



Class 600 Flange Dimensions

Specification Of Class 600 Flanges :

Size: 1/2" (DN15) ~ 60" (DN1500)

Pressure Ratings : Class 600

Type : Weld Neck, Threaded, Slip-On, Socket Weld, Lap Joint, Blind, Orifice Flange, Orifice Plate and Restriction Orifice Plate, Spectacle Blind, Spacer, Blanks

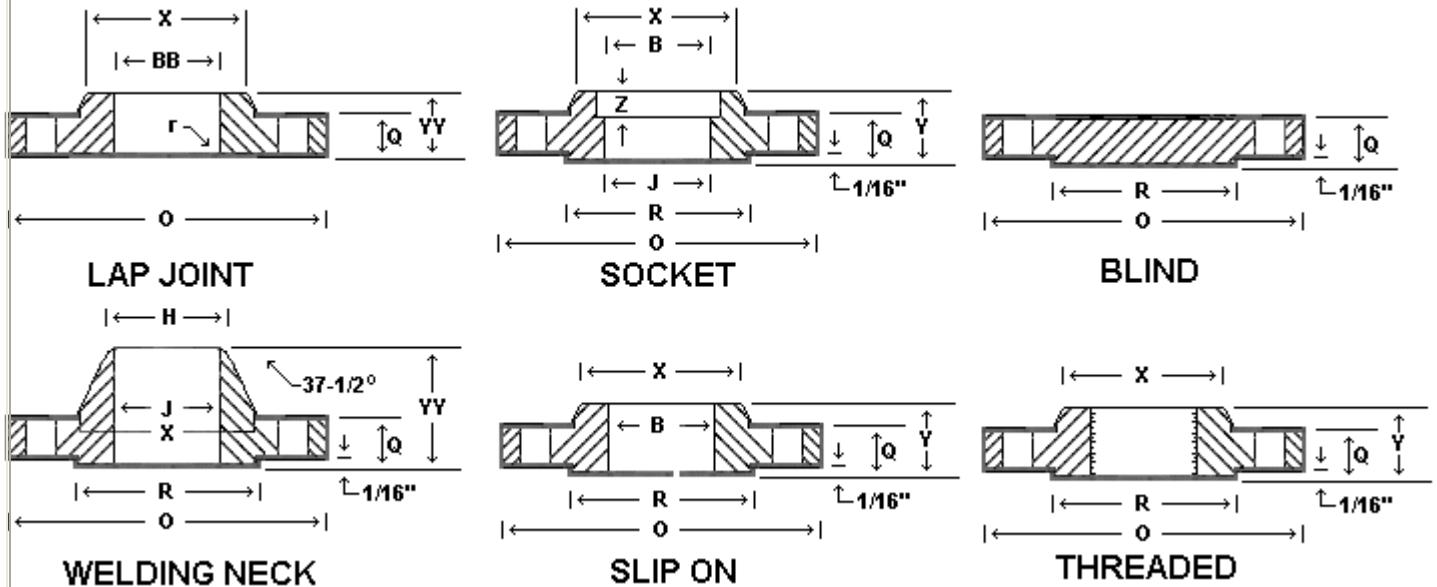
Face Type : Flat Face (FF), Raise Face (RF), Ring Joint (RJT)

Coating : Anti-rust Paint, Oil Black Paint, Yellow Transparent, Zinc Plated, Cold and Hot Dip Galvanized

Dimension : ANSI/ASME B16.5, ANSI/ASME B16.47 Series A (MSS SP-44), ANSI/ASME B16.47 Series B (API 605), ANSI/ASME B16.36, ANSI/ASME B16.48 (API 590)



