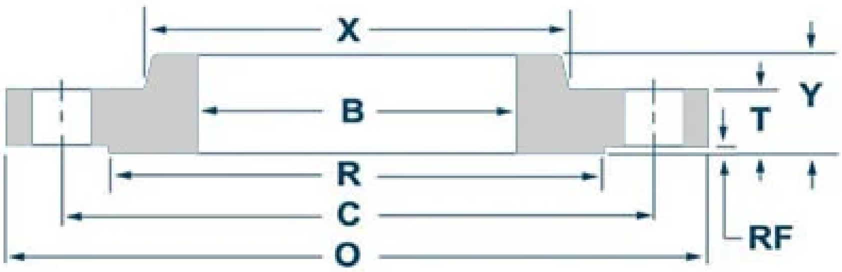
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B1)	Bore (B2)	Depth Of Socket (D)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	3.75	0.56	1.38	0.88	1.50	Specified By Purchaser	0.88	0.38	2	2.63	4	0.63
3/4	4.63	0.63	1.69	1.00	1.88	Specified By Purchaser	1.09	0.44	3	3.25	4	0.75
1	4.88	0.69	2.00	1.06	2.13	Specified By Purchaser	1.36	0.50	4	3.50	4	0.75
1 1/4	5.25	0.81	2.50	1.13	2.50	Specified By Purchaser	1.70	0.56	5	3.88	4	0.75
1 1/2	6.13	0.88	2.88	1.25	2.75	Specified By Purchaser	1.95	0.63	7	4.50	4	0.88
2	6.50	1.00	3.63	1.44	3.31	Specified By Purchaser	2.44	0.69	9	5.00	8	0.75
2 1/2	7.50	1.13	4.13	1.63	3.94	Specified By Purchaser	2.94	0.75	13	5.88	8	0.88
3	8.25	1.25	5.00	1.81	4.63	Specified By Purchaser	3.57	0.81	16	6.63	8	0.88

ANSI / ASME B16.5 Class 900 Weld Neck Flange Dimensions



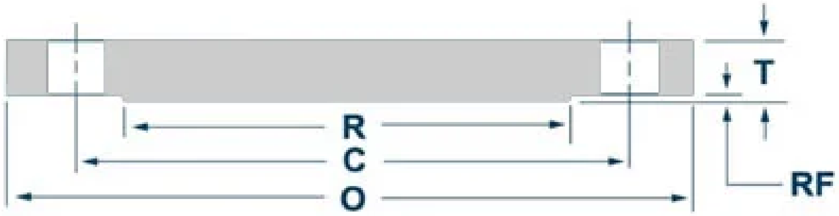
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	2.38	1.50	Specified By Purchaser	5	3.25	4	0.88
3/4	5.13	1.00	1.69	2.75	1.75	Specified By Purchaser	6	3.50	4	0.88
1	5.88	1.13	2.00	2.88	2.06	Specified By Purchaser	9	4.00	4	1.00
1 1/4	6.25	1.13	2.50	2.88	2.50	Specified By Purchaser	10	4.38	4	1.00
1 1/2	7.00	1.25	2.88	3.25	2.75	Specified By Purchaser	13	4.88	4	1.13
2	8.50	1.50	3.63	4.00	4.13	Specified By Purchaser	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	4.06	4.88	Specified By Purchaser	36	7.50	8	1.13
3	9.50	1.50	5.00	4.00	5.00	Specified By Purchaser	31	7.50	8	1.00
4	11.50	1.75	6.19	4.50	6.25	Specified By Purchaser	53	9.25	8	1.25
5	13.75	2.00	7.31	5.00	7.50	Specified By Purchaser	86	11.00	8	1.38
6	15.00	2.19	8.50	5.50	9.25	Specified By Purchaser	110	12.50	12	1.25
8	18.50	2.50	10.63	6.38	11.75	Specified By Purchaser	175	15.50	12	1.50
10	21.50	2.75	12.75	7.25	14.50	Specified By Purchaser	260	18.50	16	1.50
12	24.00	3.13	15.00	7.88	16.50	Specified By Purchaser	325	21.00	20	1.50
14	25.25	3.38	16.25	8.38	17.75	Specified By Purchaser	400	22.00	20	1.63
16	27.75	3.50	18.50	8.50	20.00	Specified By Purchaser	495	24.25	20	1.75
18	31.00	4.00	21.00	9.00	22.25	Specified By Purchaser	680	27.00	20	2.00
20	33.75	4.25	23.00	9.75	24.50	Specified By Purchaser	830	29.50	20	2.13
24	41.00	5.50	27.25	11.50	29.50	Specified By Purchaser	1500	35.50	20	2.63

