



Texas Flange

Product Catalog

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TEXAS FLANGE CATALOG

This Page is Linkable. This Catalog is Printable.

- ANSI B16.5 (1/2" - 24")- 150, 300, 400, 600, 900, 1500, 2500, weights— 150 & 300, 400 & 600, 900 thru 2500
- Flange Tolerances
- ANSI B 16.47 Note
- ANSI B 16.47 Series A Class 150, 300, 400, 600, 900
- ANSI B16.47 Series B Class 75, 150, 300, 400, 600, 900
- ANSI B16.1- Industry Standard - Class 125LW, 125 SO, 125WN, 250
- Boiler Code Flanges - Class 75 SO, 75 WN, 175, 350
- Orifice Union B 16.36 - Class 300 WN, SO, Threaded, WN - 400, 600, 900, 1500, 2500
- AWWA C207-Class 1B, 2D, 3D, 4E, 5E, 6F
- Long Weld Necks - 150, 300, 400, 600, 900, 1500, 2500
- Studding Outlets - 150, 300, 600, 900, 1500, 2500
- Spectacle Blinds - 150, 300, 600, 900
- Wall Thickness and Bore Chart
- RTJ Face Dimensions
- Alternate Flange Facings
- Bolting Chart

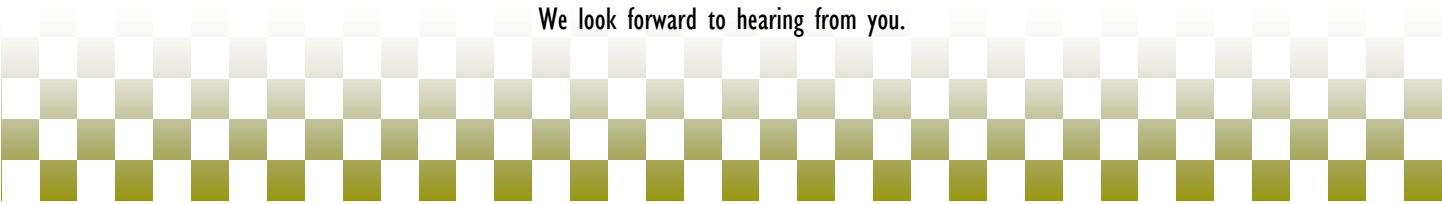
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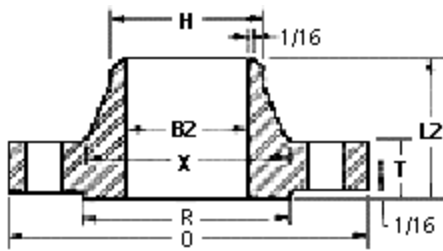
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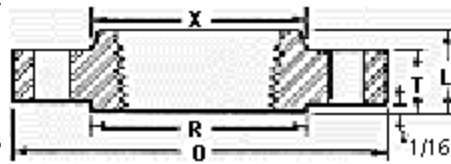
We look forward to hearing from you.



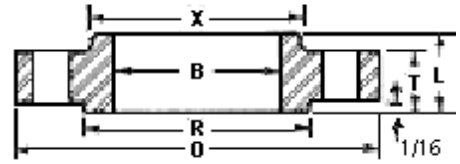
ANSI B16.5 Class 150 Forged Flanges



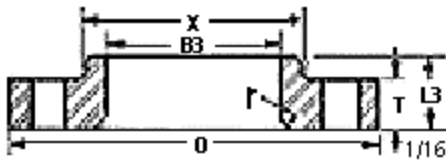
Weld Neck



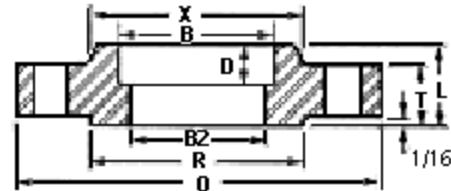
Threaded



Slip-On



Lap Joint



Socket Weld



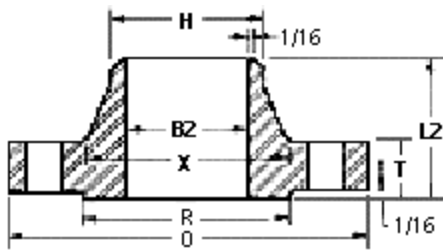
Blind

Nom. Pipe Size	O	T ₁	R	X	No. ₂ /Dia. of Holes	Bolt Circle Dia.	L2 ₁	H	B2 ₃	L	B	r	L3 ₄	B3	D
½	3.5	.44	1.38	1.19	4-0.62	2.38	1.88	.84	.62	.62	.88	.12	.62	.9	.38
¾	3.88	.5	1.69	1.5	4-0.62	2.75	2.06	1.05	.82	.62	1.09	.12	.62	1.11	.44
1	4.25	.56	2	1.94	4-0.62	3.12	2.19	1.32	1.05	.69	1.36	.12	.69	1.38	.5
1¼	4.62	.62	2.5	2.31	4-0.62	3.5	2.25	1.66	1.38	.81	1.70	.19	.81	1.72	.56
1½	5	.68	2.88	2.56	4-0.62	3.88	2.44	1.9	1.61	.88	1.95	.25	.88	1.97	.62
2	6	.75	3.62	3.06	4-0.75	4.75	2.5	2.38	2.07	1	2.44	.31	1	2.46	.69
2½	7	.88	4.12	3.56	4-0.75	5.5	2.75	2.88	2.47	1.12	2.94	.31	1.12	2.97	.75
3	7.5	.94	5	4.25	4-0.75	6	2.75	3.5	3.07	1.19	3.57	.38	1.19	3.6	.81
3½	8.5	.94	5.5	4.81	8-0.75	7	2.81	4	3.55	1.25	4.07	.38	1.25	4.1	.88
4	9	.94	6.19	5.31	8-0.75	7.5	3	4.5	4.03	1.31	4.57	.44	1.31	4.6	.94
5	10	.94	7.31	6.44	8-0.88	8.5	3.5	5.56	5.05	1.44	5.66	.44	1.44	5.69	.94
6	11	1	8.5	7.56	8-0.88	9.5	3.5	6.63	6.07	1.56	6.72	.5	1.56	6.75	1.06
8	13.5	1.12	10.62	9.69	8-0.88	11.75	4	8.63	7.98	1.75	8.72	.5	1.75	8.75	1.25
10	16	1.19	12.75	12	12-1.00	14.25	4	10.75	10.02	1.94	10.88	.5	1.94	10.92	1.31
12	19	1.25	15	14.38	12-1.00	17	4.5	12.75	12	2.19	12.88	.5	2.19	12.92	1.56
14	21	1.38	16.25	15.75	12-1.12	18.75	5	14	13.25	2.25	14.14	.5	3.12	14.18	1.63
16	23.5	1.44	18.5	18	16-1.12	21.25	5	16	15.25	2.5	16.16	.5	3.44	16.19	1.75
18	25	1.56	21	19.88	16-1.25	22.75	5.5	18	17.25	2.69	18.18	.5	3.81	18.20	1.94
20	27.5	1.69	23	22	20-1.25	25	5.69	20	19.25	2.88	20.2	.5	4.06	20.25	2.13
22	29.5	1.81	25.25	24.25	20-1.38	27.25	5.88	22	21.25	3.13	22.22	.5	4.25	22.25	2.38
24	32	1.88	27.25	26.12	20-1.38	29.5	6	24	23.25	3.25	24.25	.5	4.38	24.25	2.50

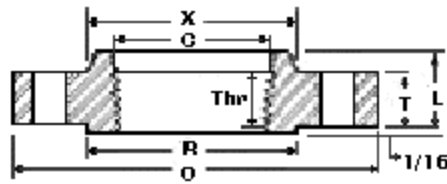
Dimensions in inches.

- 1- 1/16 in. raised face included in dimensions T, L and L2.
- 2- Bolt hole diameter 1/8 in. larger than bolt diameter.
- 3- Standard Bore dimensions provided.
- 4- This dimension is commonly associated with "true" Lap Joints. Industry standard is to make to the slip on length thru the hub.

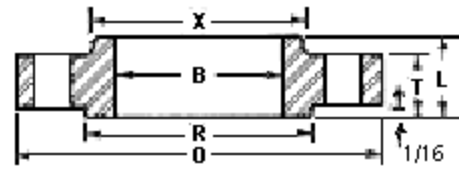
ANSI B16.5 Class 300 Forged Flanges



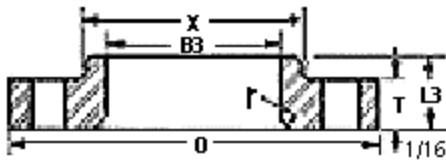
Weld Neck



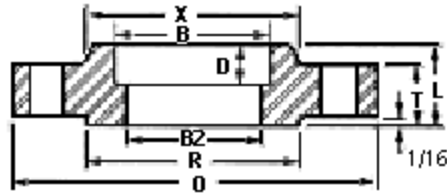
Threaded



Slip-On



Lap Joint



Socket Weld



Blind

Nom. Pipe Size	O	T ₁	R	X	No. 2 & Dia. of Holes	Bolt Circle Dia.	L2 ₁	H	B2 ₃	L	B	r	L3 ₄	B3	D	C	Thr
½	3.75	0.56	1.38	1.5	4-0.62	2.62	2.06	0.84	0.62	0.88	0.88	0.12	0.88	0.9	0.38	0.93	0.62
¾	4.62	0.62	1.69	1.88	4-0.75	3.25	2.25	1.05	0.82	1	1.09	0.12	1	1.11	0.44	1.14	0.62
1	4.88	0.69	2	2.12	4-0.75	3.5	2.44	1.32	1.05	1.06	1.36	0.12	1.06	1.38	0.5	1.41	0.69
1¼	5.25	0.75	2.5	2.5	4-0.75	3.88	2.56	1.66	1.38	1.06	1.7	0.19	1.06	1.72	0.56	1.75	0.81
1½	6.12	0.81	2.88	2.75	4-0.88	4.5	2.69	1.9	1.61	1.19	1.95	0.25	1.19	1.97	0.62	1.99	0.88
2	6.5	0.88	3.62	3.31	8-0.75	5	2.75	2.38	2.07	1.31	2.44	0.31	1.31	2.46	0.69	2.5	1.12
2½	7.5	1	4.12	3.94	8-0.88	5.88	3	2.88	2.47	1.5	2.94	0.31	1.5	2.97	0.75	3	1.25
3	8.25	1.12	5	4.62	8-0.88	6.62	3.12	3.5	3.07	1.69	3.57	0.38	1.69	3.6	0.81	3.63	1.25
3½	9	1.19	5.5	5.25	8-0.88	7.25	3.19	4	3.55	1.75	4.07	0.38	1.75	4.1		4.13	1.44
4	10	1.25	6.19	5.75	8-0.88	7.88	3.38	4.5	4.03	1.88	4.57	0.44	1.88	4.6		4.63	1.44
5	11	1.38	7.31	7	8-0.88	9.25	3.88	5.56	5.05	2	5.66	0.44	2	5.69		5.69	1.69
6	12.5	1.44	8.5	8.12	12-0.88	10.62	3.88	6.63	6.07	2.06	6.72	0.5	2.06	6.75		6.75	1.81
8	15	1.62	10.62	10.25	12-1.00	13	4.38	8.63	7.98	2.44	8.72	0.5	2.44	8.75		8.75	2
10	17.5	1.88	12.75	12.62	16-1.12	15.25	4.62	10.75	10.02	2.62	10.88	0.5	3.75	10.92		10.88	2.19
12	20.5	2	15	14.75	16-1.25	17.75	5.12	12.75	12.00	2.88	12.88	0.5	4	12.92		12.94	2.38
14	23	2.12	16.25	16.75	20-1.25	20.25	5.62	14	13.25	3	14.14	0.5	4.38	14.18		14.19	2.5
16	25.5	2.25	18.5	19	20-1.38	22.5	5.75	16	15.25	3.25	16.16	0.5	4.75	16.19		16.19	2.69
18	28	2.38	21	21	24-1.38	24.75	6.25	18	17.25	3.5	18.18	0.5	5.12	18.2		18.19	2.75
20	30.5	2.5	23	23.12	24-1.38	27	6.38	20	19.25	3.75	20.2	0.5	5.5	20.25		20.19	2.88
22	33	2.63	25.25	25.25	24-1.63	29.25	6.5	22	21.25	4.00	22.22	0.5	5.75	22.25		22.19	3.13
24	36	2.75	27.25	27.62	24-1.62	32	6.62	24	23.25	4.19	24.25	0.5	6	24.25		24.19	3.25

Dimensions in inches.

1- 1/16 in. raised face included in dimensions T, L and L2.

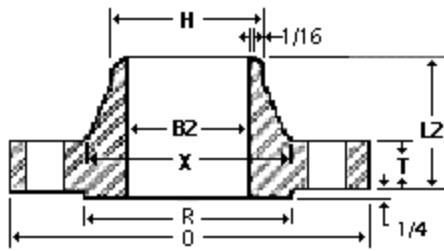
2- Bolt hole diameter 1/8 in. larger than bolt diameter.

3- Standard Bore dimensions provided.

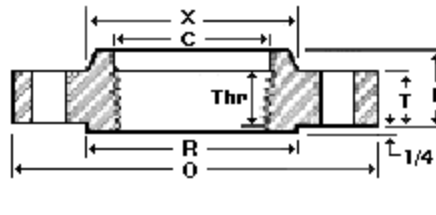
4- This dimension is commonly associated with "true" Lap Joints. Industry standard is to make to the slip on length thru the hub.

Texas Flange 800-826-3801

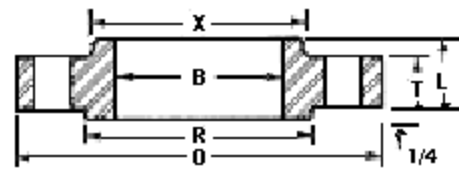
ANSI B16.5 Class 400 Forged Flanges



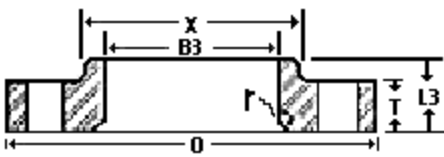
Weld Neck



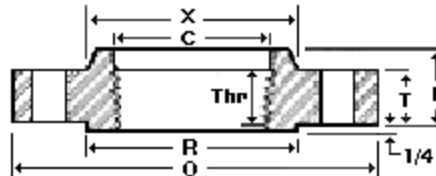
Threaded



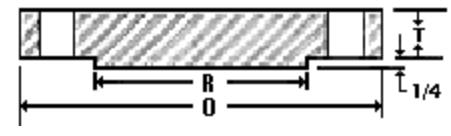
Slip- On



Lap Joint



Socket Weld



Blind

Nom. Pipe Size	O	T ₁	R	X	No.2 & Dia. of Holes	Bolt Circle Dia.	L2 ₁	H	B2	L	B	r	L3	B3	D	C	Thr
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	0.9	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	S l i p o n b y P u r c h a s e r	1	1.09	0.12	1	1.11	0.44	1.14	0.62
1	4.88	0.69	2	2.12	4-0.75	3.5	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	2.5	2.5	4-0.75	3.88	2.62	1.66		1.12	1.7	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	4.5	2.75	1.9		1.25	1.95	0.25	1.25	1.97	0.62	1.99	0.88
2	6.5	1	3.62	3.31	8-0.75	5	2.88	2.38		1.44	2.44	0.31	1.44	2.46	0.69	2.5	1.12
2 1/2	7.5	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	1.25
3	8.25	1.25	5	4.62	8-0.88	6.62	3.25	3.5		1.81	3.57	0.38	1.81	3.6	0.81	3.63	1.38
3 1/2	9	1.38	5.5	5.25	8-1.00	7.25	3.38	4		1.94	4.07	0.38	1.94	4.1		4.13	1.56
4	10	1.38	6.19	5.75	8-1.00	7.88	3.5	4.5		2	4.57	0.44	2	4.6		4.63	1.44
5	11	1.5	7.31	7	8-1.00	9.25	4	5.56		2.12	5.66	0.44	2.12	5.69		5.69	1.69
6	12.5	1.62	8.5	8.12	12-1.00	10.62	4.06	6.63	P u r c h a s e r	2.25	6.72	0.5	2.25	6.75		6.75	1.81
8	15	1.88	10.62	10.25	12-1.12	13	4.62	8.63		2.69	8.72	0.5	2.69	8.75		8.75	2
10	17.5	2.12	12.75	12.62	16-1.25	15.25	4.88	10.75		2.88	10.88	0.5	4	10.92		10.88	2.19
12	20.5	2.25	15	14.75	16-1.38	17.75	5.38	12.75		3.12	12.88	0.5	4.25	12.92		12.94	2.38
14	23	2.38	16.25	16.75	20-1.38	20.25	5.88	14		3.31	14.14	0.5	4.62	14.18		14.19	2.5
16	25.5	2.5	18.5	19	20-1.50	22.5	6	16		3.69	16.16	0.5	5	16.19		16.19	2.69
18	28	2.62	21	21	24-1.50	24.75	6.5	18		3.88	18.18	0.5	5.38	18.2		18.19	2.75
20	30.5	2.75	23	23.12	24-1.62	27	6.62	20		4	20.2	0.5	5.75	20.25		20.19	2.88
22	33	2.88	25.25	25.25	24-1.75	29.25	6.75	22	r	4.25	22.22	0.5	6	22.25		--	--
24	36	3	27.25	27.62	24-1.88	32	6.88	24		4.5	24.25	0.5	6.25	24.25		24.19	3.25

Dimensions in inches.

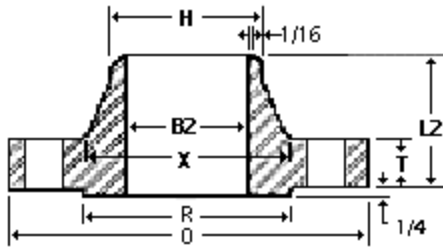
Sizes NPS 1/2 through 3-1/2 are same as Class 600 flanges.

1- 1/4 in. raised face not included in dimensions T, L and L2.

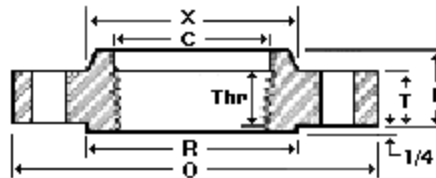
2- Bolt hole diameter 1/8 in. larger than bolt diameter.

Texas Flange 800-826-3801

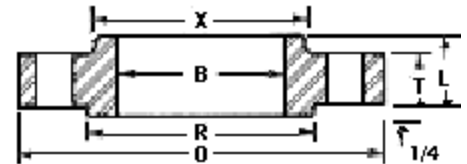
ANSI B16.5 Class 600 Forged Flanges



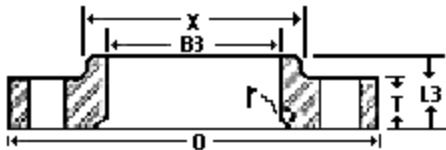
Weld Neck



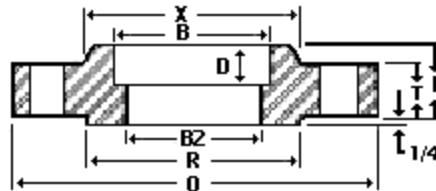
Threaded



Slip-On



Lap Joint



Socket Weld



Blind

Nom. Pipe Size	O	T ₁	R	X	No. ² and Dia. of Bolt Holes	Bolt Circle Dia.	L ₂ ¹	H	B2	L	B	r	L3	B3	D	C	Thr
1/2	3.75	0.56	1.38	1.5	4-0.62	2.62	2.06	0.84	To	0.88	0.88	0.12	0.88	0.9	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	Be	1	1.09	0.12	1	1.11	0.44	1.14	0.62
1	4.88	0.69	2	2.12	4-0.75	3.5	2.44	1.32	S	1.06	1.36	0.12	1.06	1.38	0.5	1.41	0.69
1 1/4	5.25	0.81	2.5	2.5	4-0.75	3.88	2.62	1.66	p	1.12	1.7	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	4.5	2.75	1.9	e	1.25	1.95	0.25	1.25	1.97	0.62	1.99	0.88
2	6.5	1	3.62	3.31	8-0.75	5	2.88	2.38	c	1.44	2.44	0.31	1.44	2.46	0.69	2.5	1.12
2 1/2	7.5	1.12	4.12	3.94	8-0.88	5.88	3.12	2.88	i	1.62	2.94	0.31	1.62	2.97	0.75	3	1.25
3	8.25	1.25	5	4.62	8-0.88	6.62	3.25	3.5	f	1.81	3.57	0.38	1.81	3.6	0.81	3.63	1.38
3 1/2	9	1.38	5.5	5.25	8-1.00	7.25	3.38	4	i	1.94	4.07	0.38	1.94	4.1		4.13	1.56
4	10.75	1.5	6.19	6	8-1.00	8.5	4	4.5	e	2.12	4.57	0.44	2.12	4.6		4.63	1.62
5	13	1.75	7.31	7.44	8-1.12	10.5	4.5	5.56	d	2.38	5.66	0.44	2.38	5.69		5.69	1.88
6	14	1.88	8.5	8.75	12-1.12	11.5	4.62	6.63	by	2.62	6.72	0.5	2.62	6.75		6.75	2
8	16.5	2.19	10.62	10.75	12-1.25	13.75	5.25	8.63	p	3	8.72	0.5	3	8.75		8.75	2.25
10	20	2.50	12.75	13.5	16-1.38	17	6	10.75	u	3.38	10.88	0.5	4.38	10.92		10.88	2.56
12	22	2.62	15	15.75	20-1.38	19.25	6.12	12.75	r	3.62	12.88	0.5	4.62	12.92		12.94	2.75
14	23.75	2.75	16.25	17	20-1.50	20.75	6.5	14	c	3.69	14.14	0.5	5	14.18		14.19	2.88
16	27	3.00	18.5	19.5	20-1.62	23.75	7	16	h	4.19	16.16	0.5	5.5	16.19		18.19	3.06
18	29.25	3.25	21	21.5	20-1.75	25.75	7.25	18	a	4.62	18.18	0.5	6	18.2		18.1	3.12
20	32	3.5	23	24	24-1.75	28.5	7.5	20	s	5	20.2	0.5	6.5	20.25		20.19	3.25
22	34.25	3.75	25.25	26.25	24-1.75	30.63	7.75	22	e	5.25	22.22	0.5	6.88	22.25		--	--
24	37	4	27.25	28.25	24-2.00	33	8	24	r	5.5	24.25	0.5	7.25	24.25		24.19	3.62

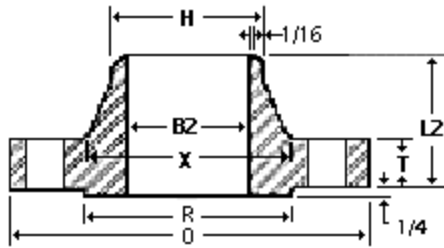
Dimensions in inches.

