Class 300 Flange Dimensions

Specification Of Class 300 Flanges :
Size: 1/2" (DN15) ~ 60" (DN1500)

Pressure: **Class 300**

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)

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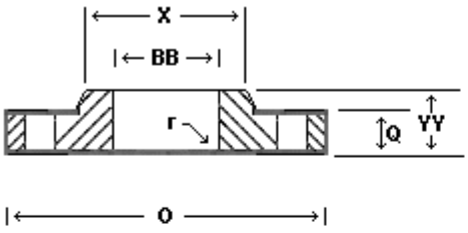
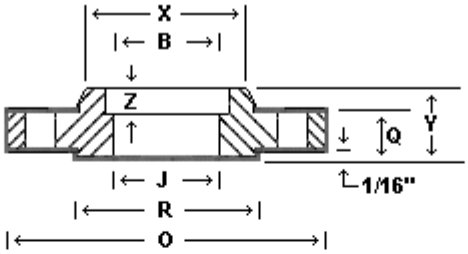
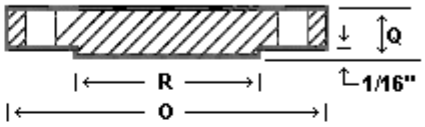
Dimensions for Class 300 Flanges



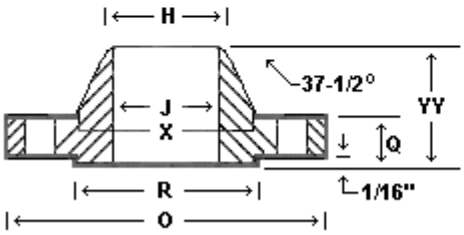
LAP JOINT



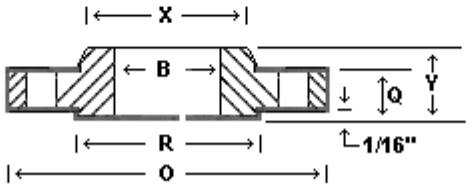
SOCKET



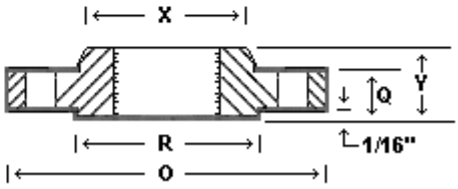
BLIND



WELDING NECK



SLIP ON



THREADED

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	1.50	4-0.62	2.62	2.06	0.84	0.62	0.88	0.88	0.12	0.88	0.90	0.38	0.93	0.62
3/4	4.62	0.62	1.69	1.88	4-0.75	3.25	2.25	1.05	0.82	1.00	1.09	0.12	1.00	1.11	0.44	1.14	0.62
1	4.88	0.69	2.00	2.12	4-0.75	3.50	2.44	1.32	1.05	1.06	1.36	0.12	1.06	1.38	0.50	1.41	0.69
11/4	5.25	0.75	2.50	2.50	4-0.75	3.88	2.56	1.66	1.38	1.06	1.70	0.19	1.06	1.72	0.56	1.75	0.81
11/2	6.12	0.81	2.88	2.75	4-0.88	4.50	2.69	1.90	1.61	1.19	1.95	0.25	1.19	1.97	0.62	1.99	0.88
2	6.50	0.88	3.62	3.31	8-0.75	5.00	2.75	2.38	2.07	1.31	2.44	0.31	1.31	2.46	0.69	2.50	1.12
21/2	7.50	1.00	4.12	3.94	8-0.88	5.88	3.00	2.88	2.47	1.50	2.94	0.31	1.50	2.97	0.75	3.00	1.25
3	8.25	1.12	5.00	4.62	8-0.88	6.62	3.12	3.50	3.07	1.69	3.57	0.38	1.69	3.60	0.81	3.63	1.25
31/2	9.00	1.19	5.50	5.25	8-0.88	7.25	3.19	4.00	3.55	1.75	4.07	0.38	1.75	4.10		4.13	1.44
4	10.00	1.25	6.19	5.75	8-0.88	7.88	3.38	4.50	4.03	1.88	4.57	0.44	1.88	4.60		4.63	1.44
5	11.00	1.38	7.31	7.00	8-0.88	9.25	3.88	5.56	5.05	2.00	5.66	0.44	2.00	5.69		5.69	1.69
6	12.50	1.44	8.50	8.12	12-0.88	10.62	3.88	6.63	6.07	2.06	6.72	0.50	2.06	6.75		6.75	1.81
8	15.00	1.62	10.62	10.25	12-1.00	13.00	4.38	8.63	7.98	2.44	8.72	0.50	2.44	8.75		8.75	2.00
10	17.50	1.88	12.75	12.62	16-1.12	15.25	4.62	10.75	10.02	2.62	10.88	0.50	3.75	10.92		10.88	2.19
12	20.50	2.00	15.00	14.75	16-1.25	17.75	5.12	12.75	12.00	2.88	12.88	0.50	4.00	12.92		12.94	2.38
14	23.00	2.12	16.25	16.75	20-1.25	20.25	5.62	14.00	To Be Specified by Purchaser	3.00	14.14	0.50	4.38	14.18		14.19	2.50
16	25.50	2.25	18.50	19.00	20-1.38	22.50	5.75	16.00		3.25	16.16	0.50	4.75	16.19		16.19	2.69
18	28.00	2.38	21.00	21.00	24-1.38	24.75	6.25	18.00		3.50	18.18	0.50	5.12	18.20		18.19	2.75
20	30.50	2.50	23.00	23.12	24-1.38	27.00	6.38	20.00		3.75	20.20	0.50	5.50	20.25		20.19	2.88
24	36.00	2.75	27.25	27.62	24-1.62	32.00	6.62	24.00		4.19	24.25	0.50	6.00	24.25		24.19	3.25