ANSI / ASME B16.5 Class 900 Slip On Flange Dimensions



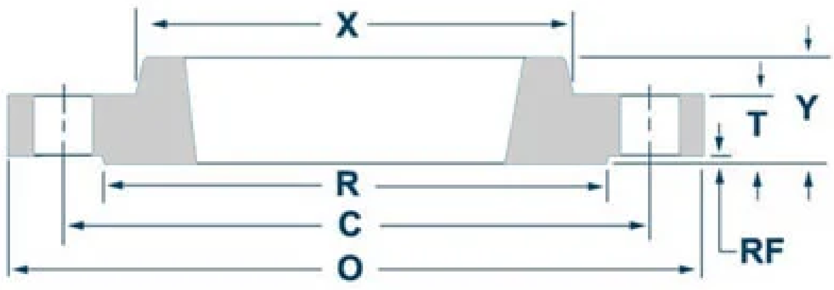
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	1.25	1.50	0.88	4	3.25	4	0.88
3/4	5.13	1.00	1.69	1.38	1.75	1.09	5	3.50	4	0.88
1	5.88	1.13	2.00	1.63	2.06	1.36	8	4.00	4	1.00
1 1/4	6.25	1.13	2.50	1.63	2.50	1.70	9	4.38	4	1.00
1 1/2	7.00	1.25	2.88	1.75	2.75	1.95	12	4.88	4	1.13
2	8.50	1.50	3.63	2.25	4.13	2.44	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	2.50	4.88	2.94	36	7.50	8	1.13
3	9.50	1.50	5.00	2.13	5.00	3.57	26	7.50	8	1.00
4	11.50	1.75	6.19	2.75	6.25	4.57	53	9.25	8	1.25
5	13.75	2.00	7.31	3.13	7.50	5.66	83	11.00	8	1.38
6	15.00	2.19	8.50	3.38	9.25	6.72	110	12.50	12	1.25
8	18.50	2.50	10.63	4.00	11.75	8.72	170	15.50	12	1.50
10	21.50	2.75	12.75	4.25	14.50	10.88	245	18.50	16	1.50
12	24.00	3.13	15.00	4.63	16.50	12.88	325	21.00	20	1.50
14	25.25	3.38	16.25	5.13	17.75	14.14	400	22.00	20	1.63
16	27.75	3.50	18.50	5.25	20.00	16.16	425	24.25	20	1.75
18	31.00	4.00	21.00	6.00	22.25	18.18	600	27.00	20	2.00
20	33.75	4.25	23.00	6.25	24.50	20.20	730	29.50	20	2.13
24	41.00	5.50	27.25	8.00	29.50	24.25	1400	35.50	20	2.63

ANSI / ASME B16.5 Class 900 Blind Flange Dimensions



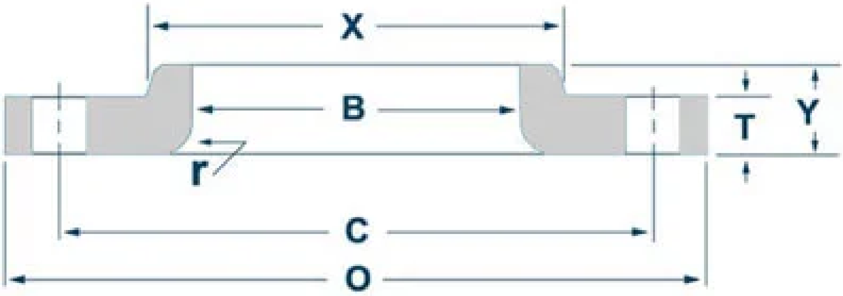
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	4	3.25	4	0.88
3/4	5.13	1.00	1.69	6	3.50	4	0.88
1	5.88	1.13	2.00	8	4.00	4	1.00
1 1/4	6.25	1.13	2.50	9	4.38	4	1.00
1 1/2	7.00	1.25	2.88	13	4.88	4	1.13
2	8.50	1.50	3.63	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	35	7.50	8	1.13
3	9.50	1.50	5.00	29	7.50	8	1.00
4	11.50	1.75	6.19	54	9.25	8	1.25
5	13.75	2.00	7.31	87	11.00	8	1.38
6	15.00	2.19	8.50	115	12.50	12	1.25
8	18.50	2.50	10.63	200	15.50	12	1.50
10	21.50	2.75	12.75	290	18.50	16	1.50
12	24.00	3.13	15.00	415	21.00	20	1.50
14	25.25	3.38	16.25	520	22.00	20	1.63
16	27.75	3.50	18.50	600	24.25	20	1.75
18	31.00	4.00	21.00	850	27.00	20	2.00
20	33.75	4.25	23.00	1075	29.50	20	2.13
24	41.00	5.50	27.25	2025	35.50	20	2.63