Sizes NPS 1/2 through 3-1/2 are same as Class 400 flanges.

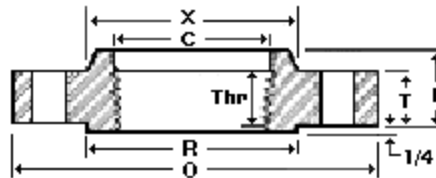
1- 1/4 in. raised face not included in dimensions T, L and L2.

2- Bolt hole diameter 1/8 in. larger than bolt diameter.

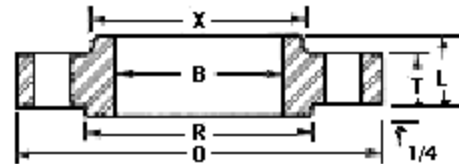
ANSI B16.5 Class 900 Forged Flanges



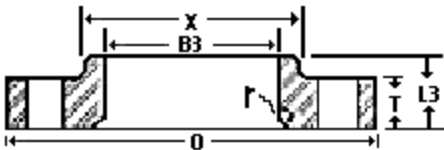
Weld Neck



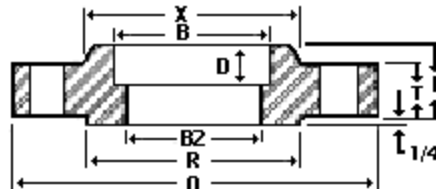
Threaded



Slip-On



Lap Joint



Socket Weld



Blind

Nom. Pipe Size	O	T ₁	R	X	No. ² and Dia. of Bolt Holes	Bolt Circle Dia.	L ₂ ¹	H	B ₂	L	B	r	L ₃	B ₃	Thr
Sizes 1/2" Thru 2 1/2" Are Identical To Class 1500															
3	9.50	1.50	5.00	5.00	8-1.00	7.50	4.00	3.5	Specified by purchaser	2.13	3.57	0.38	2.13	3.6	1.63
4	11.50	1.75	6.19	6.25	8-1.25	9.25	4.50	4.5		2.75	4.57	0.44	2.75	4.6	1.88
5	13.75	2.00	7.31	7.50	8-1.38	11.00	5.00	5.56		3.13	5.66	0.44	3.13	5.69	2.13
6	15.00	2.19	8.50	9.25	12-1.25	12.50	5.50	6.63		3.38	6.72	0.5	3.38	6.75	2.25
8	18.50	2.50	10.63	11.75	12-1.50	15.50	6.38	8.63		4.00	8.72	0.5	4.50	8.75	2.50
10	21.50	2.75	12.75	14.50	16-1.50	18.50	7.25	10.75		4.25	10.88	0.5	5.00	10.92	2.81
12	24.00	3.13	15.00	16.50	20-1.50	21.00	7.88	12.75		4.63	12.88	0.5	5.63	12.92	3.00
14	25.25	3.38	16.25	17.75	20-1.63	22.00	8.38	14		5.13	14.14	0.5	6.13	14.18	3.25
16	27.75	3.50	18.50	20.00	20-1.75	24.25	8.50	16		5.25	16.16	0.5	6.50	16.19	3.38
18	31.00	4.00	21.00	22.25	20-2.00	27.00	9.00	18		6.00	18.18	0.5	7.50	18.2	3.50
20	33.75	4.25	23.00	24.50	20-2.13	29.50	9.75	20	Specified by purchaser	6.25	20.2	0.5	8.25	20.25	3.63
24	41.00	5.50	27.25	29.50	20-2.63	35.50	11.50	24		8.00	24.25	0.5	10.5	24.25	4.00

Dimensions in inches.

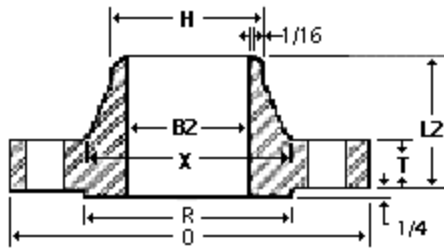
Sizes NPS 1/2 through 2-1/2 are same as Class 1500 flanges.

¹- 1/4 in. raised face not included in dimensions T, L and L₂.

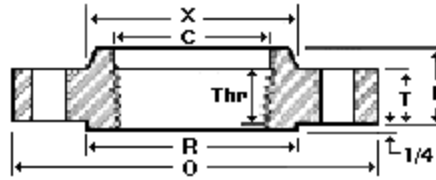
²- Bolt hole diameter 1/8 in. larger than bolt diameter.

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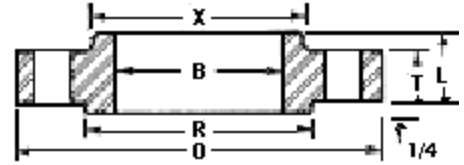
ANSI B16.5 Class 1500 Forged Flanges



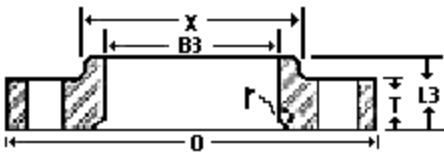
Weld Neck



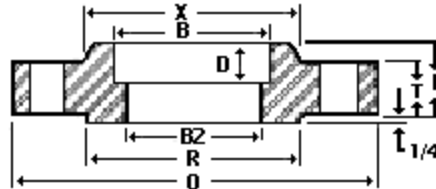
Threaded



Slip-On



Lap Joint



Socket Weld



Blind

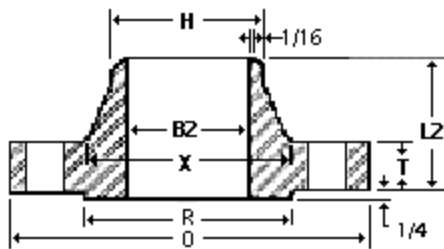
Nom. Pipe Size	O	T ¹	R	X	No.2 & Dia. of Bolt Holes	Bolt Circle Dia.	L ²	H	B2	L	B	r	L3	D	B3	Thr
1/2"	4.75	0.88	1.38	1.50	4-0.88	3.25	2.38	0.84	Specified by Purchaser	1.25	0.88	0.13	1.25	0.38	0.90	0.88
3/4	5.13	1.00	1.69	1.75	4-0.88	3.50	2.75	1.05		1.38	1.09	0.13	1.38	0.44	1.11	1.00
1	5.88	1.13	2.00	2.06	4-1.00	4.00	2.88	1.32		1.63	1.36	0.13	1.63	0.50	1.38	1.13
1 1/4	6.25	1.13	2.50	2.50	4-1.00	4.38	2.88	1.66		1.63	1.70	0.19	1.63	0.56	1.72	1.19
1 1/2	7.00	1.25	2.88	2.75	4-1.13	4.88	3.25	1.90		1.75	1.95	0.25	1.75	0.63	1.97	1.25
2	8.50	1.50	3.63	4.13	8-1.00	6.50	4.00	2.38		2.25	2.44	0.31	2.25	0.69	2.46	1.50
2 1/2	9.63	1.63	4.13	4.88	8-1.13	7.50	4.13	2.88		2.50	2.94	0.31	2.50	0.75	2.97	1.88
3	10.50	1.88	5.00	5.25	8-1.25	8.00	4.63	3.50		2.88	3.57	0.38	2.88	-	3.60	2.00
4	12.25	2.13	6.19	6.38	8-1.38	9.50	4.88	4.50		3.56	4.57	0.44	3.56	-	4.60	2.25
5	14.75	2.88	7.31	7.75	8-1.63	11.50	6.13	5.56		4.13	5.66	0.44	4.13	-	5.69	2.50
6	15.50	3.25	8.50	9.00	12-1.50	12.50	6.75	6.63		4.69	6.72	0.50	4.69	-	6.75	2.75
8	19.00	3.63	10.63	11.50	12-1.75	15.50	8.38	8.63		5.63	8.72	0.50	5.63	-	8.75	3.00
10	23.00	4.25	12.75	14.50	12-2.00	19.00	10.00	10.75		6.25	10.88	0.50	7.00	-	10.92	3.31
12	26.50	4.88	15.00	17.75	16-2.13	22.50	11.13	12.75		7.13	12.88	0.50	8.63	-	12.92	3.63
14	29.50	5.25	16.25	19.50	16-2.38	25.00	11.75	14.00		-	-	0.50	9.50	-	14.18	-
16	32.50	5.75	18.50	21.75	16-2.63	27.75	12.25	16.00		-	-	0.50	10.25	-	16.19	-
18	36.00	6.38	21.00	23.50	16-2.88	30.50	12.88	18.00		-	-	0.50	10.88	-	18.20	-
20	38.75	7.00	23.00	25.25	16-3.13	32.75	14.00	20.00		-	-	0.50	11.50	-	20.25	-
24	46.00	8.00	27.25	30.00	16-3.63	39.00	16.00	24.00		-	-	0.50	13.00	-	24.25	-

1- 1/4 in. raised face not included in dimensions T, L and L2.

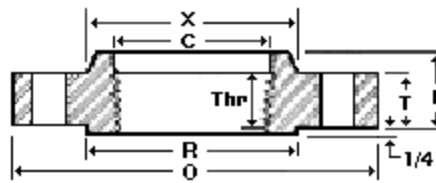
2- Bolt hole diameter 1/8 in. larger than bolt diameter.

Texas Flange 800-826-3801

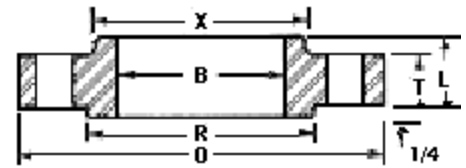
ANSI B16.5 Class 2500 Forged Flanges



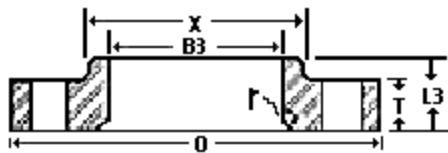
Weld Neck



Threaded



Slip- On



Lap Joint



Blind

Nom. Pipe Size	O	T ¹	R	X	No.2 & Dia. of Bolt Holes	Bolt Circle Dia.	L2 ¹	H	B2	L	B	r	L3	B3	Thr
1/2"	5.25	1.19	1.38	1.69	4-0.88	3.50	2.88	0.84	Specified by Purchaser	1.56	0.88	0.13	1.56	0.90	1.13
3/4	5.50	1.25	1.69	2.00	4-0.88	3.75	3.13	1.05		1.69	1.09	0.13	1.69	1.11	1.25
1	6.25	1.38	2.00	2.25	4-1.00	4.25	3.50	1.32		1.88	1.36	0.13	1.88	1.38	1.38
1 1/4	7.25	1.50	2.50	2.88	4-1.13	5.13	3.75	1.66		2.06	1.70	0.18	2.06	1.72	1.50
1 1/2	8.00	1.75	2.88	3.13	4-1.25	5.75	4.38	1.90		2.38	1.95	0.25	2.38	1.97	1.75
2	9.25	2.00	3.63	3.75	8-1.13	6.75	5.00	2.38		2.75	2.44	0.31	2.75	2.46	2.00
2 1/2	10.50	2.25	4.13	4.50	8-1.25	7.75	5.63	2.88		3.13	2.94	0.31	3.13	2.97	2.25
3	12.00	2.63	5.00	5.25	8-1.38	9.00	6.63	3.50		3.63	3.57	0.37	3.63	3.60	2.50
4	14.00	3.00	6.19	6.50	8-1.63	10.75	7.50	4.50		4.25	4.57	0.44	4.25	4.60	2.75
5	16.50	3.63	7.31	8.00	8-1.88	12.75	9.00	5.56		5.13	5.66	0.44	5.13	5.69	3.00
6	19.00	4.25	8.50	9.25	8-2.13	14.50	10.75	6.63		6.00	6.72	0.50	6.00	6.75	3.25
8	21.75	5.00	10.63	12.00	12-2.13	17.25	12.50	8.63		7.00	8.72	0.50	7.00	8.75	3.75
10	26.50	6.50	12.75	14.75	12-2.63	21.25	16.50	10.75		9.00	10.88	0.50	9.00	10.92	4.25
12	30.00	7.25	15.00	17.38	12-2.88	24.38	18.25	12.75		10.00	12.88	0.50	10.00	12.92	4.75

Dimensions in inches.

1- 1/4 in. raised face not included in dimensions T, L and L2.

2- Bolt hole diameter 1/8 in. larger than bolt diameter.

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FORGED FLANGES ANSI B16.5

APPROX. WEIGHT LIST

UNIT POUND AND (kg)

DIMENSIONS IN INCHES

CLASS	NOMINAL PIPE SIZE	SLIP ON TYPE				BLIND	WELDING NECK
		SLIP ON	THREADED	SOCKET	LAP JOINT		
150lb	1/2	1 (0.45)	1 (0.45)	2 (0.91)	1 (0.45)	2 (0.91)	2 (0.91)
	3/4	1-1/2 (0.68)	1-1/2 (0.68)	2 (0.91)	1-1/2 (0.68)	2 (0.91)	2 (0.91)
	1	2 (0.91)	2 (0.91)	2 (0.91)	2 (0.91)	2 (0.91)	2-1/2 (1.14)
	1-1/4	2-1/2 (1.14)	2-1/2 (1.14)	3 (1.36)	2-1/2 (1.14)	3 (1.36)	2-1/2 (1.14)
	1-1/2	3 (1.36)	3 (1.36)	3 (1.36)	3 (1.36)	3 (1.36)	4 (1.81)
	2	5 (2.18)	5 (2.27)	5 (2.27)	5 (2.27)	4 (1.82)	6 (2.72)
	2-1/2	8 (3.45)	8 (3.63)	7 (3.18)	8 (3.63)	7 (3.18)	10 (4.54)
	3	9 (4.01)	10 (4.54)	8 (3.63)	9 (4.09)	9 (4.09)	11-1/2 (5.22)
	3-1/2	11 (4.99)	12 (5.45)	11 (4.99)	11 (4.99)	13 (5.90)	12 (5.45)
	4	13 (5.63)	13 (5.90)	13 (5.90)	12 (5.45)	17 (7.72)	16-1/2 (7.49)
	5	15 (6.74)	15 (6.81)	15 (6.81)	13 (5.90)	20 (9.08)	21 (9.53)
	6	17 (7.90)	19-1/2 (8.85)	19 (8.63)	18 (8.17)	27 (12.26)	26 (11.80)
	8	28 (12.90)	30 (13.62)	30 (13.62)	28 (12.71)	47 (21.34)	42 (19.07)
	10	40 (17.60)	41 (18.61)	43 (19.52)	36 (16.34)	67 (30.42)	54 (24.52)
	12	61 (27.69)	65 (29.51)	64 (29.06)	60 (27.24)	123 (45.00)	88 (39.95)
	14	83 (37.68)	85 (38.59)	85 (38.59)	77 (34.96)	139 (63.11)	114 (51.76)
	16	106 (48.12)	93 (42.22)	93 (42.22)	104 (47.22)	187 (84.90)	142 (64.47)
	18	109 (49.49)	120 (54.48)	120 (54.48)	146 (66.28)	217 (98.52)	165 (74.90)
	20	148 (67.19)	155 (70.37)	155 (70.37)	159 (72.19)	283 (128.48)	197 (89.44)
	24	204 (92.62)	210 (95.34)	210 (95.34)	195 (88.53)	415 (188.41)	268 (121.67)
300lb	1/2	1-1/2 (0.68)	1-1/2 (0.68)	3 (1.36)	1-1/2 (0.68)	2 (0.91)	2 (0.91)
	3/4	2-1/2 (1.14)	2-1/2 (1.14)	3 (1.36)	2-1/2 (1.14)	3 (1.36)	3 (1.36)
	1	3 (1.36)	3 (1.36)	3 (1.36)	3 (1.36)	4 (1.82)	4 (1.82)
	1-1/4	4-1/2 (2.04)	4-1/2 (2.04)	4 (1.82)	4-1/2 (2.04)	6 (2.72)	5 (2.27)
	1-1/2	6-1/2 (2.95)	6-1/2 (2.95)	6 (2.72)	6-1/2 (2.95)	7 (3.18)	7 (3.18)
	2	7 (3.18)	7 (3.18)	7 (3.18)	7 (3.18)	8 (3.63)	8 (3.63)
	2-1/2	10 (4.54)	10 (4.54)	10 (4.54)	10 (4.54)	12 (5.45)	12 (5.45)
	3	13 (5.90)	14 (6.36)	13 (5.90)	14-1/2 (6.58)	16 (7.26)	18 (8.17)
	3-1/2	16 (7.26)	16 (7.26)	17 (7.72)	16 (7.26)	21 (9.53)	20 (9.10)
	4	23-1/2 (10.67)	24 (10.90)	22 (9.99)	24 (10.90)	28 (12.71)	26-1/2 (12.03)
	5	29 (13.17)	31 (14.07)	-	26 (11.80)	37 (16.80)	36 (16.34)
	6	36 (16.34)	36 (16.34)	-	38 (17.25)	48 (21.79)	45 (20.43)
	8	56 (25.42)	56 (25.42)	-	55 (24.97)	79 (35.87)	69 (31.33)
	10	77 (34.96)	80 (36.32)	-	88 (39.95)	122 (55.39)	100 (45.40)
	12	113 (51.30)	110 (49.94)	-	139 (63.11)	183 (83.08)	142 (64.47)
	14	159 (72.19)	164 (74.46)	-	184 (83.54)	241 (109.41)	206 (93.52)
	16	210 (95.34)	220 (99.88)	-	234 (106.24)	315 (143.01)	249 (113.05)
	18	253 (114.86)	280 (127.12)	-	305 (138.47)	414 (187.96)	306 (138.92)
	20	307 (139.38)	325 (147.55)	-	375 (170.25)	515 (233.81)	369 (167.53)
	24	490 (222.46)	490 (222.46)	-	530 (240.62)	800 (363.20)	519 (235.63)

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FORGED FLANGES ANSI B16.5

APPROX. WEIGHT LIST

UNIT POUND AND (kg)