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

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Weight (L.B.S.)***

Pressure Class	Nom. Size Pipe	Weld Neck	Slip-On	Thd.	Lap Joint	Blind	Socket
300	1/2	2	1.5	1.5	1.5	2	3
	3/4	3	2.5	2.5	2.5	3	3
	1	4	3	3	3	4	3
	11/4	5	4.5	4.5	4.5	6	4
	11/2	7	6.5	6.5	6.5	7	6
	2	8	7	7	7	8	7
	21/2	12	10	10	10	12	10
	3	18	13	14	14.5	16	13
	31/2	20	16	16	16	21	
	4	26.5	23.5	24	24	28	
	5	36	29	31	26	37	
	6	45	36	36	38	48	
	8	69	56	56	55	79	
	10	100	77	80	88	122	
	12	142	113	110	139	183	
	14	206	159	164	184	241	
	16	249	210	220	234	315	
	18	306	253	280	305	414	
	20	369	307	325	375	515	
	24	579	490	490	530	800	

All dimensions given in inches.

Dimensions & tolerances in accordance with ANSI B16.5. Carbon steel flanges mechanical properties and chemistry conform to ASTM A105.

Flanges are furnished faced, drilled and spot faced or back faced.

*1/16 in. raised face included in dimensions Q, Y and YY.

**Bolt hole diameter 1/8 in. larger than bolt diameter.

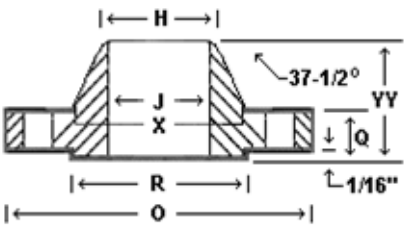
***Weights listed are approximate values.

**** To be specified by the customer.

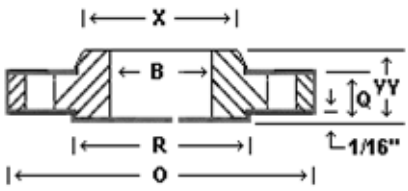
Flange Types

Thermometricscorp.com

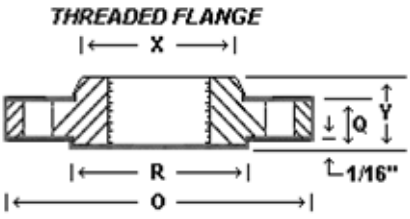
WELD NECK FLANGE



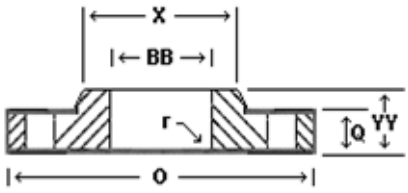
SLIP-ON FLANGE



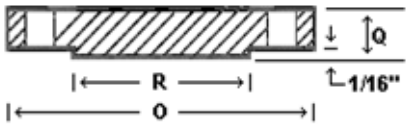
THREADED FLANGE



LAP JOINT FLANGE



BLIND FLANGE



SOCKET FLANGE