ANSI / ASME B16.5 Class 900 Threaded Flange Dimensions



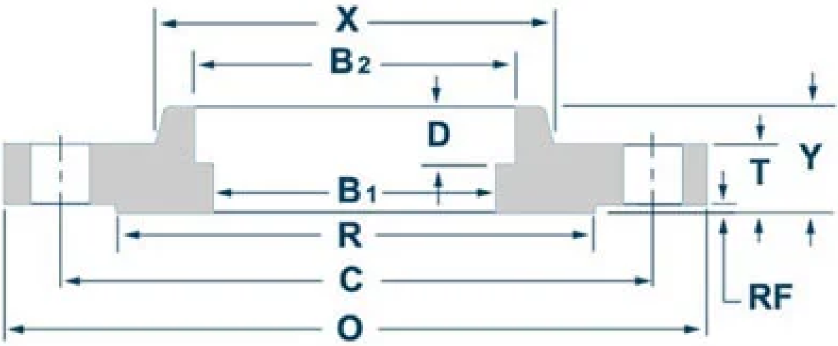
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	1.25	1.50	4	3.25	4	0.88
3/4	5.13	1.00	1.69	1.38	1.75	5	3.50	4	0.88
1	5.88	1.13	2.00	1.63	2.06	8	4.00	4	1.00
1 1/4	6.25	1.13	2.50	1.63	2.50	9	4.38	4	1.00
1 1/2	7.00	1.25	2.88	1.75	2.75	12	4.88	4	1.13
2	8.50	1.50	3.63	2.25	4.13	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	2.50	4.88	36	7.50	8	1.13
3	9.50	1.50	5.00	2.13	5.00	26	7.50	8	1.00
4	11.50	1.75	6.19	2.75	6.25	53	9.25	8	1.25
5	13.75	2.00	7.31	3.13	7.50	83	11.00	8	1.38
6	15.00	2.19	8.50	3.38	9.25	110	12.50	12	1.25
8	18.50	2.50	10.63	4.00	11.75	170	15.50	12	1.50
10	21.50	2.75	12.75	4.25	14.50	245	18.50	16	1.50
12	24.00	3.13	15.00	4.63	16.50	325	21.00	20	1.50
14	25.25	3.38	16.25	5.13	17.75	400	22.00	20	1.63
16	27.75	3.50	18.50	5.25	20.00	425	24.25	20	1.75
18	31.00	4.00	21.00	6.00	22.25	600	27.00	20	2.00
20	33.75	4.25	23.00	6.25	24.50	730	29.50	20	2.13
24	41.00	5.50	27.25	8.00	29.50	1400	35.50	20	2.63

ANSI / ASME B16.5 Class 900 Lap Joint Flange Dimensions



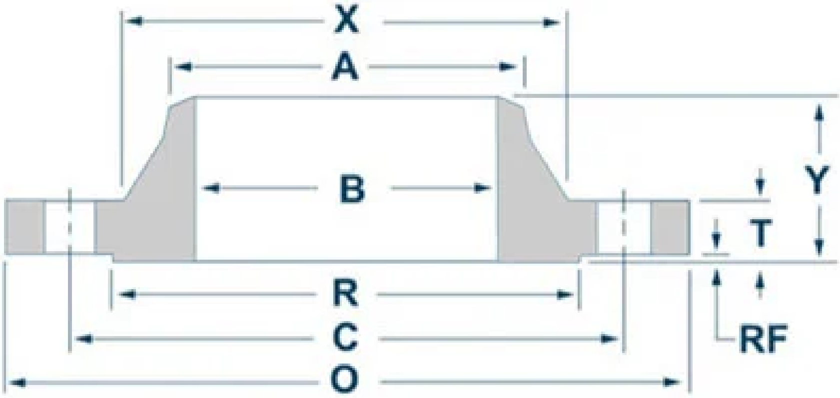
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Length Thru Hub (Y)	Hub Diameter (X)	Radius (R)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	1.25	0.13	1.50	0.90	4	3.25	4
3/4	5.13	1.00	1.69	1.38	0.13	1.75	1.11	5	3.50	4
1	5.88	1.13	2.00	1.63	0.13	2.06	1.38	8	4.00	4
1 1/4	6.25	1.13	2.50	1.63	0.19	2.50	1.72	9	4.38	4
1 1/2	7.00	1.25	2.88	1.75	0.25	2.75	1.97	12	4.88	4
2	8.50	1.50	3.63	2.25	0.31	4.13	2.46	25	6.50	8
2 1/2	9.63	1.63	4.13	2.50	0.31	4.88	2.97	35	7.50	8
3	9.50	1.50	2.13	5.00	0.38	3.60	25	7.50	8	1.00
4	11.50	1.75	2.75	6.25	0.44	4.60	51	9.25	8	1.25
5	13.75	2.00	3.13	7.50	0.50	5.69	81	11.00	8	1.38
6	15.00	2.19	3.38	9.25	0.50	6.75	105	12.50	12	1.25
8	18.50	2.50	4.50	11.75	0.50	8.75	190	15.50	12	1.50
10	21.50	2.75	5.00	14.50	0.50	10.92	275	18.50	16	1.50
12	24.00	3.13	5.63	16.50	0.50	12.92	370	21.00	20	1.50
14	25.25	3.38	6.13	17.75	0.50	14.18	415	22.00	20	1.63
16	27.75	3.50	6.50	20.00	0.50	16.19	465	24.25	20	1.75
18	31.00	4.00	7.50	22.25	0.50	18.20	650	27.00	20	2.00
20	33.75	4.25	8.25	24.50	0.50	20.25	810	29.50	20	2.13
24	41.00	5.50	10.50	29.50	0.50	24.25	1550	35.50	20	2.63