DIMENSIONS IN INCHES

CLASS	NOMINAL PIPE SIZE	SLIP ON TYPE			BLIND	WELDING NECK
		SLIP ON	THREADED	LAP JOINT		
400lb	1/2	2 (0.91)	2 (0.91)	2 (0.91)	2 (0.91)	3 (1.36)
	3/4	3 (1.36)	3 (1.36)	3 (1.36)	3 (1.36)	3-1/2 (1.59)
	1	3-1/2 (1.59)	3-1/2 (1.59)	3-1/2 (1.59)	4 (1.82)	4 (1.82)
	1-1/4	4-1/2 (2.04)	4-1/2 (2.04)	4-1/2 (2.04)	6 (2.72)	5-1/2 (2.50)
	1-1/2	6-1/2 (2.95)	6-1/2 (2.95)	6-1/2 (2.95)	8 (3.63)	8 (3.63)
	2	8 (3.63)	8 (3.63)	8 (3.63)	10 (4.54)	10 (4.54)
	2-1/2	12 (5.45)	12 (5.45)	11 (4.99)	15 (6.81)	14 (6.36)
	3	15 (6.81)	15 (6.81)	14 (6.36)	20 (9.08)	18 (8.17)
	3-1/2	21 (9.53)	21 (9.53)	20 (9.08)	29 (13.17)	26 (11.80)
	4	24 (10.90)	24 (10.90)	22 (9.99)	33 (14.98)	30 (13.62)
	5	31 (14.07)	31 (14.07)	29 (13.17)	44 (19.98)	39 (17.71)
	6	39 (17.71)	39 (17.71)	37 (16.80)	61 (27.69)	49 (22.45)
	8	63 (28.60)	63 (28.60)	59 (26.79)	100 (45.40)	78 (35.41)
	10	91 (41.31)	91 (41.31)	95 (43.13)	155 (70.37)	110 (49.94)
	12	129 (58.57)	129 (58.57)	152 (69.01)	226 (102.60)	160 (72.64)
	14	191 (86.71)	191 (86.71)	210 (95.34)	310 (140.74)	233 (105.78)
	16	253 (114.86)	253 (114.86)	280 (127.12)	398 (180.69)	294 (133.78)
	18	310 (140.74)	310 (140.74)	345 (156.63)	502 (227.91)	360 (163.44)
	20	378 (171.61)	378 (171.61)	420 (190.68)	621 (281.93)	445 (202.03)
	24	539 (244.71)	539 (244.71)	615 (279.21)	936 (424.94)	640 (290.56)
600lb	1/2	2 (0.91)	2 (0.91)	2 (0.91)	2 (0.91)	3 (1.36)
	3/4	3 (1.36)	3 (1.36)	3 (1.36)	3 (1.36)	3-1/2 (1.59)
	1	3-1/2 (1.59)	3-1/2 (1.59)	3-1/2 (1.59)	4 (1.82)	4 (1.82)
	1-1/4	4-1/2 (2.04)	4-1/2 (2.04)	4-1/2 (2.04)	6 (2.72)	5-1/2 (2.50)
	1-1/2	6-1/2 (2.95)	6-1/2 (2.95)	6-1/2 (2.95)	8 (3.63)	8 (3.63)
	2	8 (3.63)	8 (3.63)	8 (3.63)	10 (4.54)	10 (4.54)
	2-1/2	12 (5.45)	12 (5.45)	11 (4.99)	15 (6.81)	14 (6.36)
	3	15 (6.81)	15 (6.81)	14 (6.36)	20 (9.08)	18 (8.17)
	3-1/2	21 (9.53)	21 (9.53)	20 (9.08)	29 (13.17)	26 (11.80)
	4	33 (14.98)	33 (14.98)	31 (14.07)	41 (18.61)	37 (16.80)
	5	63 (28.60)	63 (28.60)	63 (28.60)	68 (30.87)	68 (30.87)
	6	80 (36.32)	80 (36.32)	78 (35.41)	86 (39.04)	73 (33.14)
	8	97 (44.04)	97 (44.04)	112 (50.85)	139 (63.11)	112 (50.85)
	10	177 (80.36)	177 (80.36)	195 (88.53)	231 (104.87)	189 (85.81)
	12	215 (97.61)	215 (97.61)	240 (108.96)	295 (133.93)	226 (102.60)
	14	259 (117.59)	259 (117.59)	290 (131.66)	378 (148.91)	347 (157.54)
	16	366 (166.16)	366 (166.16)	400 (181.60)	527 (239.26)	481 (218.37)
	18	476 (216.10)	476 (216.10)	469 (212.93)	665 (301.91)	555 (251.97)
	20	612 (277.85)	612 (277.85)	604 (274.22)	855 (388.17)	690 (313.26)
	24	876 (397.70)	876 (397.70)	866 (393.16)	1175 (533.45)	977 (443.56)

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FORGED FLANGES ANSI B16.5

APPROX. WEIGHT LIST

UNIT POUND AND (kg)

DIMENSIONS IN INCHES

CLASS	NOMINAL PIPE SIZE	SLIP ON TYPE			BLIND	WELDING NECK
		SLIP ON	THREADED	LAP JOINT		
900lb	1/2	6 (2.72)	6 (2.72)	6 (2.72)	4 (1.82)	7 (3.18)
	3/4	6 (2.72)	6 (2.72)	6 (2.72)	6 (2.72)	7 (3.18)
	1	7-1/2 (3.41)	7-1/2 (3.41)	7-1/2 (3.41)	9 (4.09)	8-1/2 (3.86)
	1-1/4	10 (4.54)	10 (4.54)	10 (4.54)	10 (4.54)	10 (4.54)
	1-1/2	14 (6.36)	14 (6.36)	14 (6.36)	14 (6.36)	14 (6.36)
	2	22 (9.99)	22 (9.99)	21 (9.53)	25 (11.35)	24 (10.90)
	2-1/2	36 (16.34)	36 (16.34)	29 (13.17)	35 (15.89)	36 (16.34)
	3	31 (14.07)	31 (14.07)	25 (11.35)	32 (14.53)	29 (13.17)
	4	53 (24.06)	53 (24.06)	51 (23.15)	54 (24.52)	51 (23.15)
	5	83 (37.68)	83 (37.68)	81 (36.77)	87 (39.50)	86 (39.04)
	6	108 (49.03)	108 (49.03)	105 (47.67)	113 (51.30)	110 (49.94)
	8	172 (78.09)	172 (78.09)	188 (85.35)	197 (89.44)	187 (84.90)
	10	245 (111.23)	245 (111.23)	277 (125.76)	290 (131.66)	268 (121.67)
	12	326 (148.00)	326 (148.00)	371 (168.43)	413 (187.50)	372 (168.89)
	14	380 (172.52)	380 (172.52)	397 (180.24)	494 (224.28)	562 (255.15)
	16	459 (208.39)	459 (208.39)	488 (221.55)	619 (281.03)	685 (310.99)
1500lb	18	647 (293.74)	647 (293.74)	670 (304.18)	880 (399.52)	924 (419.50)
	20	792 (359.57)	792 (359.57)	868 (394.07)	1107 (502.58)	1164 (528.46)
	24	1480 (671.92)	1480 (671.92)	1659 (753.19)	2099 (952.95)	2107 (956.58)
	1/2	6 (2.72)	6 (2.72)	6 (2.72)	4 (1.82)	7 (3.18)
	3/4	6 (2.72)	6 (2.72)	6 (2.72)	6 (2.72)	7 (3.18)
	1	7-1/2 (3.41)	7-1/2 (3.41)	7-1/2 (3.41)	9 (4.09)	8-1/2 (3.86)
	1-1/4	10 (4.54)	10 (4.54)	10 (4.54)	10 (4.54)	10 (4.54)
	1-1/2	14 (6.36)	14 (6.36)	14 (6.36)	14 (6.36)	14 (6.36)
	2	22 (9.99)	22 (9.99)	21 (9.53)	25 (11.35)	24 (10.90)
	2-1/2	36 (16.34)	36 (16.34)	29 (13.17)	35 (15.89)	36 (16.34)
	3	48 (21.79)	48 (21.79)	38 (17.25)	48 (21.79)	48 (21.79)
	4	73 (33.14)	73 (33.14)	75 (34.05)	73 (33.14)	69 (31.33)
2500lb	5	132 (59.93)	132 (59.93)	138 (62.65)	142 (64.47)	132 (59.93)
	6	164 (74.46)	164 (74.46)	170 (77.18)	159 (72.19)	164 (74.46)
	8	258 (117.13)	258 (117.13)	286 (129.84)	302 (137.11)	273 (123.94)
	10	436 (197.94)	436 (197.94)	485 (220.19)	507 (230.18)	454 (206.12)
	12	667 (302.82)	667 (302.82)	749 (340.05)	775 (351.85)	690 (313.26)
	1/2	7 (3.18)	7 (3.18)	7 (3.18)	7 (13.18)	8 (3.63)
	3/4	9 (4.09)	9 (4.09)	8 (3.63)	10 (4.54)	9 (4.09)
	1	12 (5.45)	12 (5.45)	12 (5.45)	12 (5.45)	13 (5.90)
	1-1/4	18 (8.17)	18 (8.17)	17 (7.72)	18 (8.17)	20 (9.08)
	1-1/2	25 (11.35)	25 (11.35)	24 (10.90)	25 (11.35)	28 (12.71)
	2	38 (17.25)	38 (17.25)	37 (16.80)	39 (17.71)	42 (19.07)
	2-1/2	55 (24.97)	55 (24.97)	53 (24.06)	56 (25.42)	52 (23.61)
	3	83 (37.68)	83 (37.68)	80 (36.32)	86 (39.04)	94 (42.68)
	4	127 (57.66)	127 (57.66)	122 (55.39)	133 (60.38)	146 (66.28)
	5	210 (95.34)	210 (95.34)	204 (92.62)	223 (101.24)	244 (110.78)
	6	323 (146.64)	323 (146.64)	314 (142.56)	345 (156.63)	378 (171.61)
	8	485 (220.19)	485 (220.19)	471 (213.83)	533 (241.98)	576 (261.50)
	10	925 (419.95)	925 (419.95)	897 (407.24)	1025 (465.35)	1068 (484.87)
	12	1300 (590.20)	1300 (590.20)	1262 (572.95)	1464 (644.66)	1608 (730.03)

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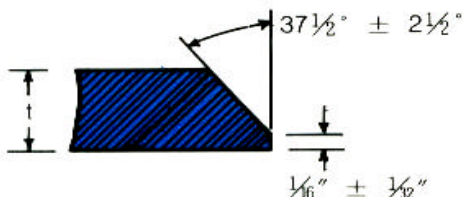
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DIMENSIONAL TOLERANCES ANSI B16.5 - 1992a

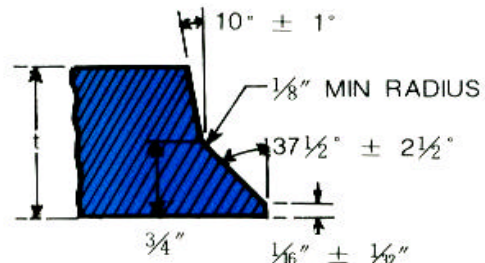
Thread, Socket-welding,slip-on,Lap joint and Blind			Welding Neck		
Outside Diameter	when O.D. is 24" or less	±1/16" (1.6mm)	Outside Diameter	when O.D. is 24" or less	±1/16" (1.6mm)
	when O.D. is Over 24"	±1/8" (3.2mm)		when O.D. is Over 24"	±1/8" (3.2mm)
Inside Diameter	Threaded	Within limits on boring gauge	Inside Diameter	10" and Smaller	±1/32"(0.8mm)
	socket-welding, slip-on and Lap joint	10" & Smaller + 1/32"(0.8mm).-0" 12" & Larger + 1/16"(1.6mm),-0"		12" thru 18"	±1/16"(1.6mm)
Outside Diameter of Hub	12" and Smaller	+3/32"(2.4mm) -1/16"(1.6mm)	Diameter of Contact Face	20" and Larger	+1/8"(3.2mm) -1/16"(1.6mm)
	14" and Larger	±1/8"(3.2mm)		1/16" Raised Face	±1/32"(0.8mm)
Diameter of Contact Face	1/16" Raised Face	±1/32"(0.8mm)	Diameter of Hub at Base	1/4" Raised Face Tongue & Groove Male, Female	±1/64"(0.4mm)
	1/4" Raised Face Tongue & Groove Male, Female	±1/64"(0.4mm)		When Hub Base is 24" or Smaller	±1/16"(1.6mm)
Diameter of counterbore			Diameter of Hub at Point of Welding	When Hub Base is Over 24"	±1/8"(3.2mm)
	Same as for Inside Diameter			5" and Smaller	+3/32"(2.4mm) -1/32"(0.8mm)
Drilling	Bolt Circle	±1/16"(1.6mm)	Drilling	6" and Larger	+5/32(4.0mm) -1/32(0.8mm)
	Bolt hole spacing	±1/32"(0.8mm)		Bolt Circle	±1/16"(1.6mm)
	Eccentricity of Bolt Circle with Respect to Facing	2-1/2" & Smaller 1/32"(0.8mm) max 3" & Larger 1/16"(1.6mm) max		Bolt hole spacing	±1/32"(0.8mm)
Thickness	18" and Smaller	+1/8"(3.2mm), -0"	Thickness	Eccentricity of Bolt Circle with Respect to Facing	2-1/2" & Smaller 1/32"(0.8mm) max 3" & Larger 1/16"(1.6mm) max
	20" and Larger	+3/16"(4.8mm),-0"		18" and Smaller	+1/8"(3.2mm),-0"
Length Thru Hub	18" and Smaller	+1/8"(3.2mm),-1/32(0.8mm)	Length Thru Hub	20" and Larger	+3/16"(4.8mm),-0"
	20" and Larger	+3/16"(4.8mm),-1/16"(1.6mm)		10" and Smaller	±1/16"(1.6mm)
				12" and Larger	±1/8"(3.2mm)

WELDING BEVEL STANDARDS

For Wall thickness "t" 3/16" to 3/4" incl.



For Wall thickness "t" greater than 3/4"

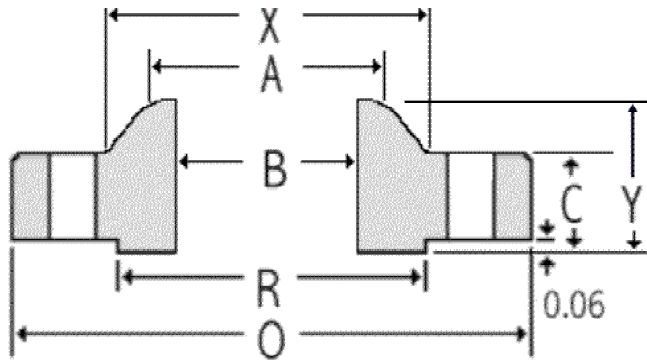


A Quick Note on B16.47

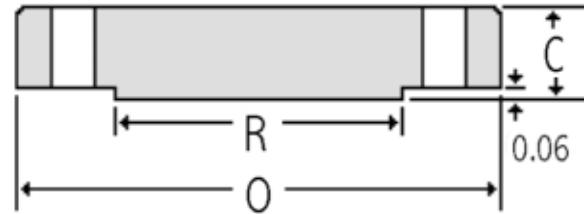
ASME has incorporated the MSS-SP44 specification into B16.47 Series A and the API 605 Specification into B16.47 series B. They have also added Blinds to these two specs. You may note that these specs include only Weld Necks and Blinds. For Slip-On's over 24" you must refer to either Industry Standard (which are not automatically covered by ASME) or Boiler Code Flanges. If you need help deciding which flange best suits your application feel free to contact us.

Texas Flange 800-826-3801

B16.47 Series A Class 150 Weld Neck & Blind



Weld Neck



Blind

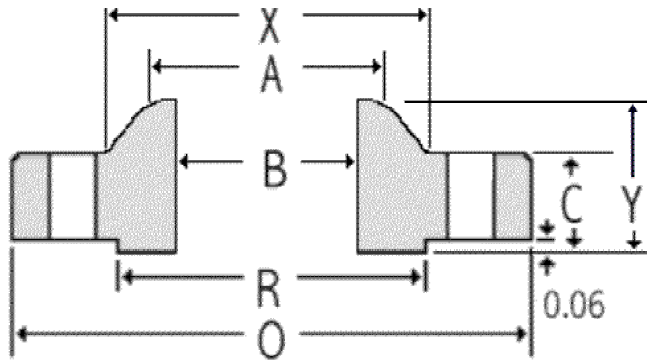
Nom Size	THICKNESS						Drilling					Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	34.25	2.69	2.69	29.50	26.62	To be specified by Purchaser.	4.75	26.00	31.75	1.38	24	300	702
28	36.50	2.81	2.81	31.50	28.62		4.94	28.00	34.00	1.38	28	345	833
30	38.75	2.94	2.94	33.75	30.75		5.38	30.00	36.00	1.38	28	400	982
32	41.75	3.19	3.19	36.00	32.75		5.69	32.00	38.50	1.62	28	505	1237
34	43.75	3.25	3.25	38.00	34.75		5.88	34.00	40.50	1.62	32	540	1384
36	46.00	3.56	3.56	40.25	36.75		6.19	36.00	42.75	1.62	32	640	1676
38	48.75	3.44	3.44	42.25	39.00		6.19	38.00	45.25	1.62	32	720	1819
40	50.75	3.56	3.56	44.25	41.00		6.44	40.00	47.25	1.62	36	775	2040
42	53.00	3.81	3.81	47.00	43.00		6.75	42.00	49.50	1.62	36	890	2381
44	55.25	4.00	4.00	49.00	45.00		7.00	44.00	51.75	1.62	40	990	2717
46	57.25	4.06	4.06	51.00	47.12		7.31	46.00	53.75	1.62	40	1060	2961
48	59.50	4.25	4.25	53.50	49.12		7.56	48.00	56.00	1.62	44	1185	3348
50	61.75	4.38	4.38	55.50	51.25		8.00	50.00	58.25	1.88	44	1270	3716
52	64.00	4.56	4.56	57.50	53.25		8.25	52.00	60.50	1.88	44	1410	4156
54	66.25	4.75	4.75	59.50	55.25		8.50	54.00	62.75	1.88	44	1585	4639
56	68.75	4.88	4.88	62.00	57.38		9.00	56.00	65.00	1.88	48	1760	5132
58	71.00	5.06	5.06	64.00	59.38		9.25	58.00	67.25	1.88	48	1915	5675
60	73.00	5.19	5.19	66.00	61.38		9.44	60.00	69.25	1.88	52	2045	6154

Dimensions in inches.

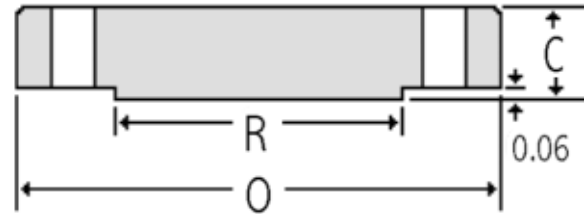
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 300 Weld Neck & Blind



Weld Neck



Blind

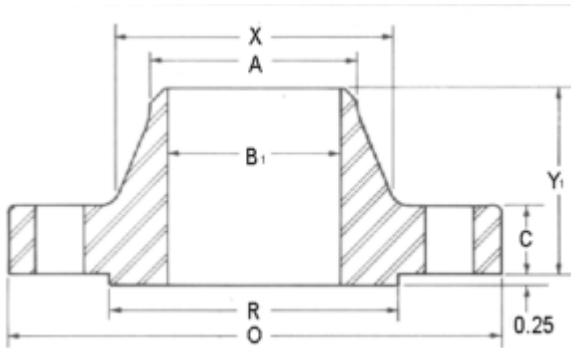
Nom Size	THICKNESS						Drilling					Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	38.25	3.12	3.31	29.50	28.38	To be specified by Purchaser.	7.25	26.00	34.50	1.75	28	605	1078
28	40.75	3.38	3.56	31.50	30.50		7.75	28.00	37.00	1.75	28	745	1315
30	43.00	3.62	3.75	33.75	32.56		8.25	30.00	39.25	1.88	28	870	1543
32	45.25	3.88	3.94	36.00	34.69		8.75	32.00	41.50	2.00	28	1005	1795
34	47.50	4.00	4.12	38.00	36.88		9.12	34.00	43.50	2.00	28	1145	2068
36	50.00	4.12	4.38	40.25	39.00		9.50	36.00	46.00	2.12	32	1275	2436
38	46.00	4.25	4.25	40.50	39.12		7.12	38.00	43.00	1.62	32	695	2001
40	48.75	4.50	4.50	42.75	41.25		7.62	40.00	45.50	1.75	32	840	2380
42	50.75	4.69	4.69	44.75	43.25		7.88	42.00	47.50	1.75	32	950	2688
44	53.25	4.88	4.88	47.00	45.25		8.12	44.00	49.75	1.88	32	1055	3079
46	55.75	5.06	5.06	49.00	47.38		8.50	46.00	52.00	2.00	28	1235	3499
48	57.75	5.25	5.25	51.25	49.38		8.81	48.00	54.00	2.00	32	1380	3896
50	60.25	5.50	5.50	53.50	51.38		9.12	50.00	56.25	2.12	32	1530	4442
52	62.25	5.69	5.69	55.50	53.38		9.38	52.00	58.25	2.12	32	1660	4906
54	65.25	6.00	6.00	57.75	55.50		9.94	54.00	61.00	2.38	28	2050	5684
56	67.25	6.06	6.06	59.75	57.62		10.25	56.00	63.00	2.38	28	2155	6098
58	69.25	6.25	6.25	62.00	59.62		10.50	58.00	65.00	2.38	32	2270	6669
60	71.25	6.44	6.44	64.00	61.62		10.75	60.00	67.00	2.38	32	2470	7274

Dimensions in inches.

