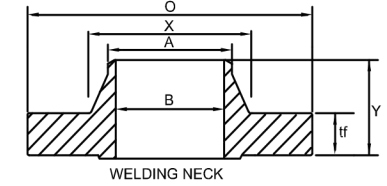
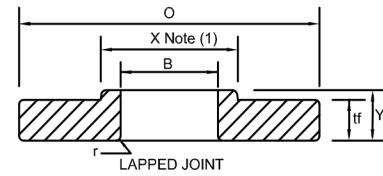
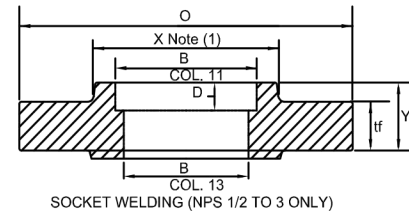
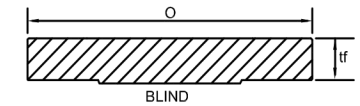
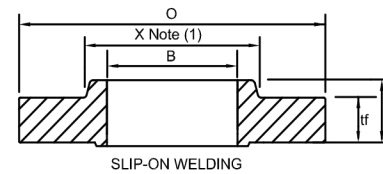
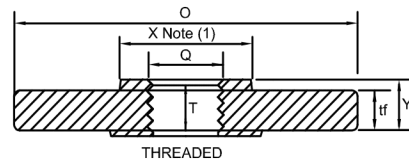


FLANGES CLASS 300



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
SIZE	FLANGE			LENGTH THROUGH HUB					BORE						
		Thickness of Flange	Thickness of		Diameter of Hub	Threaded			Thread Length	Slip-on		Welding	Corner Radius	Counter- bore	
	Outside Diameter	Min., tf	Lap Joint	Diameter of Hub	of welding A	Socket Welding	Lapped Joint	Welding Neck	Min., T	Socket Welding	Lapped Joint	Socket Welding	of Bore of Lapped Joint	Flange Threaded	Depth of
Nominal Pipe Size	O	[Note (2)-(4)]	tf	X	[note (5)]	Y	Y	Y	[Note 5]	B	B	[Note (6)]	Pipe r	Flange Min., Q	Socket D
1/2	3.75	0.50	0.56	1.50	0.84	0.81	0.88	2.00	0.62	0.88	0.90	0.62	0.12	0.93	0.38
3/4	4.62	0.56	0.62	1.88	1.05	0.94	1.00	2.19	0.62	1.09	1.11	0.82	0.12	1.14	0.44
1	4.88	0.62	0.69	2.12	1.32	1.00	1.06	2.38	0.69	1.36	1.38	1.05	0.12	1.41	0.50
1 1/4	5.25	0.69	0.75	2.50	1.66	1.00	1.06	2.50	0.81	1.70	1.72	1.38	0.19	1.75	0.56
1 1/2	6.12	0.75	0.81	2.75	1.90	1.13	1.19	2.63	0.88	1.95	1.97	1.61	0.25	1.98	0.62
2	6.50	0.81	0.88	3.31	2.38	1.25	1.31	2.69	1.12	2.44	2.46	2.07	0.31	2.50	0.69
2 1/2	7.50	0.94	1.00	3.94	2.88	1.44	1.50	2.94	1.25	2.94	2.97	2.47	0.31	3.00	0.75
3	8.25	1.06	1.12	4.62	3.50	1.63	1.69	3.06	1.25	3.57	3.60	3.07	0.38	3.63	0.81
3 1/2	9.00	1.12	1.19	5.25	4.00	1.69	1.75	3.13	1.44	4.07	4.10	3.55	0.38	4.13	...
4	10.00	1.19	1.25	5.75	4.50	1.82	1.88	3.32	1.44	4.57	4.60	4.03	0.44	4.63	...
5	11.00	1.31	1.38	7.00	5.56	1.94	2.00	3.82	1.69	5.66	5.69	5.05	0.44	5.69	...
6	12.50	1.38	1.44	8.12	6.63	2.00	2.06	3.82	1.81	6.72	6.75	6.07	0.50	6.75	...
8	15.00	1.56	1.62	10.25	8.63	2.38	2.44	4.32	2.00	8.72	8.75	7.98	0.50	8.75	...
10	17.50	1.81	1.88	12.62	10.75	2.56	3.75	4.56	2.19	10.88	10.92	10.02	0.50	10.88	...
12	20.50	1.94	2.00	14.75	12.75	2.82	4.00	5.06	2.38	12.88	12.92	12.00	0.50	12.94	...
14	23.00	2.06	2.12	16.75	14.00	2.94	4.38	5.56	2.50	14.14	14.18	To	0.50	14.19	...
16	25.50	2.19	2.25	19.00	16.00	3.19	4.75	5.69	2.69	16.16	16.19	be	0.50	16.19	...
18	28.00	2.31	2.38	21.00	18.00	3.44	5.12	6.19	2.75	18.18	18.20	Specified	0.50	18.19	...
20	30.50	2.44	2.50	23.12	20.00	3.69	5.50	6.32	2.88	20.20	20.25	by	0.50	20.19	...
24	36.00	2.69	2.75	27.62	24.00	4.13	6.00	6.56	3.25	24.25	24.25	Purchaser	0.50	...	...