ANSI / ASME B16.5 Class 900 Socket Weld Flange Dimensions



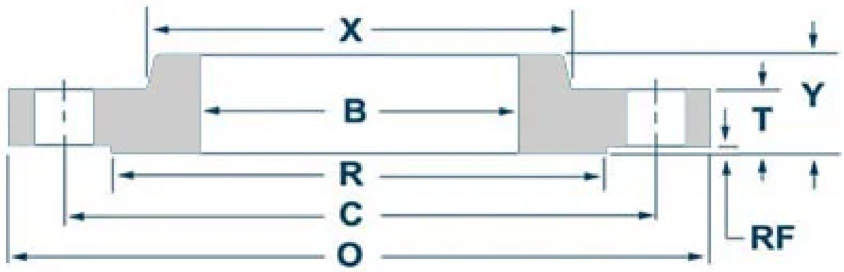
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B1)	Bore (B2)	Depth Of Socket (D)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	1.25	1.50	Specified By Purchaser	0.88	0.38	5	3.25	4	0.88
3/4	5.13	1.00	1.69	1.38	1.75	Specified By Purchaser	1.09	0.44	6	3.50	4	0.88
1	5.88	1.13	2.00	1.63	2.06	Specified By Purchaser	1.36	0.50	9	4.00	4	1.00
1 1/4	6.25	1.13	2.50	1.63	2.50	Specified By Purchaser	1.70	0.56	10	4.38	4	1.00
1 1/2	7.00	1.25	2.88	1.75	2.75	Specified By Purchaser	1.95	0.63	13	4.88	4	1.13
2	8.50	1.50	3.63	2.25	4.13	Specified By Purchaser	2.44	0.69	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	2.50	4.88	Specified By Purchaser	2.94	0.75	36	7.50	8	1.13

ANSI / ASME B16.5 Class 1500 Weld Neck Flange Dimensions



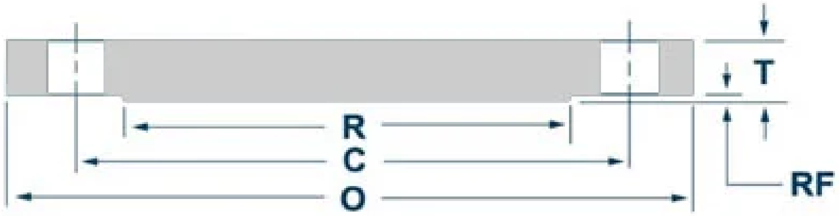
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Point Of Weld (A)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	2.38	0.84	1.50	Specified By Purchaser	5	3.25	4	0.88
3/4	5.13	1.00	1.69	2.75	1.05	1.75	Specified By Purchaser	6	3.50	4	0.88
1	5.88	1.13	2.00	2.88	1.32	2.06	Specified By Purchaser	9	4.00	4	1.00
1 1/4	6.25	1.13	2.50	2.88	1.66	2.50	Specified By Purchaser	10	4.38	4	1.00
1 1/2	7.00	1.25	2.88	3.25	1.90	2.75	Specified By Purchaser	13	4.88	4	1.13
2	8.50	1.50	3.63	4.00	2.38	4.13	Specified By Purchaser	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	4.06	2.88	4.88	Specified By Purchaser	36	7.50	8	1.13
3	10.50	1.88	5.00	4.63	3.50	5.25	Specified By Purchaser	48	8.00	8	1.25
4	12.25	2.13	6.19	4.88	4.50	6.38	Specified By Purchaser	73	9.50	8	1.38
5	14.75	2.88	7.31	6.13	5.56	7.75	Specified By Purchaser	130	11.50	8	1.63
6	15.50	3.25	8.50	6.75	6.63	9.00	Specified By Purchaser	165	12.50	12	1.50
8	19.00	3.63	10.63	8.38	8.63	11.50	Specified By Purchaser	275	15.50	12	1.75
10	23.00	4.25	12.75	10.00	10.75	14.50	Specified By Purchaser	455	19.00	12	2.00
12	26.50	4.88	15.00	11.13	12.75	17.75	Specified By Purchaser	690	22.50	16	2.13
14	29.50	5.25	16.25	11.75	14.00	19.50	Specified By Purchaser	940	25.00	16	2.38
16	32.50	5.75	18.50	12.25	16.00	21.75	Specified By Purchaser	1250	27.75	16	2.63
18	36.00	6.38	21.00	12.88	18.00	23.50	Specified By Purchaser	1625	30.50	16	2.88
20	38.75	7.00	23.00	14.00	20.00	25.25	Specified By Purchaser	2050	32.75	16	3.13
24	46.00	8.00	27.25	16.00	24.00	30.00	Specified By Purchaser	3325	39.00	16	3.63