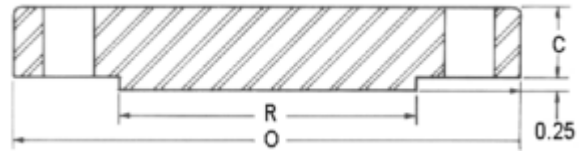
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 400 Weld Neck & Blind



Weld Neck



Blind

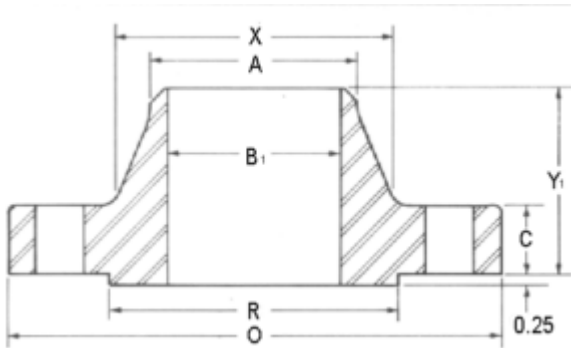
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	38.25	3.50	3.88	7.62	28.62	26.00	29.50	34.50	28	1.88	650	1263
28	40.75	3.75	4.12	8.12	30.81	28.00	31.50	37.00	28	2.00	785	1522
30	43.00	4.00	4.38	8.62	32.94	30.00	33.75	39.25	28	2.12	905	1802
32	45.25	4.25	4.56	9.12	35.00	32.00	36.00	41.50	28	2.12	1065	2077
34	47.50	4.38	4.81	9.50	37.19	34.00	38.00	43.50	28	2.12	1200	2415
36	50.00	4.50	5.06	9.88	39.38	36.00	40.25	46.00	32	2.12	1340	2815
38	47.50	4.88	4.88	8.12	39.50	38.00	40.75	44.00	32	1.88	935	2450
40	50.00	5.12	5.12	8.50	41.50	40.00	43.00	46.25	32	2.00	1090	2848
42	52.00	5.25	5.25	8.81	43.62	42.00	45.00	48.25	32	2.00	1190	3159
44	54.50	5.50	5.50	9.18	45.62	44.00	47.25	50.50	32	2.12	1375	3635
46	56.75	5.75	5.75	9.62	47.75	46.00	49.50	52.75	36	2.12	1525	4120
48	59.50	6.00	6.00	10.12	49.88	48.00	51.50	55.25	28	2.38	1790	4726
50	61.75	6.19	6.25	10.56	52.00	50.00	53.62	57.50	32	2.38	1950	5303
52	63.75	6.38	6.44	10.88	54.00	52.00	55.62	59.50	32	2.38	2125	5823
54	67.00	6.69	6.75	11.38	56.12	54.00	57.88	62.25	28	2.62	2565	6742
56	69.00	6.88	6.94	11.75	58.25	56.00	60.12	64.25	32	2.62	2710	7352
58	71.00	7.00	7.12	12.06	60.25	58.00	62.12	66.25	32	2.62	3230	7986
60	74.25	7.31	7.44	12.56	62.38	60.00	64.38	69.00	32	2.88	3820	9126

Dimensions in inches.

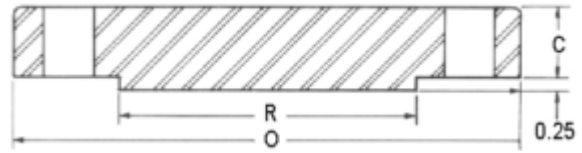
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 600 Weld Neck & Blind



Weld Neck



Blind

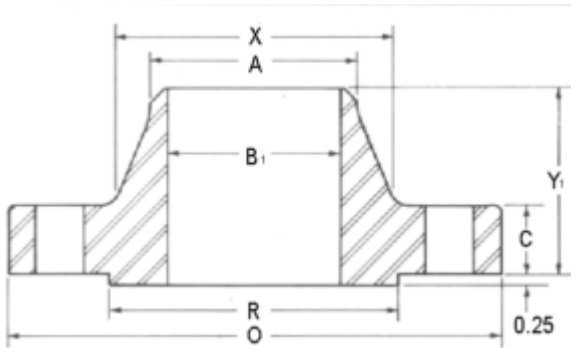
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	40.00	4.25	4.94	8.75	29.44	26.00	29.50	36.00	28	2.00	940	1759
28	42.25	4.38	5.19	9.25	31.62	28.00	31.50	38.00	28	2.12	1060	2061
30	44.50	4.50	5.50	9.75	33.94	30.00	33.75	40.25	28	2.12	1210	2423
32	47.00	4.62	5.81	10.25	36.12	32.00	36.00	42.50	28	2.38	1375	2856
34	49.00	4.75	6.06	10.62	38.31	34.00	38.00	44.50	28	2.38	1540	3237
36	51.75	4.88	6.38	11.12	40.62	36.00	40.25	47.00	28	2.62	1705	3802
38	50.00	6.00	6.12	10.00	40.25	38.00	41.50	45.75	28	2.38	1470	3404
40	52.00	6.25	6.38	10.38	42.25	40.00	43.75	47.75	32	2.38	1630	3838
42	55.25	6.62	6.75	11.00	44.38	42.00	46.00	50.50	28	2.62	2030	4585
44	57.25	6.81	7.00	11.38	46.50	44.00	48.25	52.50	32	2.62	2160	5105
46	59.50	7.06	7.31	11.81	48.62	46.00	50.25	54.75	32	2.62	2410	5758
48	62.75	7.44	7.69	12.44	50.75	48.00	52.50	57.50	32	2.88	2855	6737
50	65.75	7.75	8.00	12.94	52.88	50.00	54.50	60.00	28	3.12	3330	7695
52	67.75	8.00	8.25	13.25	54.88	52.00	56.50	62.00	32	3.12	3560	8426
54	70.00	8.25	8.56	13.75	57.00	54.00	58.75	64.25	32	3.12	3920	9333
56	73.00	8.56	8.88	14.25	59.12	56.00	60.75	66.75	32	3.38	4280	10,529
58	75.00	8.75	9.12	14.56	61.12	58.00	63.00	68.75	32	3.38	4640	11,414
60	78.50	9.19	9.56	15.31	63.38	60.00	65.25	71.75	28	3.62	5000	13,108

Dimensions in inches.

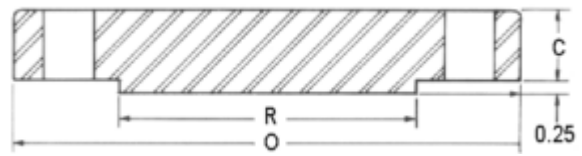
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 900 Weld Neck & Blind



Weld Neck



Blind

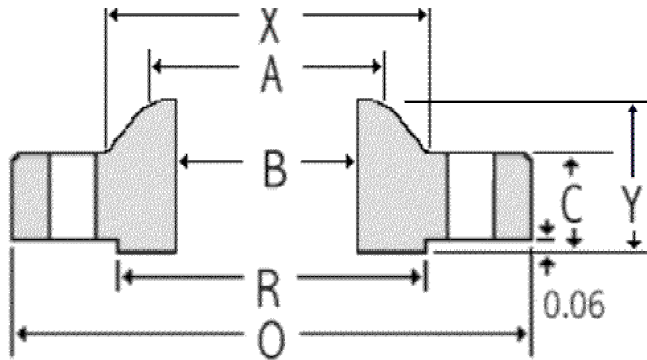
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	42.75	5.50	6.31	11.25	30.50	26.00	29.50	37.50	20	2.88	1525	2566
28	46.00	5.62	6.75	11.75	32.75	28.00	31.50	40.25	20	3.12	1810	3178
30	48.50	5.88	7.18	12.25	35.00	30.00	33.75	42.75	20	3.12	2120	3758
32	51.75	6.25	7.62	13.00	37.25	32.00	36.00	45.50	20	3.38	2545	4541
34	55.00	6.50	8.06	13.75	39.62	34.00	38.00	48.25	20	3.62	2970	5425
36	57.50	6.75	8.44	14.25	41.88	36.00	40.25	50.75	20	3.62	3395	6209
38	57.50	7.50	8.50	13.88	42.25	38.00	43.25	50.75	20	3.62	3385	6253
40	59.50	7.75	8.81	14.31	44.38	40.00	45.75	52.75	24	3.62	3620	6940
42	61.50	8.12	9.12	14.62	46.31	42.00	47.75	54.75	24	3.62	3960	7675
44	64.88	8.44	9.56	15.38	48.62	44.00	50.00	57.62	24	3.88	4300	8954
46	68.25	8.88	10.06	16.18	50.88	46.00	52.50	60.50	24	4.12	4640	10,426
48	70.25	9.19	10.38	16.50	52.88	48.00	54.50	62.50	24	4.12	4980	11,398

Dimensions in inches.

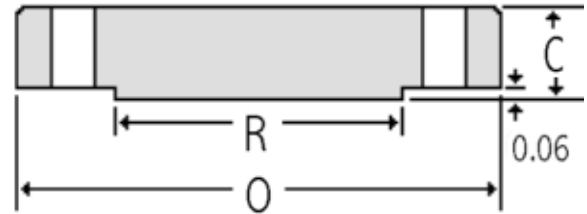
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 75 Weld Neck & Blind



Weld Neck



Blind

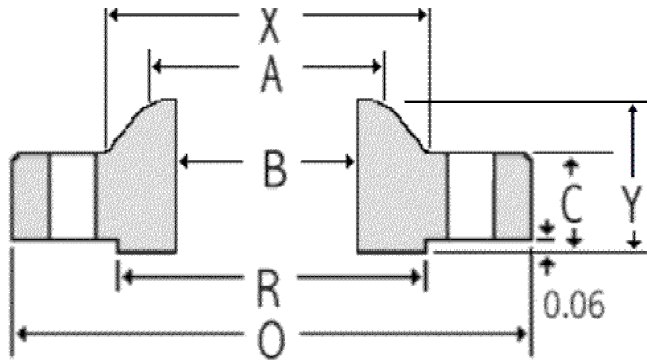
Nom Size	THICKNESS						Drilling					Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	30.00	1.31	1.31	27.75	26.62	To be specified by Purchaser.	2.31	26.06	28.50	0.75	36	80	255
28	32.00	1.31	1.31	29.75	28.62		2.44	28.06	30.50	0.75	40	85	290
30	34.00	1.31	1.31	31.75	30.62		2.56	30.06	32.50	0.75	44	90	330
32	36.00	1.38	1.44	33.75	32.62		2.75	32.06	34.50	0.75	48	105	390
34	38.00	1.38	1.50	35.75	34.62		2.88	34.06	36.50	0.75	52	110	430
36	40.69	1.44	1.67	38.00	36.81		3.38	36.06	39.06	0.88	40	145	518
38	42.69	1.50	1.75	40.00	38.81		3.50	38.06	41.06	0.88	40	160	595
40	44.69	1.50	1.75	42.00	40.81		3.62	40.06	43.06	0.88	44	170	760
42	46.69	1.56	1.88	44.00	42.81		3.75	42.06	45.06	0.88	48	185	895
44	49.25	1.69	1.94	46.25	44.88		4.12	44.06	47.38	1.00	36	230	1065
46	51.25	1.75	2.00	48.25	46.88		4.25	46.06	49.38	1.00	40	245	1185
48	53.25	1.81	2.12	50.25	48.88		4.38	48.06	51.38	1.00	44	270	1315
50	55.25	1.88	2.18	52.25	50.94		4.56	50.06	53.38	1.00	44	290	1505
52	57.38	1.88	2.25	54.25	52.94		4.75	52.06	55.50	1.00	48	310	1665
54	59.38	1.94	2.38	56.25	55.00		4.94	54.06	57.50	1.00	48	340	1840
56	62.00	2.00	2.44	58.50	57.12		5.31	56.06	59.88	1.12	40	400	2110
58	64.00	2.06	2.50	60.50	59.12		5.44	58.06	61.88	1.12	44	430	2300
60	66.00	2.19	2.62	62.50	61.12		5.69	60.06	63.88	1.12	44	475	2500

Dimensions in inches.

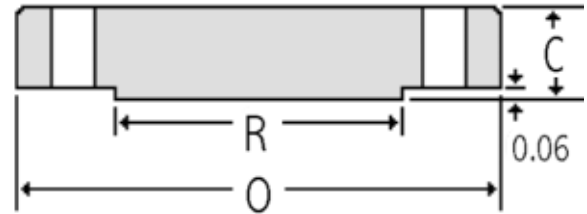
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 150 Weld Neck & Blind



Weld Neck



Blind

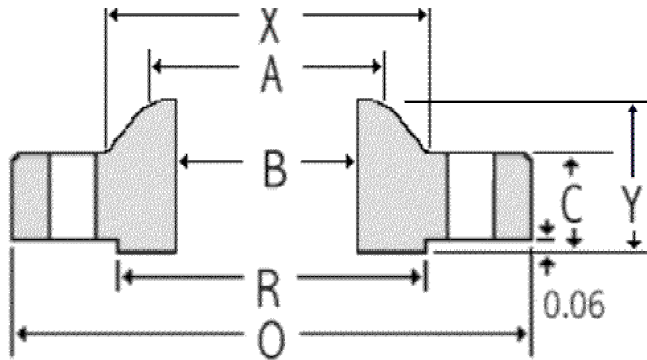
Nom Size	THICKNESS						Drilling					Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	30.94	1.62	1.75	28.00	26.94	To be specified by Purchaser.	3.50	26.06	29.31	0.88	36	120	373
28	32.94	1.75	1.88	30.00	28.94		3.75	28.06	31.31	0.88	40	140	454
30	34.94	1.75	2.00	32.00	31.00		3.94	30.06	33.31	0.88	44	150	543
32	37.06	1.81	2.12	34.00	33.06		4.25	32.06	35.44	0.88	48	170	648
34	39.56	1.94	2.25	36.25	35.12		4.34	34.06	37.69	1.00	40	210	783
36	41.62	2.06	2.31	38.25	37.19		4.62	36.06	39.75	1.00	44	240	890
38	44.25	2.12	2.50	40.25	39.25		4.88	38.12	42.12	1.12	40	290	1089
40	46.25	2.19	2.62	42.50	41.31		5.06	40.12	44.12	1.12	44	310	1247
42	48.25	2.31	2.69	44.50	43.38		5.25	42.12	46.12	1.12	48	345	1393
44	50.25	2.38	2.81	46.50	45.38		5.38	44.12	48.12	1.12	52	370	1579
46	52.81	2.44	2.94	48.62	47.44		5.69	46.12	50.56	1.25	40	435	1824
48	54.81	2.56	3.06	50.75	49.50		5.88	48.12	52.56	1.25	44	480	2045
50	56.81	2.69	3.18	52.75	51.50		6.06	50.12	54.56	1.25	48	520	2284
52	58.81	2.75	3.31	54.75	53.56		6.19	52.12	56.56	1.25	52	550	2547
54	61.00	2.81	3.44	56.75	55.62		6.38	54.12	58.75	1.25	56	620	2848
56	63.00	2.88	3.56	58.75	57.69		6.56	56.12	60.75	1.25	60	650	3144
58	65.94	2.94	3.68	60.75	59.69		6.88	58.12	63.44	1.38	48	780	3560
60	67.94	3.00	3.81	63.00	61.81		7.06	60.12	65.44	1.38	52	850	3913

Dimensions in inches.

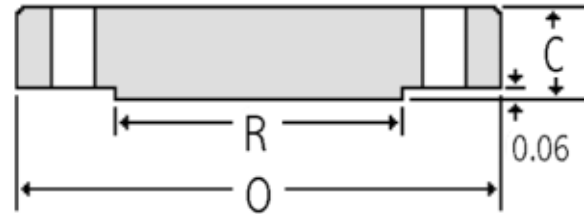
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 300 Weld Neck & Blind



Weld Neck



Blind

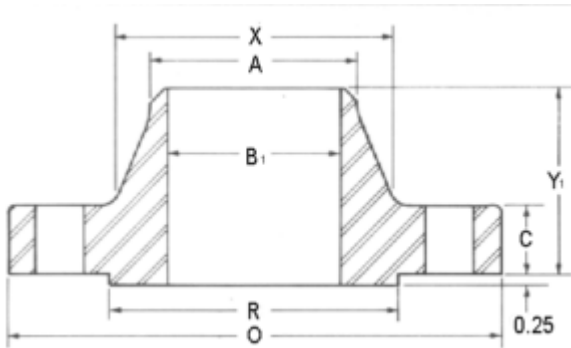
Nom Size	THICKNESS						Drilling					Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	34.12	3.50	3.50	29.00	27.62	To be specified by Purchaser.	5.69	26.19	31.62	1.38	32	400	907
28	36.25	3.50	3.50	31.00	29.75		5.88	28.19	33.75	1.38	36	450	1023
30	39.00	3.69	3.69	33.25	32.00		6.22	30.25	36.25	1.50	36	550	1249
32	41.50	4.06	4.06	35.50	34.00		6.62	32.25	38.50	1.62	32	685	1556
34	43.62	4.06	4.06	37.50	36.12		6.81	34.25	40.62	1.62	36	750	1719
36	46.12	4.06	4.06	39.75	38.00		7.12	36.25	42.88	1.75	32	840	1921
38	48.12	4.38	4.38	41.75	40.00		7.56	38.25	44.88	1.75	36	915	2257
40	50.12	4.56	4.56	43.88	42.00		7.81	40.25	46.88	1.75	40	990	2549
42	52.50	4.69	4.69	46.00	44.00		8.06	42.31	49.00	1.88	36	1135	2876
44	54.50	5.00	5.00	48.00	46.19		8.44	44.31	51.00	1.88	40	1235	3304
46	57.50	5.06	5.12	50.00	48.38		8.75	46.31	53.75	2.00	36	1470	3766
48	59.50	5.06	5.31	52.25	50.31		8.81	48.31	55.75	2.00	40	1575	4183
50	61.50	5.44	5.50	54.25	52.38		9.25	50.31	57.75	2.00	44	1710	4629
52	63.50	5.62	5.68	56.25	54.44		9.56	52.31	59.75	2.00	48	1840	5096
54	65.88	5.38	5.88	58.25	56.50		9.44	54.31	62.12	2.00	48	1980	5678
56	69.50	6.06	6.18	60.50	58.81		10.56	56.31	65.00	2.38	36	2595	6642
58	71.94	6.06	6.38	62.75	60.94		10.81	58.31	67.44	2.38	40	2770	7347
60	73.94	5.94	6.56	65.00	62.94		10.69	60.31	69.44	2.38	40	2870	7980

Dimensions in inches.

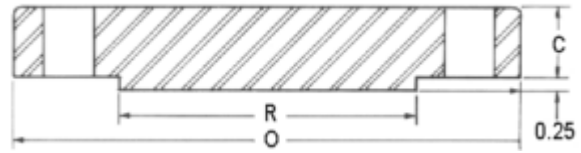
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 400 Weld Neck & Blind



Weld Neck



Blind

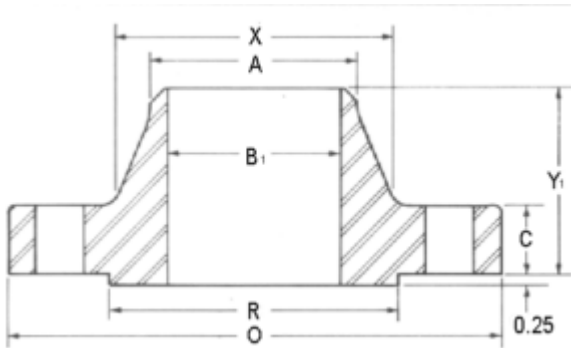
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	33.50	3.50	3.50	5.88	27.12	26.00	28.00	30.75	28	1.50	360	874
28	36.00	3.75	3.75	6.25	29.12	28.00	30.00	33.00	24	1.62	450	1081
30	38.25	4.00	4.00	6.69	31.25	30.00	32.25	35.25	28	1.62	530	1302
32	40.75	4.25	4.25	7.06	33.25	32.00	34.38	37.50	28	1.75	635	1570
34	42.75	4.38	4.38	7.38	35.38	34.00	36.50	39.50	32	1.75	690	1781
36	45.50	4.69	4.69	7.88	37.50	36.00	38.62	42.00	28	1.88	855	2160
38	47.50	4.88	4.88	8.12	39.50	38.00	40.75	44.00	32	1.88	935	2450
40	50.00	5.12	5.12	8.50	41.50	40.00	43.00	46.25	32	2.00	1090	2848
42	52.00	5.25	5.25	8.81	43.62	42.00	45.00	48.25	32	2.00	1190	3159
44	54.50	5.50	5.50	9.18	45.62	44.00	47.25	50.50	32	2.12	1375	3635
46	56.75	5.75	5.75	9.62	47.75	46.00	49.50	52.75	36	2.12	1525	4120
48	59.50	6.00	6.00	10.12	49.88	48.00	51.50	55.25	28	2.38	1790	4726
50	61.75	6.19	6.25	10.56	52.00	50.00	53.62	57.50	32	2.38	1950	5303
52	63.75	6.38	6.44	10.88	54.00	52.00	55.62	59.50	32	2.38	2125	5823
54	67.00	6.69	6.75	11.38	56.12	54.00	57.88	62.25	28	2.62	2565	6742
56	69.00	6.88	6.94	11.75	58.25	56.00	60.12	64.25	32	2.62	2710	7352
58	71.00	7.00	7.12	12.06	60.25	58.00	62.12	66.25	32	2.62	3230	7986
60	74.25	7.31	7.44	12.56	62.38	60.00	64.38	69.00	32	2.88	3820	9126

Dimensions in inches.