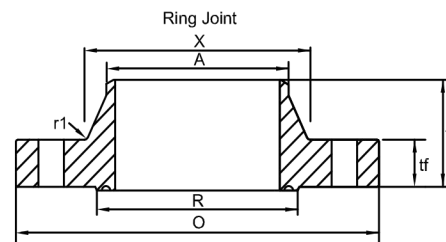
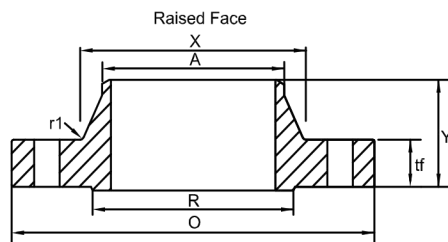
NOTES:

- (1) This dimension is for large end of hub, which may be straight or tapered. Taper shall not exceed 7 deg on threaded, slip-on, socket-welding, and lapped flanges. This dimension is defined as the diameter at the intersection between the hub taper and the back face of the flange.
- (2) These flanges may be supplied with a flat face. The flat face may be either the full tf dimension thickness plus 0.06 in. or the tf dimension thickness without the raised face height. See para. 6.3.2. for additional restrictions.
- (3) The flange dimensions illustrated are for regularly furnished 0.06 in. raised face (except lapped); for requirements of other facings, see Fig F7
- (4) For welding end bevel, see para. 6.7.
- (5) For thread of threaded flanges, see para. 6.9
- (6) Dimensions in Column 13 correspond to the inside diameters of pipe as give ASME B36.10M for Standard Wall pipe. Standard Wall dimensions are the same as Schedule 40 in sizes NPS 10 and smaller. Tolerances in para. 7.5.2 apply. These bore size are furnished unless otherwise specified by the purchaser.

GENERAL NOTES:

- (a) Dimensions of Table are in inches.
- (b) For tolerances, see para. 7.
- (c) For facings, see para. 6.4.
- (d) For flange bolt holes, see para. 6.5 and Table F10.
- (e) For spot facing, see para. 6.6.
- (f) For reducing threaded and slip-on flanges, see Table F6.
- (g) Blind flanges may be made with or without hubs at the manufacturer's option.
- (h) For reducing welding neck flanges, see para. 6.8.

FLANGES CLASS 300 SERIES A



Nominal Pipe Size	O.D. of Flange, O	Minimum Thickness of Flange, tf [Note(1)]		Length Through Hub, Y	Diam. Of Hub, X [Note (2)]	Hub Diam. Top, A [Note (3)]	Raised Face Diam., R	Drilling			Diam. of Bolt	Minimum Fillet Radius, r1
								Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Hole		
26	38.25	3.07	3.25	7.19	28.38	26.00	29.50	34.50	28	1 3/4	1 5/8	0.38
28	40.75	3.32	3.50	7.69	30.50	28.00	31.50	37.00	28	1 3/4	1 5/8	0.44
30	43.00	3.57	3.69	8.19	32.56	30.00	33.75	39.25	28	1 7/8	1 3/4	0.44
32	45.25	3.82	3.88	8.69	34.69	32.00	36.00	41.50	28	2	1 7/8	0.44
34	47.50	3.94	4.07	9.07	36.88	34.00	38.00	43.50	28	2	1 7/8	0.50
36	50.00	4.07	4.32	9.44	39.00	36.00	40.25	46.00	32	2 1/8	2	0.50
38	46.00	4.19	4.19	7.06	39.12	38.00	40.50	43.00	32	1 5/8	1 1/2	0.50
40	48.75	4.44	4.44	7.56	41.25	40.00	42.75	45.50	32	1 3/4	1 5/8	0.50
42	50.75	4.63	4.63	7.82	43.25	42.00	44.75	47.50	32	1 3/4	1 5/8	0.50
44	53.25	4.82	4.82	8.06	45.25	44.00	47.00	49.75	32	1 7/8	1 3/4	0.50
46	55.75	5.00	5.00	8.44	47.38	46.00	49.00	52.00	28	2	1 7/8	0.50
48	57.75	5.19	5.19	8.75	49.38	48.00	51.25	54.00	32	2	1 7/8	0.50
50	60.25	5.44	5.44	9.07	51.38	50.00	53.50	56.25	32	2 1/8	2	0.50
52	62.25	5.63	5.63	9.32	53.38	52.00	55.50	58.25	32	2 1/8	2	0.50
54	65.25	5.94	5.94	9.88	55.50	54.00	57.75	61.00	28	2 3/8	2 1/4	0.50
56	67.25	6.00	6.00	10.19	57.62	56.00	59.75	63.00	28	2 3/8	2 1/4	0.50
58	69.25	6.19	6.19	10.44	59.62	58.00	62.00	65.00	32	2 3/8	2 1/4	0.50
60	71.25	6.38	6.38	10.69	61.62	60.00	64.00	67.00	32	2 3/8	2 1/4	0.50