ANSI / ASME B16.5 Class 1500 Slip On Flange Dimensions



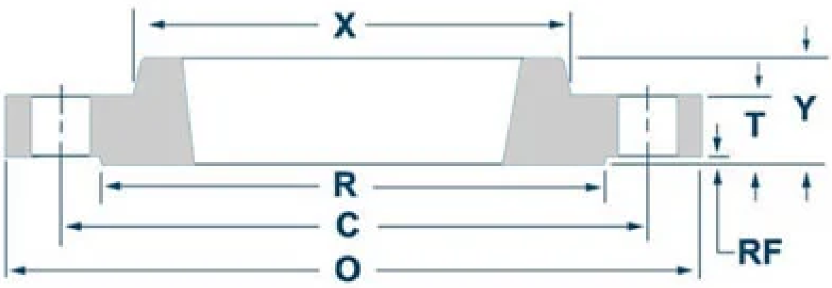
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	1.25	1.50	0.88	4	3.25	4	0.88
3/4	5.13	1.00	1.69	1.38	1.75	1.09	5	3.50	4	0.88
1	5.88	1.13	2.00	1.63	2.06	1.36	8	4.00	4	1.00
1 1/4	6.25	1.13	2.50	1.63	2.50	1.70	9	4.38	4	1.00
1 1/2	7.00	1.25	2.88	1.75	2.75	1.95	12	4.88	4	1.13
2	8.50	1.50	3.63	2.25	4.13	2.44	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	2.50	4.88	2.94	36	7.50	8	1.13
3	10.50	1.88	5.00	2.88	5.25	3.57	48	8.00	8	1.25
4	12.25	2.13	6.19	3.56	6.38	4.57	73	9.50	8	1.38
5	14.75	2.88	7.31	4.13	7.75	5.66	130	11.50	8	1.63
6	15.50	3.25	8.50	4.69	9.00	6.72	165	12.50	12	1.50
8	19.00	3.63	10.63	5.63	11.50	8.72	260	15.50	12	1.75
10	23.00	4.25	12.75	6.25	14.50	10.88	435	19.00	12	2.00
12	26.50	4.88	15.00	7.13	17.75	12.88	580	22.50	16	2.13

ANSI / ASME B16.5 Class 1500 Blind Flange Dimensions



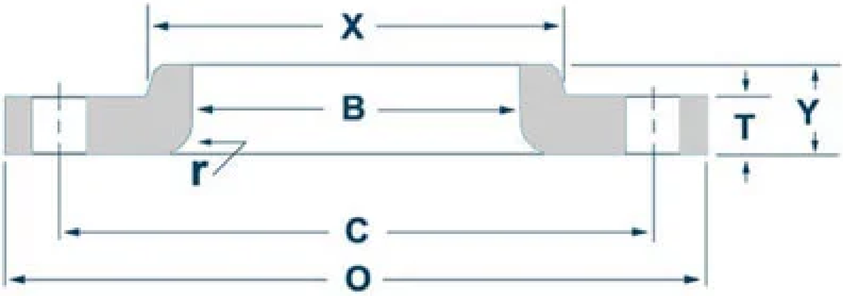
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	4	3.25	4	0.88
3/4	5.13	1.00	1.69	6	3.50	4	0.88
1	5.88	1.13	2.00	8	4.00	4	1.00
1 1/4	6.25	1.13	2.50	9	4.38	4	1.00
1 1/2	7.00	1.25	2.88	13	4.88	4	1.13
2	8.50	1.50	3.63	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	35	7.50	8	1.13
3	10.50	1.88	5.00	48	8.00	8	1.25
4	12.25	2.13	6.19	73	9.50	8	1.38
5	14.75	2.88	7.31	140	11.50	8	1.63
6	15.50	3.25	8.50	160	12.50	12	1.50
8	19.00	3.63	10.63	300	15.50	12	1.75
10	23.00	4.25	12.75	510	19.00	12	2.00
12	26.50	4.88	15.00	690	22.50	16	2.13
14	29.50	5.25	16.25	975	25.00	16	2.38
16	32.50	5.75	18.50	1300	27.75	16	2.63
18	36.00	6.38	21.00	1750	30.50	16	2.88
20	38.75	7.00	23.00	2225	32.75	16	3.13
24	46.00	8.00	27.25	3625	39.00	16	3.63

ANSI / ASME B16.5 Class 1500 Threaded Flange Dimensions



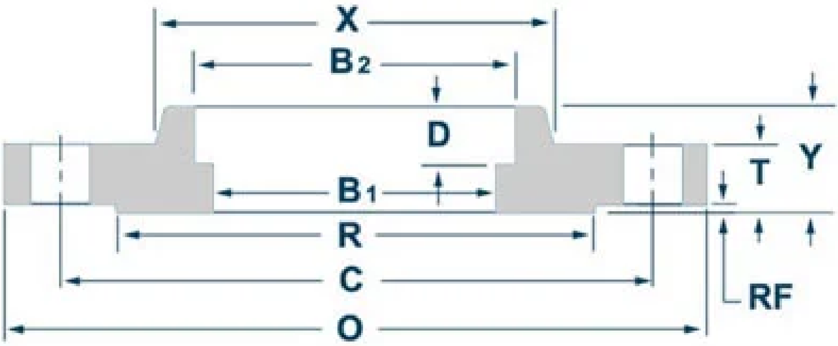
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	1.25	1.50	4	3.25	4	0.88
3/4	5.13	1.00	1.69	1.38	1.75	5	3.50	4	0.88
1	5.88	1.13	2.00	1.63	2.06	8	4.00	4	1.00
1 1/4	6.25	1.13	2.50	1.63	2.50	9	4.38	4	1.00
1 1/2	7.00	1.25	2.88	1.75	2.75	12	4.88	4	1.13
2	8.50	1.50	3.63	2.25	4.13	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	2.50	4.88	36	7.50	8	1.13
3	10.50	1.88	5.00	2.88	5.25	48	8.00	8	1.25
4	12.25	2.13	6.19	3.56	6.38	73	9.50	8	1.38
5	14.75	2.88	7.31	4.13	7.75	130	11.50	8	1.63
6	15.50	3.25	8.50	4.69	9.00	165	12.50	12	1.50
8	19.00	3.63	10.63	5.63	11.50	260	15.50	12	1.75
10	23.00	4.25	12.75	6.25	14.50	435	19.00	12	2.00
12	26.50	4.88	15.00	7.13	17.75	580	22.50	16	2.13