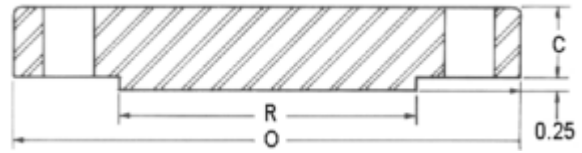
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 600 Weld Neck & Blind



Weld Neck



Blind

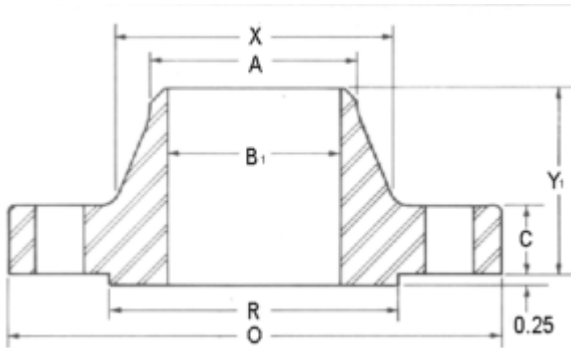
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	35.00	4.38	4.38	7.12	27.50	26.00	28.62	31.75	28	1.75	550	1194
28	37.50	4.56	4.56	7.50	29.62	28.00	30.88	34.00	28	1.88	650	1427
30	40.25	4.94	5.00	8.06	31.75	30.00	33.12	36.50	28	2.00	810	1802
32	42.75	5.12	5.31	8.50	33.88	32.00	35.25	38.75	28	2.12	950	2159
34	45.75	5.56	5.68	9.19	36.00	34.00	37.50	41.50	24	2.38	1205	2645
36	47.75	5.75	5.94	9.56	38.12	36.00	39.75	43.50	28	2.38	1340	3013
38	50.00	6.00	6.12	10.00	40.25	38.00	41.50	45.75	28	2.38	1470	3404
40	52.00	6.25	6.38	10.38	42.25	40.00	43.75	47.75	32	2.38	1630	3838
42	55.25	6.62	6.75	11.00	44.38	42.00	46.00	50.50	28	2.62	2030	4585
44	57.25	6.81	7.00	11.38	46.50	44.00	48.25	52.50	32	2.62	2160	5105
46	59.50	7.06	7.31	11.81	48.62	46.00	50.25	54.75	32	2.62	2410	5758
48	62.75	7.44	7.69	12.44	50.75	48.00	52.50	57.50	32	2.88	2855	6737
50	65.75	7.75	8.00	12.94	52.88	50.00	54.50	60.00	28	3.12	3330	7695
52	67.75	8.00	8.25	13.25	54.88	52.00	56.50	62.00	32	3.12	3560	8426
54	70.00	8.25	8.56	13.75	57.00	54.00	58.75	64.25	32	3.12	3920	9333
56	73.00	8.56	8.88	14.25	59.12	56.00	60.75	66.75	32	3.38	4280	10,529
58	75.00	8.75	9.12	14.56	61.12	58.00	63.00	68.75	32	3.38	4640	11,414
60	78.50	9.19	9.56	15.31	63.38	60.00	65.25	71.75	28	3.62	5000	13,108

Dimensions in inches.

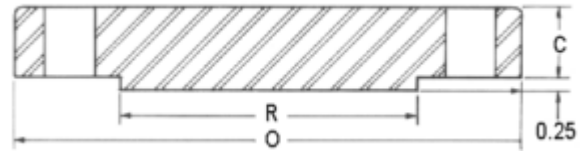
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 900 Weld Neck & Blind



Weld Neck



Blind

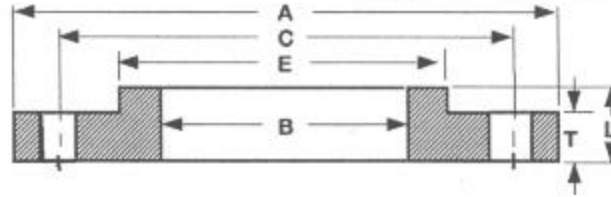
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	40.25	5.31	6.06	10.19	29.25	26.00	30.00	35.50	20	2.62	1050	2184
28	43.50	5.81	6.56	10.88	31.38	28.00	32.25	38.25	20	2.88	1520	2762
30	46.50	6.12	6.93	11.38	33.50	30.00	34.50	40.75	20	3.12	1820	3334
32	48.75	6.31	7.31	11.94	35.75	32.00	36.50	43.00	20	3.12	2065	3865
34	51.75	6.75	7.68	12.56	37.88	34.00	39.00	45.50	20	3.38	2450	4576
36	53.00	6.81	7.94	12.81	40.00	36.00	40.50	47.25	24	3.12	2520	4963
38	57.50	7.50	8.50	13.88	42.25	38.00	43.25	50.75	20	3.62	3385	6253
40	59.50	7.75	8.81	14.31	44.38	40.00	45.75	52.75	24	3.62	3620	6940
42	61.50	8.12	9.12	14.62	46.31	42.00	47.75	54.75	24	3.62	3960	7675
44	64.88	8.44	9.56	15.38	48.62	44.00	50.00	57.62	24	3.88	4300	8954
46	68.25	8.88	10.06	16.18	50.88	46.00	52.50	60.50	24	4.12	4640	10,426
48	70.25	9.19	10.38	16.50	52.88	48.00	54.50	62.50	24	4.12	4980	11,398

Dimensions in inches.

Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

Same as AWWA Class D Hub



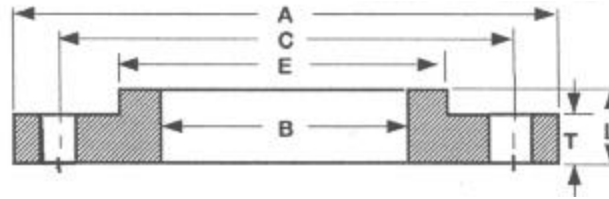
Class 125LW* (175-150 psi)

Nom Pipe Size						Drilling Template			Weight
	OD of Flange	ID of Flange	Thickness of Flange	Overall Thickness	Diam. Of Hub	Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	
	(A)	(B)	(T)	(L)	(E)			(C)	
4	9.00	4.57	0.500	0.875	5.312	8	0.750	7.50	7
5	10.00	5.66	0.562	1.250	6.312	8	0.875	8.50	9
6	11.00	6.72	0.562	1.250	7.562	8	0.875	9.50	11
8	13.50	8.72	0.562	1.250	9.688	8	0.875	11.75	15
10	16.00	10.88	0.688	1.250	12.000	12	1.000	14.25	22
12	19.00	12.88	0.688	1.250	14.375	12	1.000	17.00	33
14	21.00	14.19	0.750	1.250	15.750	12	1.125	18.75	43
16	23.50	16.19	0.750	1.250	18.000	16	1.125	21.25	52
18	25.00	18.19	0.750	1.250	19.875	16	1.250	22.75	52
20	27.50	20.19	0.750	1.250	22.000	20	1.250	25.00	61
22	29.50	22.19	1.000	1.750	24.250	20	1.375	27.25	92
24	32.00	24.19	1.000	1.750	26.125	20	1.375	29.50	105
26	34.25	26.19	1.000	1.750	28.500	24	1.375	31.75	119
28	36.50	28.19	1.000	1.750	30.500	28	1.375	34.00	130
30	38.75	30.19	1.000	1.750	32.500	28	1.375	36.00	144
32	41.75	32.19	1.125	1.750	34.750	28	1.625	38.50	182
34	43.75	34.19	1.125	1.750	36.750	32	1.625	40.50	191
36	46.00	36.19	1.125	1.750	38.750	32	1.625	42.75	207
38	48.75	38.19	1.125	1.750	40.750	32	1.625	45.25	237
40	50.75	40.19	1.125	1.750	43.000	36	1.625	47.25	249
42	53.00	42.19	1.250	1.750	45.000	36	1.625	49.50	287
44	55.25	44.19	1.250	2.250	47.000	40	1.625	51.75	334
46	57.25	46.19	1.250	2.250	49.000	40	1.625	53.75	348
48	59.50	48.19	1.375	2.500	51.000	44	1.625	56.00	407
50	61.75	50.19	1.375	2.500	53.000	44	1.875	58.25	421
52	64.00	52.19	1.375	2.500	55.000	44	1.875	60.50	448
54	66.25	54.19	1.375	2.500	57.000	44	1.875	62.75	475
60	73.00	60.19	1.500	2.750	63.000	52	1.875	69.25	605
66	80.00	66.19	1.500	2.750	69.000	52	1.875	76.00	718
72	86.50	72.19	1.500	2.750	75.000	60	1.875	82.50	803
78	93.00	78.19	1.750	3.000	81.250	64	2.125	89.00	1010
84	99.75	84.19	1.750	3.000	87.500	64	2.125	95.50	1160
90	106.50	90.19	2.000	3.250	93.750	68	2.438	102.00	1430
96	113.25	96.19	2.000	3.250	100.000	68	2.438	108.50	1618

Notes: All dimensions measured in inches. All weights in pounds and are approximate. Hub flanges are to be used on pipe that has an OD equal to the nominal pipe size in the first column. *Pressure Ratings are from AWWA Table 3 Class D. Pressure rating at atmospheric temperature: sizes 4-12 in. inclusive, 175 psi; sizes larger than 12 in., 150 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges. In sizes 24in. and smaller they also match up to ANSI/ASME B16.5 150-psi standard for steel flanges.

Texas Flange 800-826-3801

Same as AWWA Table 4 Class E

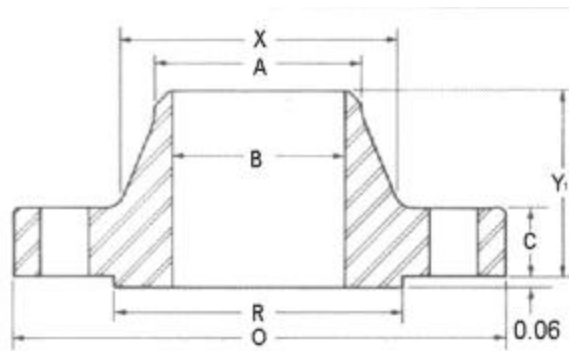


Class 125 SO* (275psi)

Nom Pipe Size						Drilling Template			Weight
	OD of Flange	ID of Flange	Thickness of Flange	Overall Thickness	Diam. Of Hub	Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	
	(A)	(B)	(T)	(L)	(E)			(C)	
4	9.00	4.57	0.938	1.312	5.312	8	0.750	7.50	13
5	10.00	5.66	0.938	1.438	6.438	8	0.875	8.50	14
6	11.00	6.72	1.000	1.562	7.562	8	0.875	9.50	17
8	13.50	8.72	1.125	1.750	9.688	8	0.875	11.75	28
10	16.00	10.88	1.188	1.938	12.000	12	1.000	14.25	37
12	19.00	12.88	1.250	2.188	14.375	12	1.000	17.00	59
14	21.00	14.19	1.375	2.250	15.750	12	1.125	18.75	78
16	23.50	16.19	1.438	2.500	18.000	16	1.125	21.25	101
18	25.00	18.19	1.562	2.688	19.875	16	1.250	22.75	110
20	27.50	20.19	1.688	2.875	22.000	20	1.250	25.00	139
22	29.50	22.19	1.812	3.125	24.000	20	1.375	27.25	162
24	32.00	24.19	1.875	3.250	26.125	20	1.375	29.50	197
26	34.25	26.19	2.000	3.375	28.500	24	1.375	31.75	235
28	36.50	28.19	2.062	3.438	30.750	28	1.375	34.00	269
30	38.75	30.19	2.125	3.500	32.750	28	1.375	36.00	303
32	41.75	32.19	2.250	3.625	35.000	28	1.625	38.50	375
34	43.75	34.19	2.312	3.688	37.000	32	1.625	40.50	401
36	46.00	36.19	2.375	3.750	39.250	32	1.625	42.75	452
38	48.75	38.19	2.375	3.750	41.750	32	1.625	45.25	528
40	50.75	40.19	2.500	3.875	43.750	36	1.625	47.25	573
42	53.00	42.19	2.625	4.000	46.000	36	1.625	49.50	648
44	55.25	44.19	2.625	4.000	48.000	40	1.625	51.75	688
46	57.25	46.19	2.688	4.062	50.000	40	1.625	53.75	733
48	59.50	48.19	2.750	4.125	52.250	44	1.625	56.00	799
50	61.75	50.19	2.750	4.125	54.250	44	1.875	58.25	827
52	64.00	52.19	2.875	4.250	56.500	44	1.875	60.50	922
54	66.25	54.19	3.000	4.375	58.750	44	1.875	62.75	1024
60	73.00	60.19	3.125	4.500	65.250	52	1.875	69.25	1253
66	80.00	66.19	3.375	4.875	71.500	52	1.875	76.00	1623
72	86.50	72.19	3.500	5.000	78.500	60	1.875	82.50	1922
78	93.00	78.19	3.875	5.375	84.500	64	2.125	89.00	2279
84	99.75	84.19	3.875	5.375	90.500	64	2.125	95.50	2586
90	106.50	90.19	4.250	5.750	96.750	68	2.438	102.00	3061
96	113.25	96.19	4.250	5.750	102.750	68	2.438	108.50	3432

Notes: Commonly referred to as a class 150# in large diameter. Can be furnished with a raised face. All dimensions measured in inches. All weights in pounds and are approximate. *Pressure ratings from AWWA table 4 Class E. Pressure rating at atmospheric temperature is 275 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges. In sizes 24in. and smaller they also match ANSI/ASME B16.5 150-psi standard for steel flanges. The thickness of a 150-psi flange from which the raised face has been removed shall be no less than dimension T minus 0.06 in.

Texas Flange 800-826-3801



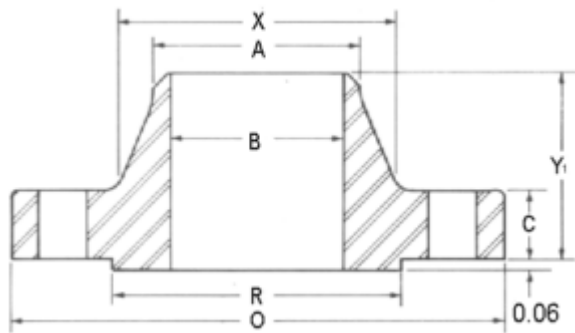
Class 125 WN

Nom Pipe Size								Drilling Template			Weight
	OD of Flange	ID of Flange	Thick	Overall Thickness	Diam. Of Hub	OD of Raised Face	Diam. Hub At Bev.	# of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	
	(O)	(B)	(C)	(Y)	(X)	(R)	(A)				
6	11.00	To Be Specified by Purchaser.	1.000	3.50	7.562	8.50	6.63	8	0.875	9.50	24
8	13.50		1.125	4.00	9.688	10.63	8.63	8	0.875	11.75	39
10	16.00		1.188	4.00	12.000	12.75	10.75	12	1.000	14.25	52
12	19.00		1.250	4.50	14.375	15.00	12.75	12	1.000	17.00	80
14	21.00		1.375	5.00	15.750	16.25	14.00	12	1.125	18.75	110
16	23.50		1.438	5.00	18.000	18.50	16.00	16	1.125	21.25	140
18	25.00		1.562	5.50	19.875	21.00	18.00	16	1.250	22.75	150
20	27.50		1.688	5.69	22.000	23.00	20.00	20	1.250	25.00	180
22	29.50		1.812	5.88	24.000	25.25	22.00	20	1.375	27.25	225
24	32.00		1.875	6.00	26.125	27.25	24.00	20	1.375	29.50	255
26	34.25		2.000	5.00	28.500	29.50	26.00	24	1.375	31.75	265
28	36.50		2.062	5.06	30.750	31.50	28.00	28	1.375	34.00	295
30	38.75		2.125	5.13	32.750	33.75	30.00	28	1.375	36.00	340
32	41.75		2.250	5.25	35.000	36.00	32.00	28	1.625	38.50	410
34	43.75		2.312	5.31	37.000	38.00	34.00	32	1.625	40.50	440
36	46.00		2.375	5.38	39.250	40.25	36.00	32	1.625	42.75	495
38	48.75		2.375	5.38	41.750	42.25	38.00	32	1.625	45.25	570
40	50.75		2.500	5.50	43.750	44.25	40.00	36	1.625	47.25	620
42	53.00		2.625	5.63	46.000	47.00	42.00	36	1.625	49.50	710
44	55.25		2.625	5.63	48.000	49.00	44.00	40	1.625	51.75	750
46	57.25		2.688	5.68	50.000	51.00	46.00	40	1.625	53.75	800
48	59.50		2.750	5.75	52.250	53.50	48.00	44	1.625	56.00	870
50	61.75		2.750	5.75	54.250	55.50	50.00	44	1.875	58.25	900
52	64.00		2.875	5.88	56.500	57.50	52.00	44	1.875	60.50	1000
54	66.25		3.000	6.00	58.750	59.75	54.00	44	1.875	62.75	1100
60	73.00		3.125	6.13	65.250	66.00	60.00	52	1.875	69.25	1350
66	80.00		3.375	6.38	71.500	-	66.00	52	1.875	76.00	1775
72	86.50		3.500	6.50	78.500	-	72.00	60	1.875	82.50	2100
84	99.75		3.875	6.88	90.500	-	84.00	64	2.125	95.50	3800
96	113.25		4.250	7.25	102.750	-	96.00	68	2.438	108.50	

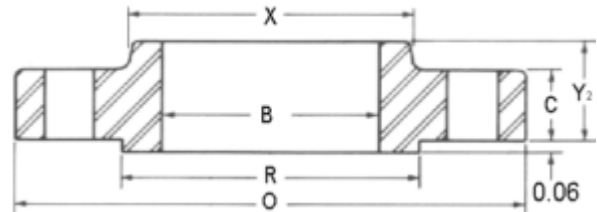
Notes: Can be furnished with a flat face. All dimensions measured in inches. All weights in pounds and are approximate. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges.

Texas Flange 800-826-3801

Class 250* (300psi)



Weld Neck (B determined by Purchaser)



Slip On

Matches B16.1 Class 250 Valves and Pumps

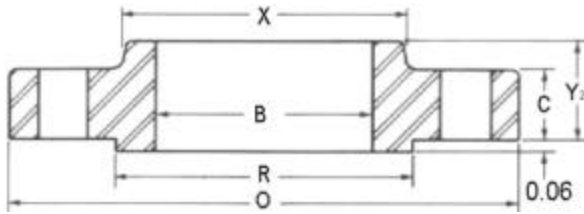
Nominal Pipe Size	OD of Flange	ID of Flange	Thick	LTH		Hub Dia	Drilling Template			Weights		
				WN	SO		Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle			
	(O)	(B)	(C)	(Y)	(Y)	(X)				Weld Neck	Slip- on	Blind
26	38.25	26.25	2.81	5.81	4.75	30.50	28	1.875	34.50	534	531	916
28	40.75	28.25	2.94	5.94	5.00	33.00	28	1.875	37.00	629	637	1095
30	43.00	30.25	3.00	6.00	5.00	35.25	28	1.875	39.25	702	707	1236
32	45.25	32.25	3.12	6.12	5.12	37.50	28	1.875	41.50	793	801	1424
34	47.50	34.25	3.25	6.25	5.25	39.50	28	1.875	43.50	882	889	1649
36	50.00	36.25	3.38	6.38	5.38	41.50	32	2.125	46.00	969	970	1884
38	52.25	38.25	3.44	6.44	5.50	43.50	32	2.125	48.00	1057	1062	2094
40	54.25	40.25	3.56	6.56	5.50	45.75	36	2.125	50.25	1158	1172	2336
42	57.00	42.25	3.69	6.94	5.62	47.75	36	2.125	52.75	1318	1288	2673
44	59.25	44.25	3.75	7.00	5.75	49.75	36	2.125	55.00	1423	1397	2935
46	61.50	46.25	3.88	7.12	5.88	51.75	40	2.125	57.25	1536	1510	3272
48	65.00	48.25	4.00	7.25	6.00	54.00	40	2.125	60.75	1824	1797	3768

Notes: All dimensions measured in inches. All weights in pounds and are approximate.