Dimensions for Class 600 Flanges



Nom. Pipe Size (inches)	O	Q*	R	X	No. and** Dia of Bolt Holes	Bolt Circle Dia.	YY*	H	J	Y*	B	r	YV	BB	Z	C	T
1/2	3.75	0.56	1.38	1.5	4-0.62	2.62	2.06	0.84	****	0.88	0.88	0.12	0.88	0.90	0.38	0.93	0.62
3/4	4.62	.62	1.69	1.88	4-0.75	3.25	2.25	1.05		1.00	1.09	0.12	1.00	1.11	.44	1.14	0.62
1	4.88	.69	2.00	2.12	4-0.75	3.50	2.44	1.32		1.06	1.36	0.12	1.06	1.38	0.5	1.41	0.69
1 1/4	5.25	0.81	2.50	2.5	4-0.75	3.88	2.62	1.66		1.12	1.70	0.19	1.12	1.72	0.56	1.75	0.81
1 1/2	6.12	0.88	2.88	2.75	4-0.88	4.50	2.75	1.90		1.25	1.95	0.25	1.25	1.97	0.62	1.99	0.88
2	6.50	1.00	3.62	3.31	8-0.75	5.00	2.88	2.38		1.44	2.44	0.31	1.44	2.46	0.69	2.50	1.12
2 1/2	7.50	1.12	4.12	3.94	8-0.88	5.88	3.12	2.88		1.62	2.94	0.31	1.62	2.97	0.75	3.00	1.25
3	8.25	1.25	5.00	4.62	8-0.88	6.62	3.25	3.50		1.81	3.57	0.38	1.81	3.60	0.81	3.63	1.38
3 1/2	9.00	1.38	5.5	5.25	8-1.00	7.25	3.38	4.00		1.94	4.07	0.38	1.94	4.10		4.13	1.56
4	10.75	1.50	6.19	6.00	8-1.00	8.50	4.00	4.50		2.12	4.57	0.44	2.12	4.60		4.63	1.62
5	13.00	1.75	7.31	7.44	8-1.12	10.50	4.50	5.56		2.38	5.66	0.44	2.38	5.69		5.69	1.88
6	14.00	1.88	8.50	8.75	12-1.12	11.50	4.62	6.63		2.62	6.72	0.50	2.62	6.75		6.75	2.00
8	16.50	2.19	10.62	10.75	12-1.25	13.75	5.25	8.63		3.00	8.72	0.50	3.00	8.75		8.75	2.25
10	20.00	2.50	12.75	13.5	16-1.38	17.00	6.00	10.75		3.38	10.88	0.50	4.38	10.92		10.88	2.56
12	22.00	2.62	15.00	15.75	20-1.38	19.25	6.12	12.75		3.62	12.88	0.50	4.62	12.92		12.94	2.75
14	23.75	2.75	16.25	17.00	20-1.50	20.75	6.50	14.00		3.69	14.14	0.50	5.00	14.18		14.19	2.88
16	27.00	3.00	18.50	19.50	20-1.62	23.75	7.00	16.00		4.19	16.16	0.50	5.5	16.19		18.19	3.06
18	29.25	3.25	21.00	21.50	20-1.75	25.75	7.25	18.00		4.62	18.18	0.50	6.00	18.20		18.10	3.12
20	32.00	3.50	23.00	24.00	24-1.75	28.50	7.50	20.00		5.00	20.2	0.50	6.5	20.25		20.19	3.25
24	37.00	4.00	27.25	28.25	24-2.00	33.00	8.00	24.00		5.50	24.25	0.50	7.25	24.25		24.19	3.62

The following charts are for reference use only. They are based upon older piping systems. Refer to current specifications when designing new systems



Weight (L.B.S.)***								Flange Types	
Pressure Class	Nom. Size Pipe	Weld Neck	Slip-On	Thd.	Lap Joint	Blind	Socket	Thermometricscorp.com WELD NECK FLANGE	
600	2	10	8	8	8	10	9		
	2 1/2	14	12	12	11	15	13		
	3	18	15	15	14	20	16		
	3 1/2	26	21	21	20	29			
	4	37	33	33	31	41			
	5	68	63	63	63	68			
	6	73	80	80	78	86			
	8	112	97	97	112	139			
	10	189	177	177	195	231			
	12	226	215	215	240	295			
	14	347	259	259	290	378			
	16	481	366	366	400	527			
	18	555	476	476	469	665			
	20	690	612	612	604	855			
	24	977	876	866	1175				
<p>All dimensions given in inches.</p> <p>Dimensions & tolerances in accordance with ANSI B16.5. Carbon steel flanges mechanical properties and chemistry conform to ASTM A105.</p> <p>Flanges are furnished faced, drilled and spot faced or back faced.</p> <p>*1/4 in. raised face included in dimensions Q, Y and YY.</p> <p>**Bolt hole diameter 1/8 in. larger than bolt diameter.</p> <p>***Weights listed are approximate values.</p> <p>**** To be specified by the customer.</p>									