ANSI / ASME B16.5 Class 1500 Lap Joint Flange Dimensions



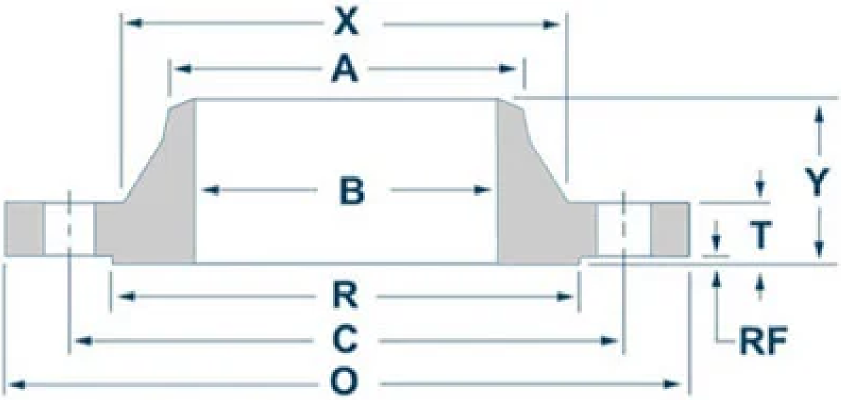
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Length Thru Hub (Y)	Hub Diameter (X)	Radius (R)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.25	1.50	0.13	0.90	4	3.25	4	0.88
3/4	5.13	1.00	1.38	1.75	0.13	1.11	5	3.50	4	0.88
1	5.88	1.13	1.63	2.06	0.13	1.38	8	4.00	4	1.00
1 1/4	6.25	1.13	1.63	2.50	0.19	1.72	9	4.38	4	1.00
1 1/2	7.00	1.25	1.75	2.75	0.25	1.97	12	4.88	4	1.13
2	8.50	1.50	2.25	4.13	0.31	2.46	25	6.50	8	1.00
2 1/2	9.63	1.63	2.50	4.88	0.31	2.97	35	7.50	8	1.13
3	10.50	1.88	2.88	5.25	0.38	3.60	47	8.00	8	1.25
4	12.25	2.13	3.56	6.38	0.38	4.60	75	9.50	8	1.38
5	14.75	2.88	4.13	7.75	0.44	5.69	140	11.50	8	1.63
6	15.50	3.25	4.69	9.00	0.44	6.75	170	12.50	12	1.50
8	19.00	3.63	5.63	11.50	0.50	8.75	285	15.50	12	1.75
10	23.00	4.25	7.00	14.50	0.50	10.92	485	19.00	12	2.00
12	26.50	4.88	8.63	17.75	0.50	12.92	630	22.50	16	2.13
14	29.50	5.25	9.50	19.50	0.50	14.18	890	25.00	16	2.38
16	32.50	5.75	10.25	21.75	0.50	16.19	1150	27.75	16	2.63
18	36.00	6.38	10.88	23.50	0.50	18.20	1475	30.50	16	2.88
20	38.75	7.00	11.50	25.25	0.50	20.25	1775	32.75	16	3.13
24	46.00	8.00	13.00	30.00	0.50	24.25	2825	39.00	16	3.63

ANSI / ASME B16.5 Class 1500 Socket Weld Flange Dimensions



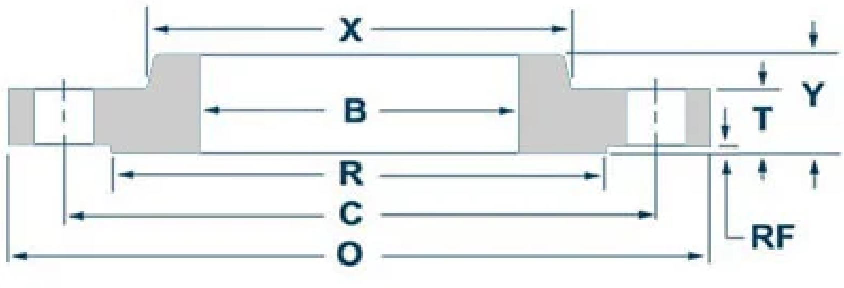
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B1)	Bore (B2)	Depth Of Socket (D)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	4.75	0.88	1.38	1.25	1.50	Specified By Purchaser	0.88	0.38	4	3.25	4	0.88
3/4	5.13	1.00	1.69	1.38	1.75	Specified By Purchaser	1.09	0.44	5	3.50	4	0.88
1	5.88	1.13	2.00	1.63	2.06	Specified By Purchaser	1.36	0.50	8	4.00	4	1.00
1 1/4	6.25	1.13	2.50	1.63	2.50	Specified By Purchaser	1.70	0.56	9	4.38	4	1.00
1 1/2	7.00	1.25	2.88	1.75	2.75	Specified By Purchaser	1.95	0.63	12	4.88	4	1.13
2	8.50	1.50	3.63	2.25	4.13	Specified By Purchaser	2.44	0.69	25	6.50	8	1.00
2 1/2	9.63	1.63	4.13	2.50	4.88	Specified By Purchaser	2.94	0.75	36	7.50	8	1.13