*AWWA Pressure rating at atmospheric temperature is 300 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 250 cast iron pipe and flanged fittings.

Texas Flange 877-610-8924

Industry Standard CLASS 75 Slip-On & Blind



Slip-On



Blind

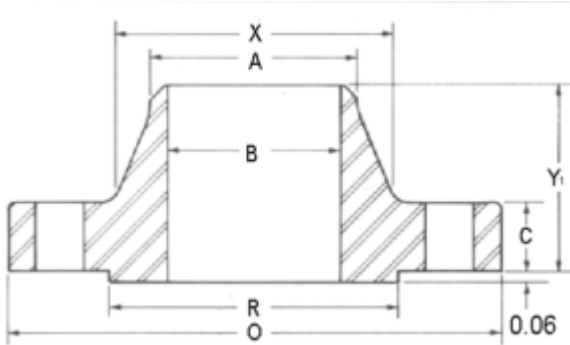
Nom Size	THICKNESS							Drilling			Weight	
	OD	Slip-On	Blind	OD RF	Dia at Base	Bore	LTH	Bolt Circle	Dia Holes	# Holes	Slip-On	Blind
	O	C	C	R	X	B	Y					
26	33.00	1.25	1.25	30.00	28.50	26.25	2.25	31.00	1.00	32	120	290
28	35.00	1.25	1.38	32.00	30.50	28.25	2.25	33.00	1.00	36	140	360
30	37.00	1.25	1.38	34.00	32.50	30.25	2.25	35.00	1.00	36	150	405
32	39.50	1.25	1.50	36.25	34.63	32.25	2.50	37.38	1.13	40	170	500
34	41.50	1.25	1.63	38.25	36.63	34.25	2.50	39.38	1.13	40	180	600
36	43.50	1.25	1.63	40.25	38.63	36.25	2.50	41.38	1.13	44	190	660
42	50.00	1.25	1.88	46.50	44.75	42.25	2.75	47.75	1.25	48	235	1000
48	56.00	1.25	2.13	52.50	50.75	48.25	2.88	53.75	1.25	56	270	1450
54	62.50	1.38	2.38	59.00	57.25	54.25	3.13	60.25	1.25	68	335	2000
60	68.50	1.63	2.63	65.00	63.25	60.25	3.63	66.25	1.25	72	450	2675
66	75.50	1.75	2.88	71.63	69.50	66.25	4.00	73.00	1.38	72	590	3550
72	81.50	2.00	3.13	77.63	75.50	72.25	4.50	79.00	1.38	80	730	4500

Dimensions in inches.

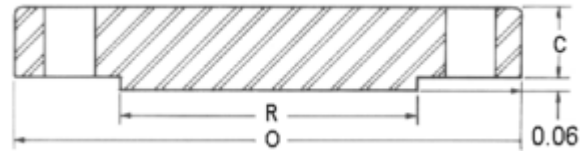
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

Industry Standard CLASS 75 Weld Neck & Blind



Weld Neck



Blind

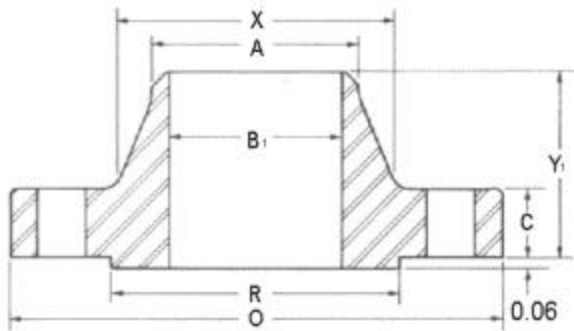
Nom Size	THICKNESS								Drilling			Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	31.50	1.15	1.25	28.63	27.13	To be specified by Purchaser.	3.00	To be determined by design requirements.	29.63	1.00	32	98	265
28	33.50	1.25	1.25	30.63	29.13		3.00		31.63	1.00	36	105	300
30	35.50	1.25	1.38	32.63	31.13		3.00		33.63	1.00	36	110	370
32	38.25	1.25	1.50	35.00	33.38		3.25		36.16	1.13	36	140	470
34	40.25	1.25	1.50	37.00	35.38		3.25		38.13	1.13	40	150	520
36	42.25	1.25	1.63	39.00	37.38		3.25		40.13	1.13	40	160	620
42	49.00	1.25	1.88	45.50	43.75		3.50		46.75	1.25	48	210	970
48	55.00	1.25	2.13	51.50	49.75		3.75		52.75	1.25	52	240	1375
54	61.25	1.38	2.38	57.75	56.00		4.00		59.00	1.25	64	310	1925
60	67.25	1.63	2.63	63.75	62.00		4.38		65.00	1.25	72	400	2575
66	74.00	1.88	2.88	70.13	68.00		4.88		71.50	1.38	72	560	3400
72	80.00	2.25	3.13	76.13	74.00		5.25		77.50	1.38	80	700	4350

Dimensions in inches.

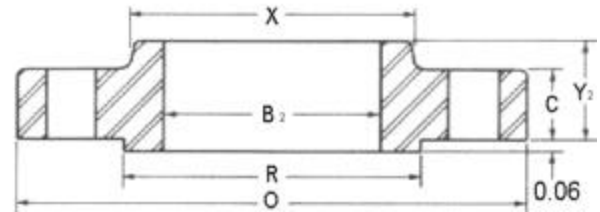
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

Industry Standard Class 175



Weld Neck



Slip – On

Nom Size	Thickness (C)				RF	Hub Dia	Bore		Length Thru Hub (Y)		Dia. Hub at bevel
	OD	Weld Neck	Slip On	Blind			WN	SO	WN	SO	
	O				R	X	B1	B2			A
26	31.50	1.38	1.38	1.78	29.00	27.63	To be specified by purchaser.	26.25	3.38	2.75	To be established by design requirements.
28	33.50	1.38	1.38	2.00	31.00	29.63		28.25	3.38	2.75	
30	35.75	1.38	1.38	2.13	33.25	31.88		30.25	3.63	2.75	
32	37.75	1.38	1.38	2.25	35.25	33.88		32.25	3.63	2.75	
34	40.25	1.50	1.75	2.38	37.38	35.88		34.25	3.75	3.38	
36	42.25	1.50	1.75	2.50	39.38	37.88		36.25	3.75	3.38	
38	44.25	1.75	2.00	2.63	41.38	39.88		38.25	4.13	3.75	
40	46.25	1.75	2.00	2.75	43.38	41.88		40.25	4.13	4.00	
42	49.00	2.00	2.38	2.88	45.75	44.13		42.25	4.50	4.38	
44	51.00	2.00	2.38	3.00	47.75	46.13		44.25	4.50	4.38	
46	53.00	2.00	2.38	3.13	49.75	48.13		46.25	4.50	4.63	
48	55.00	2.25	2.63	3.38	51.75	50.13		48.25	4.88	4.88	
50	57.00	2.25	2.63	3.38	53.75	52.13		50.25	4.88	4.88	
52	59.50	2.63	3.00	3.63	56.00	54.25		52.25	5.38	5.38	
54	61.50	2.63	3.00	3.63	58.00	56.25		54.25	5.38	5.38	
60	67.50	2.75	3.13	4.00	64.00	62.25		60.25	5.75	5.88	
66	73.50	3.13	4.00	4.38	70.00	68.50		66.25	6.13	6.88	
72	80.00	3.63	5.00	4.75	76.50	74.50		72.25	6.63	8.00	

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Class 175 continued from previous page

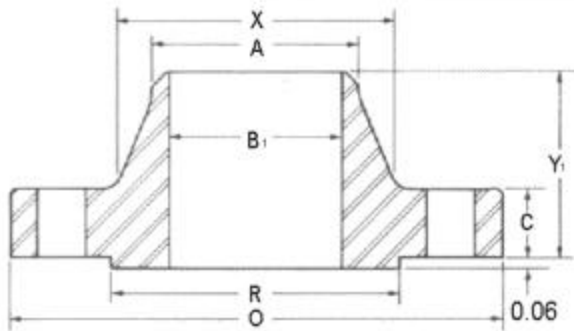
Nom Size	Drilling			Approx. Weight		
	BC Dia.	Dia. of Holes	# of Holes	Weld Neck	Slip On	Blind
26	29.88	0.88	28	120	105	405
28	31.88	0.88	28	130	115	490
30	34.13	0.88	36	150	130	590
32	36.13	0.88	36	160	140	700
34	38.38	1.00	36	195	200	840
36	40.38	1.00	36	205	210	970
38	42.38	1.00	36	245	250	1125
40	44.38	1.00	40	255	270	1300
42	46.88	1.13	40	340	365	1500
44	48.88	1.13	40	360	380	1700
46	50.88	1.13	40	375	410	1925
48	52.88	1.13	44	430	460	2225
50	54.88	1.13	44	450	480	2400
52	57.25	1.25	44	560	600	2800
54	59.25	1.25	44	580	620	3000
60	65.25	1.25	48	680	730	4000
66	71.25	1.25	56	830	1000	5175
72	77.75	1.25	64	1075	1400	6650

Notes: Sizes are nominal inside diameters of pipe or shell used with Welding Neck flanges, and nominal outside diameters of pipe or shell used with Slip-On flanges.
Larger sizes as well as intermediate sizes can be furnished.

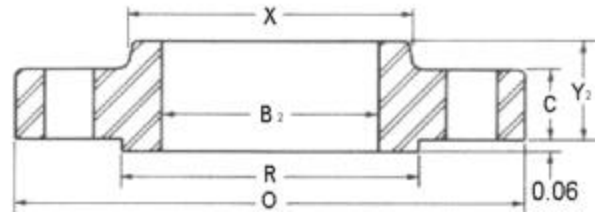
Texas Flange 800-826-3801

Need Help... Call Us

Industry Standard Class 350



Weld Neck



Slip – On

Nom Size	Thickness (C)						Bore		Length Thru Hub (Y)		Dia. Hub at bevel
	OD	Weld Neck	Slip On	Blind	RF	Hub Dia	WN	SO	WN	SO	
	O				R	X	B1	B2			
26	32.75	2.50	2.50	2.75	29.50	27.88	To be specified by purchaser.	26.25	5.00	4.50	To be established by design requirements.
28	34.75	2.50	2.50	2.88	31.50	29.88		28.25	5.00	4.50	
30	37.00	2.63	2.63	3.00	33.75	32.13		30.25	5.25	4.75	
32	39.00	2.75	2.75	3.25	35.75	34.13		32.25	5.50	5.00	
34	41.00	2.88	2.88	3.38	37.75	36.13		34.25	5.75	5.13	
36	43.75	3.13	3.13	3.63	40.25	38.50		36.25	6.13	5.63	
38	45.75	3.13	3.13	3.75	42.25	40.50		38.25	6.13	5.63	
40	47.75	3.25	3.25	4.00	44.25	42.50		40.25	6.25	5.88	
42	50.00	3.50	3.50	4.13	46.50	44.75		42.25	6.50	6.13	
44	52.75	3.75	3.75	4.38	48.88	46.75		44.25	6.75	6.75	
46	54.75	4.25	4.25	4.75	50.88	48.75		46.25	7.25	7.25	
48	56.75	4.25	4.25	4.75	52.88	50.75		48.25	7.25	7.25	
52	61.50	4.25	-	-	57.25	55.00		52.25	7.50	-	
54	63.50	4.50	4.75	-	59.25	57.00		54.25	7.75	8.25	
60	69.50	4.50	5.00	-	65.25	63.00		60.25	8.00	8.50	
66	77.00	4.00	-	-	72.38	70.00		66.25	8.50	-	
72	83.00	4.00	-	-	78.38	76.00		72.25	9.00	-	

Continued on next page

Class 350 continued from previous page

Nom Size	Drilling			Approx. Weight		
	BC Dia.	Dia. of Holes	# of Holes	Weld Neck	Slip On	Blind
26	30.63	1.13	28	245	225	580
28	32.63	1.13	28	260	250	750
30	34.88	1.13	32	305	295	890
32	36.88	1.13	36	340	325	1050
34	38.88	1.13	40	375	355	1225
36	41.50	1.25	40	480	465	1500
38	43.50	1.25	40	510	490	1700
40	45.50	1.25	44	540	530	1975
42	47.75	1.25	48	640	620	2225
44	50.25	1.38	44	760	760	2625
46	52.25	1.38	48	880	880	2950
48	54.25	1.38	48	920	920	3300
52	58.75	1.50	52	1075	-	-
54	60.75	1.50	52	1200	1150	-
60	66.75	1.50	60	1325	1450	-
66	74.00	1.63	60	1675	-	-
72	80.00	1.63	72	1850	-	-

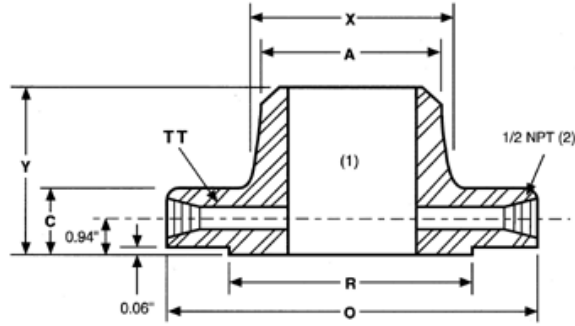
Notes: Sizes are nominal inside diameters of pipe or shell used with Welding Neck flanges, and nominal outside diameters of pipe or shell used with Slip-On flanges.

Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

Need Help... Call Us

Welding Neck Orifice Class 300



	Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam of hub at base	Diam. of hub at point of welding	Length thru hub	Diam. of pressure connection	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle
		O	C	R	X	A	Y	TT				
in.	1"	4.88	1.50	2.00	2.12	1.32	3.25	1/4	4	0.69	5/8	3.50
mm.		124.0	38.1	50.8	53.8	33.5	82.6	6.4		17.5	15.9	88.9
in.	1 1/2"	6.12	1.50	2.88	2.75	1.90	3.38	1/4	4	0.81	3/4	4.50
mm.		155.4	38.1	73.2	69.9	48.3	85.9	6.4		20.6	19.1	114.3
in.	2"	6.50	1.50	3.62	3.31	2.38	3.38	1/4	8	0.69	5/8	5.00
mm.		165.1	38.1	91.9	84.1	60.5	85.9	6.4		17.5	15.9	127.0
in.	2 1/2"	7.50	1.50	4.12	3.94	2.88	3.50	1/4	8	0.81	3/4	5.88
mm.		190.5	38.1	104.6	100.1	73.2	88.9	6.4		20.6	19.1	149.4
in.	3"	8.25	1.50	5.00	4.62	3.50	3.50	3/8	8	0.81	3/4	6.62
mm.		209.6	38.1	127.0	117.3	88.9	88.9	9.5		20.6	19.1	168.1
in.	4"	10.00	1.50	6.19	5.75	4.50	3.62	1/2	8	0.81	3/4	7.88
mm.		254.0	38.1	157.2	146.1	114.3	91.9	12.7		20.6	19.1	200.2
in.	6"	12.50	1.50	8.50	8.12	6.63	3.94	1/2	12	0.88	3/4	10.62
mm.		317.5	38.1	215.9	206.2	168.4	100.1	12.7		22.4	19.1	269.7
in.	8"	15.00	1.62	10.62	10.25	8.63	4.38	1/2	12	1.00	7/8	13.00
mm.		381.0	41.1	269.7	260.4	219.2	111.3	12.7		25.4	22.2	330.2
in.	10"	17.50	1.88	12.75	12.62	10.75	4.62	1/2	16	1.12	1	15.25
mm.		444.5	47.8	323.9	320.5	273.1	117.3	12.7		28.4	25.4	387.4
in.	12"	20.50	2.00	15.00	14.75	12.75	5.12	1/2	16	1.25	1 1/8	17.75
mm.		520.7	50.8	381.0	374.7	323.9	130.0	12.7		31.8	28.6	450.9
in.	14"	23.00	2.12	16.25	16.75	14.00	5.62	1/2	20	1.25	1 1/8	20.25
mm.		584.2	53.8	412.8	425.5	355.6	142.7	12.7		31.8	28.6	514.4
in.	16"	25.50	2.25	18.50	19.00	16.00	5.75	1/2	20	1.38	1 1/4	22.50
mm.		647.7	57.2	469.9	482.6	406.4	146.1	12.7		35.1	31.8	571.5
in.	18"	28.00	2.38	21.00	21.00	18.00	6.25	1/2	24	1.38	1 1/4	24.75
mm.		711.2	60.5	533.4	533.4	457.2	158.8	12.7		35.1	31.8	628.7
in.	20"	30.50	2.50	23.00	23.12	20.00	6.38	1/2	24	1.38	1 1/4	27.00
mm.		774.7	63.5	584.2	587.2	508.0	162.1	12.7		35.1	31.8	685.8
in.	24"	36.00	2.75	27.25	27.62	24.00	6.62	1/2	24	1.62	1 1/2	32.00
mm.		914.4	69.9	692.2	701.5	609.6	168.1	12.7		41.1	38.1	812.8

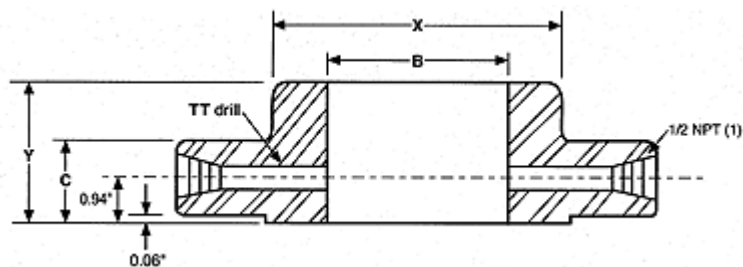
(1) Bore diameter to be specified by purchaser

(2) Other NPT sizes may be furnished if required.

(3) Weld neck flanges NPS 3 and smaller are identical to Class 600 flanges and may be so marked.