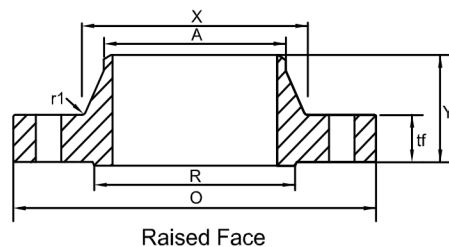
GENERAL NOTES:

- Dimensions are in inches.
- For tolerances, see section 7.
- For facings, see para. 6.1.
- For flange bolt holes, see para. 6.2.
- For spot facing, see para. 6.3.
- The bore is to be specified by the purchaser. Tolerances in para 7.3.2 apply.
- Blind flanges may be made with or without hubs at the manufacturer's option.

NOTES:

- The minimum flange thickness does not include the raised face thickness (see para. 6.1.1).
- This dimension is for the large end of hub, which may be straight or tapered.
- For welding and bevel, see para. 6.4.

FLANGES CLASS 300 SERIES B



Raised Face



BLIND

		Minimum Thickness of Flange, tf [Note(1)]										
Nominal Pipe Size	O.D. of Flange, O			Length Through	Diam. Of Hub, X	Hub Diam. Top, A	Raised Face	Drilling				Minimum Fillet Radius, r1
				Hub, Y	[Note (2)]	[Note (3)]	Diam., R	Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Hole	Diam. of Bolt	
26	34.12	3.44	3.44	5.63	27.62	26.19	29.00	31.62	32	1 3/8	1 1/4	0.56
28	36.25	3.44	3.44	5.81	29.75	28.19	31.00	33.75	36	1 3/8	1 1/4	0.56
30	39.00	3.63	3.63	6.16	32.00	30.25	33.25	36.25	36	1 1/2	1 3/8	0.56
32	41.50	4.00	4.00	6.56	34.00	32.25	35.50	38.50	32	1 5/8	1 1/2	0.62
34	43.62	4.00	4.00	6.75	36.12	34.25	37.50	40.62	36	1 5/8	1 1/2	0.62
36	46.12	4.00	4.00	7.06	38.00	36.25	39.75	42.88	32	1 3/4	1 5/8	0.62
38	48.12	4.31	4.31	7.50	40.00	38.25	41.75	44.88	36	1 3/4	1 5/8	0.62
40	50.12	4.50	4.50	7.75	42.00	40.25	43.88	46.88	40	1 3/4	1 5/8	0.62
42	52.50	4.63	4.63	8.00	44.00	42.31	46.00	49.00	36	1 7/8	1 3/4	0.62
44	54.50	4.94	4.94	8.38	46.19	44.31	48.00	51.00	40	1 7/8	1 3/4	0.62
46	57.50	5.00	5.06	8.69	48.38	46.31	50.00	53.75	36	2	1 7/8	0.62
48	59.50	5.00	5.25	8.75	50.31	48.31	52.25	55.75	40	2	1 7/8	0.62
50	61.50	5.38	5.44	9.19	52.38	50.31	54.25	57.75	44	2	1 7/8	0.62
52	63.50	5.56	5.61	9.50	54.44	52.31	56.25	59.75	48	2	1 7/8	0.62
54	65.88	5.32	5.81	9.38	56.50	54.31	58.25	62.12	48	2	1 7/8	0.62
56	69.50	6.00	6.12	10.50	58.81	56.31	60.50	65.00	36	2 3/8	2 1/4	0.69
58	71.94	6.00	6.31	10.75	60.94	58.31	62.75	67.44	40	2 3/8	2 1/4	0.69
60	73.94	5.88	6.50	10.63	62.94	60.31	65.00	69.44	40	2 3/8	2 1/4	0.69

GENERAL NOTES:

- Dimensions are in inches.
- For tolerances, see section 7.
- For facings, see para. 6.1.
- For flange bolt holes, see para. 6.2.
- For spot facing, see para. 6.3.
- The bore is to be specified by the purchaser. Tolerances in para 7.3.2 apply.
- Blind flanges may be made with or without hubs at the manufacturer's option.

NOTES:

- The minimum flange thickness does not include the raised face thickness (see para. 6.1.1).
- This dimension is for the large end of hub, which may be straight or tapered.
- For welding and bevel, see para. 6.4.