ANSI / ASME B16.5 Class 2500 Weld Neck Flange Dimensions



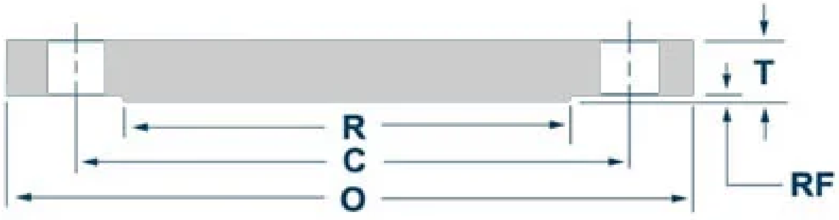
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Point Of Weld (A)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	5.25	1.19	1.38	2.88	0.84	1.69	Specified By Purchaser	7	3.50	4	0.88
3/4	5.50	1.25	1.69	3.13	1.05	2.00	Specified By Purchaser	8	3.75	4	0.88
1	6.25	1.38	2.00	3.50	1.32	2.25	Specified By Purchaser	12	4.25	4	1.00
1 1/4	7.25	1.50	2.50	3.75	1.66	2.88	Specified By Purchaser	17	5.13	4	1.13
1 1/2	8.00	1.75	2.88	4.38	1.90	3.13	Specified By Purchaser	25	5.75	4	1.25
2	9.25	2.00	3.63	5.00	2.38	3.75	Specified By Purchaser	42	6.75	8	1.13
2 1/2	10.50	2.25	4.13	5.63	2.88	4.50	Specified By Purchaser	52	7.75	8	1.25
3	12.00	2.63	5.00	6.63	3.50	5.25	Specified By Purchaser	94	9.00	8	1.38
4	14.00	3.00	6.19	7.50	4.50	6.50	Specified By Purchaser	145	10.75	8	1.63
5	16.50	3.63	7.31	9.00	5.56	8.00	Specified By Purchaser	245	12.75	8	1.88
6	19.00	4.25	8.50	10.75	6.63	9.25	Specified By Purchaser	380	14.50	8	2.13
8	21.75	5.00	10.63	12.50	8.63	12.00	Specified By Purchaser	580	17.25	12	2.13
10	26.50	6.50	12.75	16.50	10.75	14.75	Specified By Purchaser	1075	21.25	12	2.63
12	30.00	7.25	15.00	18.25	12.75	17.38	Specified By Purchaser	1525	24.38	12	2.88

ANSI / ASME B16.5 Class 2500 Slip On Flange Dimensions



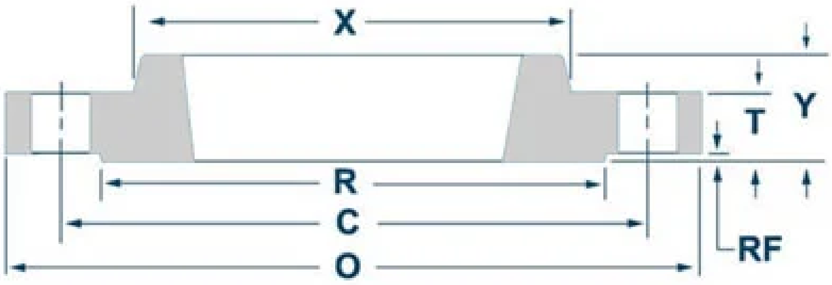
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	5.25	1.19	1.38	1.56	1.69	0.88	7	3.50	4	0.88
3/4	5.50	1.25	1.69	1.69	2.00	1.09	8	3.75	4	0.88
1	6.25	1.38	2.00	1.88	2.25	1.36	11	4.25	4	1.00
1 1/4	7.25	1.50	2.50	2.06	2.88	1.70	16	5.13	4	1.13
1 1/2	8.00	1.75	2.88	2.38	3.13	1.95	22	5.75	4	1.25
2	9.25	2.00	3.63	2.75	3.75	2.44	38	6.75	8	1.13
2 1/2	10.50	2.25	4.13	3.13	4.50	2.94	55	7.75	8	1.25
3	12.00	2.63	5.00	3.63	5.25	3.57	83	9.00	8	1.38
4	14.00	3.00	6.19	4.25	6.50	4.57	125	10.75	8	1.63
5	16.50	3.63	7.31	5.13	8.00	5.66	210	12.75	8	1.88
6	19.00	4.25	8.50	6.00	9.25	6.72	325	14.50	8	2.13
8	21.75	5.00	10.63	7.00	12.00	8.72	485	17.25	12	2.13
10	26.50	6.50	12.75	9.00	14.75	10.88	930	21.25	12	2.63
12	30.00	7.25	15.00	10.00	17.38	12.88	1100	24.38	12	2.88