Texas Flange 877-610-8924

Slip-On Orifice Class 300



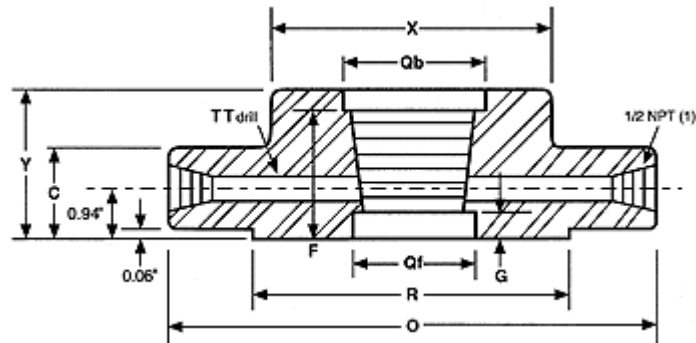
	Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam of hub at base	Length thru hub	Bore	Diam. of pressure connection	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle
		O	C	R	X	Y	B	TT				
in.	1"	4.88	1.50	2.00	2.12	1.88	1.36	1/4	4	0.69	5/8	3.50
mm.		124.0	38.1	50.8	53.8	47.8	34.5	6.4		17.5	15.9	88.9
in.	1 1/2"	6.12	1.50	2.88	2.75	1.88	1.95	1/4	4	0.81	3/4	4.50
mm.		155.4	38.1	73.2	69.9	47.8	49.5	6.4		20.6	19.1	114.3
in.	2"	6.50	1.50	3.62	3.31	1.94	2.44	1/4	8	0.69	5/8	5.00
mm.		165.1	38.1	91.9	84.1	49.3	62.0	6.4		17.5	15.9	127.0
in.	2 1/2"	7.50	1.50	4.12	3.94	2.00	2.94	1/4	8	0.81	3/4	5.88
mm.		190.5	38.1	104.6	100.1	50.8	74.7	6.4		20.6	19.1	149.4
in.	3"	8.25	1.50	5.00	4.62	2.06	3.57	3/8	8	0.81	3/4	6.62
mm.		209.6	38.1	127.0	117.3	52.3	90.7	9.5		20.6	19.1	168.1
in.	4"	10.00	1.50	6.19	5.75	2.12	4.57	1/2	8	0.81	3/4	7.88
mm.		254.0	38.1	157.2	146.1	53.8	116.1	12.7		20.6	19.1	200.2
in.	6"	12.50	1.50	8.50	8.12	2.12	6.72	1/2	12	0.88	3/4	10.62
mm.		317.5	38.1	215.9	206.2	53.8	170.7	12.7		22.4	19.1	269.7
in.	8"	15.00	1.62	10.62	10.25	2.44	8.72	1/2	12	1.00	7/8	13.00
mm.		381.0	41.1	269.7	260.4	62.0	221.5	12.7		25.4	22.2	330.2
in.	10"	17.50	1.88	12.75	12.62	2.62	10.88	1/2	16	1.12	1	15.25
mm.		444.5	47.8	323.9	320.5	66.5	276.4	12.7		28.4	25.4	387.4
in.	12"	20.50	2.00	15.00	14.75	2.88	12.88	1/2	16	1.25	1 1/8	17.75
mm.		520.7	50.8	381.0	374.7	73.2	327.2	12.7		31.8	28.6	450.9
in.	14"	23.00	2.12	16.25	16.75	3.00	14.14	1/2	20	1.25	1 1/8	20.25
mm.		584.2	53.8	412.8	425.5	76.2	359.2	12.7		31.8	28.6	514.4

Class 300 Continued from previous page

	Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam of hub at base	Length thru hub	Bore	Diam. of pressure connection	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle
<i>in.</i>	16"	25.50	2.25	18.50	19.00	3.25	16.16	1/2	20	1.38	1 1/4	22.50
<i>mm.</i>		647.7	57.2	469.9	482.6	82.6	410.5	12.7		35.1	31.8	571.5
<i>in.</i>	18"	28.00	2.38	21.00	21.00	3.50	18.18	1/2	24	1.38	1 1/4	24.75
<i>mm.</i>		711.2	60.5	533.4	533.4	88.9	461.8	12.7		35.1	31.8	628.7
<i>in.</i>	20"	30.50	2.50	23.00	23.12	3.75	20.20	1/2	24	1.38	1 1/4	27.00
<i>mm.</i>		774.7	63.5	584.2	587.2	95.3	513.1	12.7		35.1	31.8	685.8
<i>in.</i>	24"	36.00	2.75	27.25	27.62	4.19	24.25	1/2	24	1.62	1 1/2	32.00
<i>mm.</i>		914.4	69.9	692.2	701.5	106.4	616.0	12.7		41.1	38.1	812.8

Texas Flange 877-610-8924

Threaded Orifice Class 300



Nominal size		Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam of hub at base	Length thru hub	Diameter of counterbore		Counterbore depth (from face)		Diam. of pressure connection	No. of Bolt holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle
		O	C	R	X	Y	Qb (2)	Qf (3)	F	G	TT				
in.	1"	4.88	1.50	2.00	2.12	1.88	1.41	1.30	1.44	0.75	1/4	4	0.69	5/8	3.50
mm.		124.0	38.1	50.8	53.8	47.8	35.8	33.0	36.6	19.1	6.4		17.5	15.9	88.9
in.	1 1/2"	6.12	1.50	2.88	2.75	1.88	1.99	1.89	1.47	0.72	1/4	4	0.81	3/4	4.50
mm.		155.4	38.1	73.2	69.9	47.8	50.5	48.0	37.3	18.3	6.4		20.6	19.1	114.3
in.	2"	6.50	1.50	3.62	3.31	1.94	2.50	2.36	1.50	0.69	1/4	8	0.69	5/8	5.00
mm.		165.1	38.1	91.9	84.1	49.3	63.5	59.9	38.1	17.5	6.4		17.5	15.9	127.0
in.	2 1/2"	7.50	1.50	4.12	3.94	2.00	3.00	2.84	1.75	0.56	1/4	8	0.81	3/4	5.88
mm.		190.5	38.1	104.6	100.1	50.8	76.2	72.1	44.5	14.2	6.4		20.6	19.1	149.4
in.	3"	8.25	1.50	5.00	4.62	2.06	3.63	3.46	1.81	0.56	3/8	8	0.81	3/4	6.62
mm.		209.6	38.1	127.0	117.3	52.3	92.2	87.9	46.0	14.2	9.5		20.6	19.1	168.1
in.	4"	10.00	1.50	6.19	5.75	2.12	4.63	4.45	1.88	0.56	1/2	8	0.81	3/4	7.88
mm.		254.0	38.1	157.2	146.1	53.8	117.6	113.0	47.8	14.2	12.7		20.6	19.1	200.2
in.	6"	12.50	1.50	8.50	8.12	2.12	6.75	6.57	1.88	0.31	1/2	12	0.88	3/4	10.62
mm.		317.5	38.1	215.9	206.2	53.8	171.5	166.9	47.8	7.9	12.7		22.4	19.1	269.7
in.	8"	15.00	1.62	10.62	10.25	2.44	8.75	8.55	2.19	0.44	1/2	12	1.00	7/8	13.00
mm.		381.0	41.1	269.7	260.4	62.0	222.3	217.2	55.6	11.2	12.7		25.4	22.2	330.2

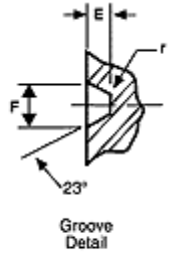
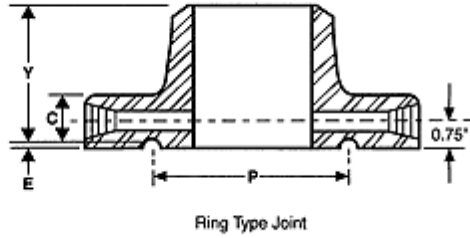
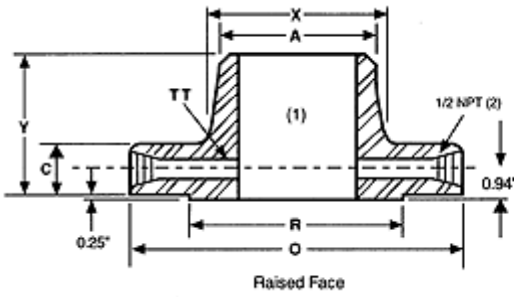
(1) Other NPT sizes may be furnished if required.

(2) Qb counterbore back.

(3) Qf counterbore face.

Texas Flange 877-610-8924

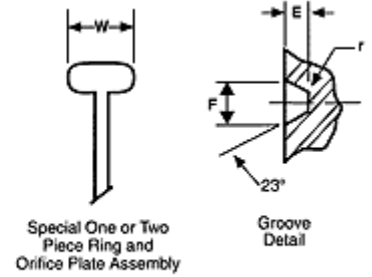
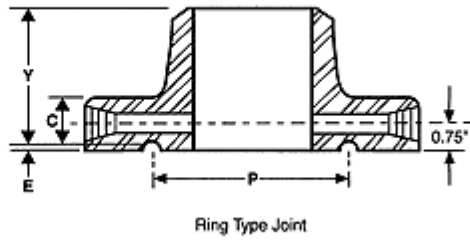
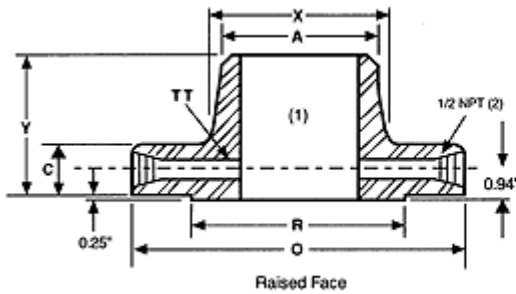
Welding Neck Orifice Class 400



															Ring Type Joint			
	Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam. of hub at base	Diam. of hub at point of welding	Length thru hub	Diam. of pressure connection	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle	Groove number	Pitch diam.	Groove depth	Groove width	Rad at bott.	Spec. oval R. H.
		O	C	R	X	A	Y	TT						P	E	F	r max.	W
Sizes 1" thru 3" are identical to Class 600																		
in.	4"	10.00	1.50	6.19	5.75	4.50	3.50	1/2	8	1.00	7/8	7.88	R37	5.875	0.312	0.469	0.03	1.06
mm.		254.0	38.1	157.2	146.1	114.3	88.9	12.7		25.4	22.2	200.2		149.225	7.925	11.913	0.8	26.9
in.	6"	12.50	1.62	8.50	8.12	6.63	4.06	1/2	12	1.00	7/8	10.62	R45	8.312	0.312	0.469	0.03	1.06
mm.		317.5	41.1	215.9	206.2	168.4	103.1	12.7		25.4	22.2	269.7		211.125	7.925	11.913	0.8	26.9
in.	8"	15.00	1.88	10.62	10.25	8.63	4.62	1/2	12	1.12	1	13.00	R49	10.625	0.312	0.469	0.03	1.06
mm.		381.0	47.8	269.7	260.4	219.2	117.3	12.7		28.4	25.4	330.2		269.875	7.925	11.913	0.8	26.9
in.	10"	17.50	2.12	12.75	12.62	10.75	4.88	1/2	16	1.25	1 1/8	15.25	R53	12.750	0.312	0.469	0.03	1.06
mm.		444.5	53.8	323.9	320.5	273.1	124.0	12.7		31.8	28.6	387.4		323.850	7.925	11.913	0.8	26.9
in.	12"	20.50	2.25	15.00	14.75	12.75	5.38	1/2	16	1.38	1 1/4	17.75	R57	15.000	0.312	0.469	0.03	1.06
mm.		520.7	57.2	381.0	374.7	323.9	136.7	12.7		35.1	31.8	450.9		381.000	7.925	11.913	0.8	26.9
in.	14"	23.00	2.39	16.25	16.75	14.00	5.88	1/2	20	1.38	1 1/4	20.25	R61	16.500	0.312	0.469	0.03	1.06
mm.		584.2	60.7	412.8	425.5	355.6	149.4	12.7		35.1	31.8	514.4		419.100	7.925	11.913	0.8	26.9
in.	16"	25.50	2.50	18.50	19.00	16.00	6.00	1/2	20.0	1.5	1.4	22.5	R65	18.500	0.312	0.469	0.03	1.19
mm.		647.7	63.5	469.9	482.6	406.4	152.4	12.7		38.1	34.9	571.5		469.900	7.925	11.913	0.8	30.2
in.	18"	28.00	2.62	21.00	21.00	18.00	6.50	1/2	24	1.50	1 3/8	24.75	R69	21.000	0.312	0.469	0.03	1.19
mm.		711.2	66.5	533.4	533.4	457.2	165.1	12.7		38.1	34.9	628.7		533.400	7.925	11.913	0.8	30.2
in.	20"	30.50	2.75	23.00	23.12	20.00	6.62	1/2	24	1.62	1 1/2	27.00	R73	23.000	0.375	0.531	0.06	1.25
mm.		774.7	69.9	584.2	587.2	508.0	168.1	12.7		41.1	38.1	685.8		584.200	9.525	13.487	1.5	31.8
in.	24"	36.00	3.00	27.25	27.62	24.00	6.88	1/2	24	1.89	1 3/4	32.00						
mm.		914.4	76.2	692.2	701.5	609.6	174.8	12.7		48.0	44.5	812.8						

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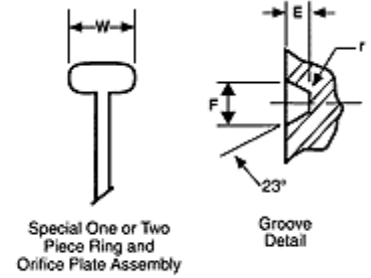
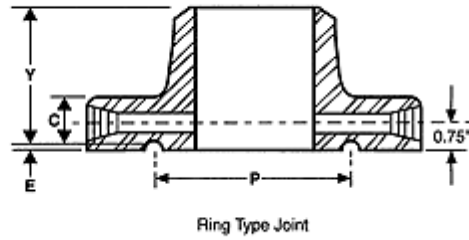
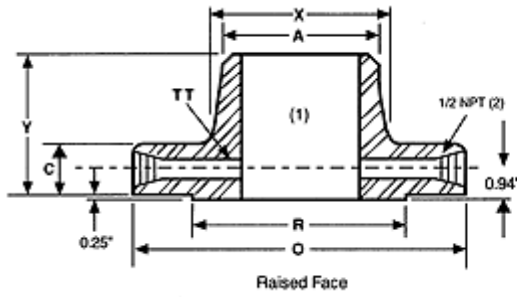
Welding Neck Orifice Class 600



														Ring Type Joint					
	Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam of hub at base	Diam. of hub at point of welding	Length thru hub	Diam. of pressure conection	No. of holes	Diam. of holes		Diam. of bolts	Diam. of bolt circle	Groove number	Pitch diam.	Groove depth	Groove widht	Rad at bott.	Spec. oval R. H.
		O	C	R	X	A	Y	TT		R.F	R.J.				P	E	F	r max.	W
in.	1"	4.88	1.50	2.00	2.12	1.32	3.25	1/4	4	0.69	0.75	5/8	3.50	R16	2.000	0.250	0.344	0.03	1.00
mm.		124.0	38.1	50.8	53.8	33.5	82.6	6.4		17.5	19.1	15.9	88.90		50.800	6.350	8.738	0.8	25.4
in.	1 1/2"	6.12	1.50	2.88	2.75	1.90	3.38	1/4	4	0.81	0.88	3/4	4.50	R20	2.688	0.250	0.344	0.03	1.00
mm.		155.4	38.1	73.2	69.9	48.3	85.9	6.4		20.6	22.4	19.1	114.30		68.275	6.350	8.738	0.8	25.4
in.	2"	6.50	1.50	3.62	3.31	2.38	3.38	1/4	8	0.69	0.75	5/8	5.00	R23	3.250	0.312	0.469	0.03	1.06
mm.		165.1	38.1	91.9	84.1	60.5	85.9	6.4		17.5	19.1	15.9	127.00		82.550	7.925	11.913	0.8	26.9
in.	2 1/2"	7.50	1.50	4.12	3.94	2.88	3.50	1/4	8	0.81	0.88	3/4	5.88	R26	4.000	0.312	0.469	0.03	1.06
mm.		190.5	38.1	104.6	100.1	73.2	88.9	6.4		20.6	22.4	19.1	149.35		101.600	7.925	11.913	0.8	26.9
in.	3"	8.25	1.50	5.00	4.62	3.50	3.50	3/8	8	0.81	0.88	3/4	6.62	R31	4.875	0.312	0.469	0.03	1.06
mm.		209.6	38.1	127.0	117.3	88.9	88.9	9.5		20.6	22.4	19.1	168.15		123.825	7.925	11.913	0.8	26.9
in.	4"	10.75	1.50	6.19	6.00	4.50	4.00	1/2	8	1.00	1.00	7/8	8.50	R37	5.875	0.312	0.469	0.03	1.06
mm.		273.1	38.1	157.2	152.4	114.3	101.6	12.7		25.4	25.4	22.2	215.90		149.225	7.925	11.913	0.8	26.9
in.	6"	14.00	1.88	8.50	8.75	6.63	4.62	1/2	12	1.12	1.12	1	11.50	R45	8.312	0.312	0.469	0.03	1.06
mm.		355.6	47.8	215.9	222.3	168.4	117.3	12.7		28.4	28.4	25.4	292.10		211.125	7.925	11.913	0.8	26.9
in.	8"	16.50	2.19	10.62	10.75	8.63	5.25	1/2	12	1.25	1.25	1 1/8	13.75	R49	10.625	0.312	0.469	0.03	1.06
mm.		419.1	55.6	269.7	273.1	219.2	133.4	12.7		31.8	31.8	28.6	349.25		269.875	7.925	11.913	0.8	26.9
in.	10"	20.00	2.50	12.75	13.50	10.75	6.00	1/2	16	1.38	1.38	1 1/4	17.00	R53	12.750	0.312	0.469	0.03	1.06
mm.		508.0	63.5	323.9	342.9	273.1	152.4	12.7		35.1	35.1	31.8	431.80		323.850	7.925	11.913	0.8	26.9
in.	12"	22.00	2.62	15.00	15.75	12.75	6.12	1/2	20	1.38	1.38	1 1/4	19.25	R57	15.000	0.312	0.469	0.03	1.06
mm.		558.8	66.5	381.0	400.1	323.9	155.4	12.7		35.1	35.1	31.8	488.95		381.000	7.925	11.913	0.8	26.9
in.	14"	23.75	2.75	16.25	17.00	14.00	6.50	1/2	20	1.50	1.50	1 3/8	20.75	R61	16.500	0.312	0.469	0.03	1.06
mm.		603.3	69.9	412.8	431.8	355.6	165.1	12.7		38.1	38.1	35.1	527.05		419.100	7.925	11.913	0.8	26.9
in.	16"	27.00	3.00	18.50	19.50	16.00	7.00	1/2	20.0	1.6	1.6	1.5	23.75	R65	18.500	0.312	0.469	0.03	1.19
mm.		685.8	76.2	469.9	495.3	406.4	177.8	12.7		41.1	41.1	38.1	603.25		469.900	7.925	11.913	0.8	30.2
in.	18"	29.25	3.25	21.00	21.50	18.00	7.25	1/2	20	1.75	1.75	1 5/8	25.75	R69	21.000	0.312	0.469	0.03	1.19
mm.		743.0	82.6	533.4	546.1	457.2	184.2	12.7		44.5	44.5	41.3	654.05		533.400	7.925	11.913	0.8	30.2
in.	20"	32.00	3.50	23.00	24.00	20.00	7.50	1/2	24	1.75	1.75	1 5/8	28.50	R73	23.000	0.375	0.531	0.06	1.25
mm.		812.8	88.9	584.2	609.6	508.0	190.5	12.7		44.5	44.5	41.3	723.90		584.200	9.525	13.487	1.5	31.8
in.	24"	37.00	4.00	27.25	28.25	24.00	8.00	1/2	24	2.00	2.00	1 7/8	33.00						
mm.		939.8	101.6	692.2	717.6	609.6	203.2	12.7		50.8	50.8	47.6	838.20						

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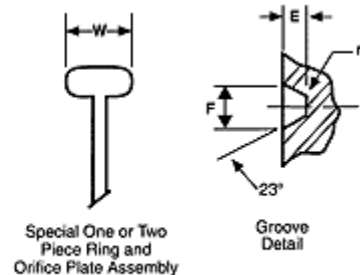
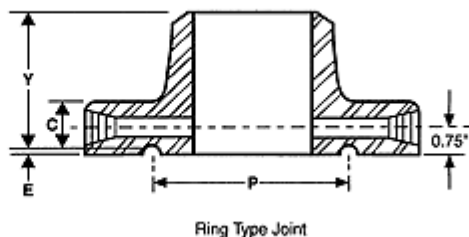
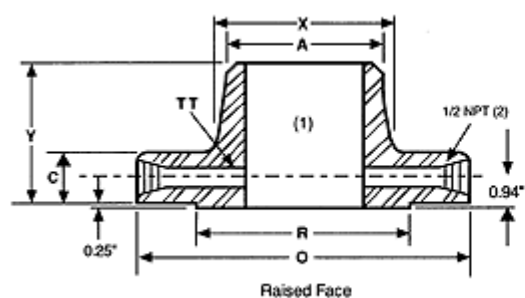
Welding Neck Orifice Class 900



													Ring Type Joint					
	Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam. of hub at base	Diam. of hub at point of welding	Length thru hub	Diam. of pressure connection	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle	Groove number	Pitch diam.	Groove depth	Groove width	Rad at bott.	Spec. oval R. H.
		O	C	R	X	A	Y	TT						P	E	F	r max.	W
For NPS 2 1/2" and lower see Class 1500																		
in.	3"	9.50	1.50	5.00	5.00	3.50	4.00	3/8	8	1.00	7/8	7.50	R31	4.875	0.312	0.469	0.03	1.06
mm.		241.3	38.1	127.0	127.0	88.9	101.6	9.5		25.4	22.2	190.5		123.825	7.925	11.913	0.8	26.9
in.	4"	11.50	1.75	6.19	6.25	4.50	4.50	1/2	8	1.25	1 1/8	9.25	R37	5.875	0.312	0.469	0.03	1.06
mm.		292.1	44.5	157.2	158.8	114.3	114.3	12.7		31.8	28.6	235.0		149.225	7.925	11.913	0.8	26.9
in.	6"	15.00	2.19	8.50	9.25	6.63	5.50	1/2	12	1.25	1 1/8	12.50	R45	8.312	0.312	0.469	0.03	1.06
mm.		381.0	55.6	215.9	235.0	168.4	139.7	12.7		31.8	28.6	317.5		211.125	7.925	11.913	0.8	26.9
in.	8"	18.50	2.50	10.62	11.75	8.63	6.38	1/2	12	1.50	1 3/8	15.50	R49	10.625	0.312	0.469	0.03	1.06
mm.		469.9	63.5	269.7	298.5	219.2	162.1	12.7		38.1	34.9	393.7		269.875	7.925	11.913	0.8	26.9
in.	10"	21.50	2.75	12.75	14.50	10.75	7.25	1/2	16	1.50	1 3/8	18.50	R53	12.750	0.312	0.469	0.03	1.06
mm.		546.1	69.9	323.9	368.3	273.1	184.2	12.7		38.1	34.9	469.9		323.850	7.925	11.913	0.8	26.9
in.	12"	24.00	3.12	15.00	16.50	12.75	7.88	1/2	20	1.50	1 3/8	21.00	R57	15.000	0.312	0.469	0.03	1.06
mm.		609.6	79.2	381.0	419.1	323.9	200.2	12.7		38.1	34.9	533.4		381.000	7.925	11.913	0.8	26.9
in.	14"	25.25	3.38	16.25	17.75	14.00	8.38	1/2	20	1.62	1 1/2	22.00						
mm.		641.4	85.9	412.8	450.9	355.6	212.9	12.7		41.1	38.1	558.8						
in.	16"	27.75	3.50	18.50	20.00	16.00	8.50	1/2	20.0	1.8	1.6	24.3						
mm.		704.9	88.9	469.9	508.0	406.4	215.9	12.7		44.5	41.3	616.0						
in.	18"	31.00	4.00	21.00	22.25	18.00	9.00	1/2	20	2.00	1 7/8	27.00						
mm.		787.4	101.6	533.4	565.2	457.2	228.6	12.7		50.8	47.6	685.8						
in.	20"	33.75	4.25	23.00	24.50	20.00	9.75	1/2	20	2.12	2	29.50						
mm.		857.3	108.0	584.2	622.3	508.0	247.7	12.7		53.8	50.8	749.3						
in.	24"	41.00	5.50	27.25	29.50	24.00	11.50	1/2	20	2.62	2 1/2	35.50						
mm.		1041.4	139.7	692.2	749.3	609.6	292.1	12.7		66.5	63.5	901.7						