ANSI / ASME B16.5 Class 2500 Blind Flange Dimensions



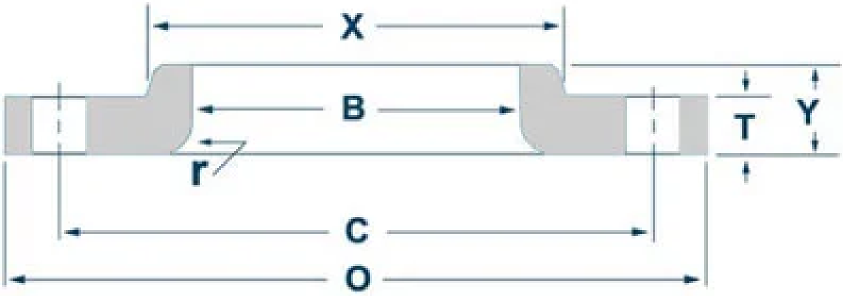
Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	5.25	1.19	1.38	7	3.50	4	0.88
3/4	5.50	1.25	1.69	8	3.75	4	0.88
1	6.25	1.38	2.00	11	4.25	4	1.00
1 1/4	7.25	1.50	2.50	17	5.13	4	1.13
1 1/2	8.00	1.75	2.88	23	5.75	4	1.25
2	9.25	2.00	3.63	39	6.75	8	1.13
2 1/2	10.50	2.25	4.13	56	7.75	8	1.25
3	12.00	2.63	5.00	86	9.00	8	1.38
4	14.00	3.00	6.19	135	10.75	8	1.63
5	16.50	3.63	7.31	225	12.75	8	1.88
6	19.00	4.25	8.50	345	14.50	8	2.13
8	21.75	5.00	10.63	530	17.25	12	2.13
10	26.50	6.50	12.75	1025	21.25	12	2.63
12	30.00	7.25	15.00	1300	24.38	12	2.88

ANSI / ASME B16.5 Class 2500 Threaded Flange Dimensions



Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Raised Face Diameter (R)	Length Thru Hub (Y)	Hub Diameter (X)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	5.25	1.19	1.38	1.56	1.69	7	3.50	4	0.88
3/4	5.50	1.25	1.69	1.69	2.00	8	3.75	4	0.88
1	6.25	1.38	2.00	1.88	2.25	11	4.25	4	1.00
1 1/4	7.25	1.50	2.50	2.06	2.88	16	5.13	4	1.13
1 1/2	8.00	1.75	2.88	2.38	3.13	22	5.75	4	1.25
2	9.25	2.00	3.63	2.75	3.75	38	6.75	8	1.13
2 1/2	10.50	2.25	4.13	3.13	4.50	55	7.75	8	1.25
3	12.00	2.63	5.00	3.63	5.25	83	9.00	8	1.38
4	14.00	3.00	6.19	4.25	6.50	125	10.75	8	1.63
5	16.50	3.63	7.31	5.13	8.00	210	12.75	8	1.88
6	19.00	4.25	8.50	6.00	9.25	325	14.50	8	2.13
8	21.75	5.00	10.63	7.00	12.00	485	17.25	12	2.13
10	26.50	6.50	12.75	9.00	14.75	930	21.25	12	2.63
12	30.00	7.25	15.00	10.00	17.38	1100	24.38	12	2.88

ANSI / ASME B16.5 Class 2500 Lap Joint Flange Dimensions



Nominal Pipe Size	Outside Diameter (O)	Thickness (T)	Length Thru Hub (Y)	Hub Diameter (X)	Radius (R)	Bore (B)	Approximate Weight (Lbs)	Bolt Circle (C)	Number Of Holes	Diameter Of Holes
1/2	5.25	1.19	1.56	1.69	0.13	0.90	7	3.50	4	0.88
3/4	5.50	1.25	1.69	2.00	0.13	1.11	8	3.75	4	0.88
1	6.25	1.38	1.88	2.25	0.13	1.38	11	4.25	4	1.00
1 1/4	7.25	1.50	2.06	2.88	0.19	1.72	16	5.13	4	1.13
1 1/2	8.00	1.75	2.38	3.13	0.25	1.97	22	5.75	4	1.25
2	9.25	2.00	2.75	3.75	0.31	2.46	38	6.75	8	1.13
2 1/2	10.50	2.25	3.13	4.50	0.31	2.97	55	7.75	8	1.25
3	12.00	2.63	3.63	5.25	0.38	3.60	83	9.00	8	1.38
4	14.00	3.00	4.25	6.50	0.38	4.60	125	10.75	8	1.63
5	16.50	3.63	5.13	8.00	0.44	5.69	210	12.75	8	1.88
6	19.00	4.25	6.00	9.25	0.44	6.75	325	14.50	8	2.13
8	21.75	5.00	7.00	12.00	0.50	8.75	485	17.25	12	2.13
10	26.50	6.50	9.00	14.75	0.50	10.92	930	21.25	12	2.63
12	30.00	7.25	10.00	17.38	0.50	12.92	1100	24.38	12	2.88

Application

1. Construction
2. Oil and Gas
3. Chemical Processing
4. Water Treatment
5. Power Generation
6. Manufacturing
7. Mining
8. HVAC
9. Food and Beverage
10. Pharmaceuticals
11. Agriculture
12. Wastewater Treatment

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