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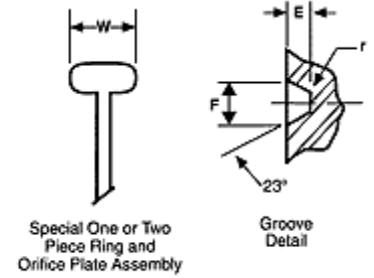
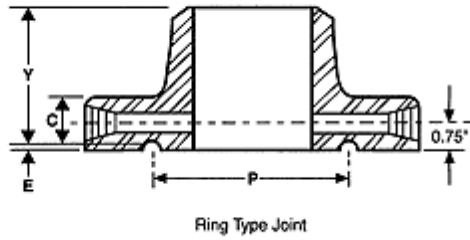
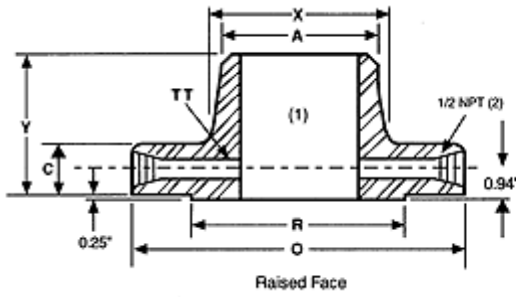
Welding Neck Orifice Class 1500



															Ring Type Joint				
	Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam of hub at base	Diam. of hub at point of welding	Length thru hub	Diam. of pressure conection	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle	Groove number	Pitch diam.	Groove depth	Groove widht	Rad at bott.	Spec. oval R. H.	
		O	C	R	X	A	Y	TT						P	E	F	r max.	W	
in.	1"	5.88	1.50	2.00	2.06	1.32	3.25	1/4	4	1.00	7/8	4.00	R16	2.000	0.250	0.344	0.03	1.00	
mm.		149.4	38.1	50.8	52.3	33.5	82.6	6.4		25.4	22.2	101.6		50.800	6.350	8.738	0.8	25.4	
in.	1 1/2"	7.00	1.50	2.88	2.75	1.90	3.50	1/4	4	1.12	1	4.88	R20	2.688	0.250	0.344	0.03	1.00	
mm.		177.8	38.1	73.2	69.9	48.3	88.9	6.4		28.4	25.4	124.0		68.275	6.350	8.738	0.8	25.4	
in.	2"	8.50	1.50	3.62	4.12	2.38	4.00	1/4	8	1.00	7/8	6.50	R24	3.750	0.312	0.469	0.03	1.06	
mm.		215.9	38.1	91.9	104.6	60.5	101.6	6.4		25.4	22.2	165.1		95.250	7.925	11.913	0.8	26.9	
in.	2 1/2"	9.62	1.62	4.12	4.88	2.88	4.12	1/4	8	1.12	1	7.50	R27	4.250	0.312	0.469	0.03	1.06	
mm.		244.3	41.1	104.6	124.0	73.2	104.6	6.4		28.4	25.4	190.5		107.950	7.925	11.913	0.8	26.9	
in.	3"	10.50	1.88	5.00	5.25	3.50	4.62	3/8	8	1.25	1 1/8	8.00	R35	5.375	0.312	0.469	0.03	1.06	
mm.		266.7	47.8	127.0	133.4	88.9	117.3	9.5		31.8	28.6	203.2		136.525	7.925	11.913	0.8	26.9	
in.	4"	12.25	2.12	6.19	6.38	4.50	4.88	1/2	8	1.38	1 1/4	9.50	R39	6.375	0.312	0.469	0.03	1.06	
mm.		311.2	53.8	157.2	162.1	114.3	124.0	12.7		35.1	31.8	241.3		161.925	7.925	11.913	0.8	26.9	
in.	6"	15.50	3.25	8.50	9.00	6.63	6.75	1/2	12	1.50	1 3/8	12.50	R46	8.312	0.375	0.531	0.06	1.12	
mm.		393.7	82.6	215.9	228.6	168.4	171.5	12.7		38.1	34.9	317.5		211.125	9.525	13.487	1.5	28.4	
in.	8"	19.00	3.62	10.62	11.50	8.63	8.38	1/2	12	1.75	1 5/8	15.50							
mm.		482.6	91.9	269.7	292.1	219.2	212.9	12.7		44.5	41.3	393.7							
in.	10"	23.00	4.25	12.75	14.50	10.75	10.00	1/2	12	2.00	1 7/8	19.00							
mm.		584.2	108.0	323.9	368.3	273.1	254.0	12.7		50.8	47.6	482.6							
in.	12"	26.50	4.88	15.00	17.75	12.75	11.12	1/2	16	2.12	2	22.50							
mm.		673.1	124.0	381.0	450.9	323.9	282.4	12.7		53.8	50.8	571.5							
in.	14"	29.50	5.25	16.25	19.50	14.00	11.75	1/2	16	2.38	2 1/4	25.00							
mm.		749.3	133.4	412.8	495.3	355.6	298.5	12.7		60.5	57.2	635.0							
in.	16"	32.50	5.75	18.50	21.75	16.00	12.25	1/2	16.0	2.6	2.5	27.8							
mm.		825.5	146.1	469.9	552.5	406.4	311.2	12.7		66.5	63.5	704.9							
in.	18"	36.00	6.38	21.00	23.50	18.00	12.88	1/2	16	2.88	2 3/4	30.50							
mm.		914.4	162.1	533.4	596.9	457.2	327.2	12.7		73.2	69.9	774.7							
in.	20"	38.75	7.00	23.00	25.25	20.00	14.00	1/2	16	3.12	3	32.75							
mm.		984.3	177.8	584.2	641.4	508.0	355.6	12.7		79.2	76.2	831.9							
in.	24"	46.00	8.00	27.25	30.00	24.00	16.00	1/2	16	3.62	3 1/2	39.00							
mm.		1168.4	203.2	692.2	762.0	609.6	406.4	12.7		91.9	88.9	990.6							

Texas Flange 877-610-8924

Welding Neck Orifice Class 2500

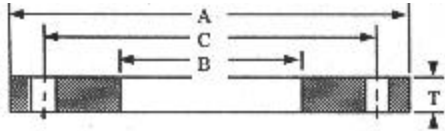


															Ring Type Joint			
Nominal size		Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam of hub at base	Diam. of hub at point of welding	Length thru hub	Diam. of pressure conection	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle	Groove number	Pitch diam.	Groove depth	Groove widht	Rad at bott.	Spec. oval R. H.
		O	C	R	X	A	Y	TT						P	E	F	r max.	W
in.	1"	6.25	1.50	2.00	2.25	1.32	3.62	1/4	4	1.00	7/8	4.25	R18	2.375	0.250	0.344	0.03	1.00
mm.		158.8	38.1	50.8	57.2	33.5	91.9	6.4		25.4	22.2	108.0		60.325	6.350	8.738	0.8	25.4
in.	1 1/2"	8.00	1.75	2.88	3.12	1.90	4.38	1/4	4	1.25	1 1/8	5.75	R23	3.250	0.312	0.469	0.03	1.06
mm.		203.2	44.5	73.2	79.2	48.3	111.3	6.4		31.8	28.6	146.1		82.550	7.925	11.913	0.8	26.9
in.	2"	9.25	2.00	3.62	3.75	2.38	5.00	1/4	8	1.12	1	6.75	R26	4.000	0.312	0.469	0.03	1.06
mm.		235.0	50.8	91.9	95.3	60.5	127.0	6.4		28.4	25.4	171.5		101.600	7.925	11.913	0.8	26.9
in.	2 1/2"	10.50	2.25	4.12	4.50	2.88	5.62	1/4	8	1.25	1 1/8	7.75	R28	4.375	0.375	0.531	0.06	1.19
mm.		266.7	57.2	104.6	114.3	73.2	142.7	6.4		31.8	28.6	196.9		111.125	9.525	13.487	1.5	30.2
in.	3"	12.00	2.62	5.00	5.25	3.50	6.62	3/8	8	1.38	1 1/4	9.00	R32	5.000	0.375	0.531	0.06	1.19
mm.		304.8	66.5	127.0	133.4	88.9	168.1	9.5		35.1	31.8	228.6		127.000	9.525	13.487	1.5	30.2
in.	4"	14.00	3.00	6.19	6.50	4.50	7.50	1/2	8	1.62	1 1/2	10.75						
mm.		355.6	76.2	157.2	165.1	114.3	190.5	12.7		41.1	38.1	273.1						
in.	6"	19.00	4.25	8.50	9.25	6.63	10.75	1/2	8	2.12	2	14.50						
mm.		482.6	108.0	215.9	235.0	168.4	273.1	12.7		53.8	50.8	368.3						
in.	8"	21.75	5.00	10.62	12.00	8.63	12.50	1/2	12	2.12	2	17.25						
mm.		552.5	127.0	269.7	304.8	219.2	317.5	12.7		53.8	50.8	438.2						
in.	10"	26.50	6.50	12.75	14.75	10.75	16.50	1/2	12	2.62	2 1/2	21.25						
mm.		673.1	165.1	323.9	374.7	273.1	419.1	12.7		66.5	63.5	539.8						
in.	12"	30.00	7.25	15.00	17.38	12.75	18.25	1/2	12	2.88	2 3/4	24.38						
mm.		762.0	184.2	381.0	441.5	323.9	463.6	12.7		73.2	69.9	619.3						

Texas Flange 877-610-8924

Formally Table 1 Class B

Table 2 Class B (Blinds from table 7)



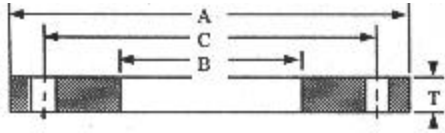
AWWA standard steel-ring flanges, Class B* (86 psi)

Nominal Pipe Size	OD of Flange	ID of Flange	Thickness of Flange (T)		Drilling Template			Weights	
			Slip-On	Blind	Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	Slip-on	Blind
4	9.00	4.57	0.625	0.625	8	0.750	7.50	8	11
5	10.00	5.66	0.625	0.625	8	0.875	8.50	9	14
6	11.00	6.72	0.688	0.688	8	0.875	9.50	11	19
8	13.50	8.72	0.688	0.688	8	0.875	11.75	15	28
10	16.00	10.88	0.688	0.688	12	1.000	14.25	19	39
12	19.00	12.88	0.688	0.719	12	1.000	17.00	28	58
14	21.00	14.19	0.688	0.791	12	1.125	18.75	34	78
16	23.50	16.19	0.688	0.892	16	1.125	21.25	41	110
18	25.00	18.19	0.688	0.950	16	1.250	22.75	41	132
20	27.50	20.19	0.688	1.040	20	1.250	25.00	49	175
22	29.50	22.19	0.750	1.132	20	1.375	27.25	57	219
24	32.00	24.19	0.750	1.216	20	1.375	29.50	67	277
26	34.25	26.19	0.812	1.307	24	1.375	31.75	80	341
28	36.50	28.19	0.875	1.398	28	1.375	34.00	94	414
30	38.75	30.19	0.875	1.477	28	1.375	36.00	105	493
32	41.75	32.19	0.935	1.581	28	1.625	38.50	132	613
34	43.75	34.19	0.935	1.661	32	1.625	40.50	137	707
36	46.00	36.19	1.000	1.751	32	1.625	42.75	161	824
38	48.75	38.19	1.000	1.853	32	1.625	45.25	185	980
40	50.75	40.19	1.000	1.933	36	1.625	47.25	193	1108
42	53.00	42.19	1.125	2.023	36	1.625	49.50	234	1264
44	55.25	44.19	1.125	2.114	40	1.625	51.75	249	1436
46	57.25	46.19	1.125	2.194	40	1.625	53.75	260	1600
48	59.50	48.19	1.250	2.285	44	1.625	56.00	306	1800
50	61.75	50.19	1.250	2.377	44	1.875	58.25	317	2017
52	64.00	52.19	1.250	2.468	44	1.875	60.50	339	2249
54	66.25	54.19	1.375	2.559	44	1.875	62.75	397	2499
60	73.00	60.19	1.500	2.820	52	1.875	69.25	508	3344
66	80.00	66.19	1.625	3.092	52	1.875	76.00	664	4403
72	86.50	72.19	1.750	3.353	60	1.875	82.50	802	5582
78	93.00	78.19	2.000		64	2.125	89.00	1000	
84	99.75	84.19	2.000		64	2.125	95.50	1145	
90	106.50	90.19	2.250		68	2.438	102.00	1404	
96	113.25	96.19	2.250		68	2.438	108.50	1586	
102	120.00	102.19	2.500		72	2.688	114.50	1912	
108	126.75	108.19	2.500		72	2.688	120.75	2136	
114	133.50	114.19	2.750		76	2.938	126.75	2525	
120	140.25	120.19	2.750		76	2.938	132.75	2795	
126	147.00	126.19	3.000		80	3.188	139.25	3252	
132	153.75	132.19	3.000		80	3.188	145.75	3572	
138	160.50	138.19	3.250		84	3.438	152.00	4101	
144	167.25	144.19	3.250		84	3.438	158.25	4475	

Notes: All dimensions measured in inches. All weights in pounds and are approximate. *Pressure rating at atmospheric temperature is 86 psi. These flanges have the same OD and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges. In sizes 24in. and smaller they also match ANSI/ASME B16.5 150-psi standard for steel flanges.

Formally Table 1 Class D

Table 2 Class D (Blinds from table 7)



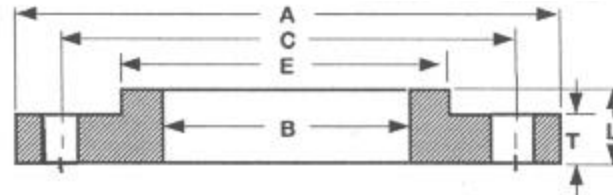
AWWA standard steel-ring flanges, Class D* (175-150psi)

Nominal Pipe Size	OD of Flange	ID of Flange	Thickness of Flange (T)		Drilling Template			Weights	
			Slip-On	Blind	Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle (C)	Slip-on	Blind
4	9.00	4.57	0.625	0.625	8	0.750	7.50	8	11
5	10.00	5.66	0.625	0.650	8	0.875	8.50	9	14
6	11.00	6.72	0.688	0.693	8	0.875	9.50	11	19
8	13.50	8.72	0.688	0.812	8	0.875	11.75	15	33
10	16.00	10.88	0.688	0.953	12	1.000	14.25	19	54
12	19.00	12.88	0.812	1.117	12	1.000	17.00	33	90
14	21.00	14.19	0.933	1.133	12	1.125	18.75	47	111
16	23.50	16.19	1.000	1.265	16	1.125	21.25	60	155
18	25.00	18.19	1.062	1.331	16	1.250	22.75	64	185
20	27.50	20.19	1.125	1.448	20	1.250	25.00	79	244
22	29.50	22.19	1.188	1.568	20	1.375	27.25	90	304
24	32.00	24.19	1.250	1.661	20	1.375	29.50	112	378
26	34.25	26.19	1.312	1.786	24	1.375	31.75	129	466
28	36.50	28.19	1.312	1.906	28	1.375	34.00	141	565
30	38.75	30.19	1.375	2.008	28	1.375	36.00	164	671
32	41.75	32.19	1.500	2.150	28	1.625	38.50	211	834
34	43.75	34.19	1.500	2.252	32	1.625	40.50	220	959
36	46.00	36.19	1.625	2.370	32	1.625	42.75	261	1116
38	48.75	38.19	1.625	2.506	32	1.625	45.25	301	1325
40	50.75	40.19	1.625	2.509	36	1.625	47.25	313	1438
42	53.00	42.19	1.750	2.729	36	1.625	49.50	364	1706
44	55.25	44.19	1.750	2.849	40	1.625	51.75	387	1935
46	57.25	46.19	1.750	2.952	40	1.625	53.75	404	2153
48	59.50	48.19	1.875	3.072	44	1.625	56.00	460	2420
50	61.75	50.19	2.000	3.196	44	1.875	58.25	507	2712
52	64.00	52.19	2.000	3.315	44	1.875	60.50	542	3021
54	66.25	54.19	2.125	3.435	44	1.875	62.75	614	3355
60	73.00	60.19	2.250	3.779	52	1.875	69.25	763	4481
66	80.00	66.19	2.500	4.136	52	1.875	76.00	1021	5890
72	86.50	72.19	2.625	4.480	60	1.875	82.50	1203	7458
78	93.00	78.19	2.750		64	2.125	89.00	1374	
84	99.75	84.19	2.875		64	2.125	95.50	1646	
90	106.50	90.19	3.000		68	2.438	102.00	1872	
96	113.25	96.19	3.250		68	2.438	108.50	2291	
102	120.00	102.19	3.250		72	2.688	114.50	2485	
108	126.75	108.19	3.375		72	2.688	120.75	2884	
114	133.50	114.19	3.500		76	2.938	126.75	3214	
120	140.25	120.19	3.500		76	2.938	132.75	3558	
126	147.00	126.19	3.750		80	3.188	139.25	4065	
132	153.75	132.19	3.875		80	3.188	145.75	4614	
138	160.50	138.19	4.000		84	3.438	152.00	5047	
144	167.25	144.19	4.125		84	3.438	158.25	5680	

Notes: All dimensions measured in inches. All weights are in pounds and are approximate. *Pressure rating at atmospheric temperature: sizes 4-12 in. inclusive, 175 psi; sizes larger than 12 in., 150 psi. These flanges have the same OD and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges. In sizes 24in. and smaller they also match ANSI/ASME B16.5 150-psi standard for steel flanges.

Formally Table 2 Class 3

Table 3 Class D (C-207-94)



AWWA standard steel-hub flanges, Class D* (175-150 psi)

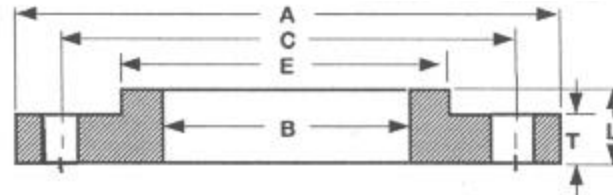
Nom Pipe Size						Drilling Template			Weight
	OD of Flange	ID of Flange	Thickness of Flange	Overall Thickness	Diam. Of Hub	Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	
	(A)	(B)	(T)	(L)	(E)			(C)	
4	9.00	4.57	0.500	0.875	5.312	8	0.750	7.50	7
5	10.00	5.66	0.562	1.250	6.312	8	0.875	8.50	9
6	11.00	6.72	0.562	1.250	7.562	8	0.875	9.50	11
8	13.50	8.72	0.562	1.250	9.688	8	0.875	11.75	15
10	16.00	10.88	0.688	1.250	12.000	12	1.000	14.25	22
12	19.00	12.88	0.688	1.250	14.375	12	1.000	17.00	33
14	21.00	14.19	0.750	1.250	15.750	12	1.125	18.75	43
16	23.50	16.19	0.750	1.250	18.000	16	1.125	21.25	52
18	25.00	18.19	0.750	1.250	19.875	16	1.250	22.75	52
20	27.50	20.19	0.750	1.250	22.000	20	1.250	25.00	61
22	29.50	22.19	1.000	1.750	24.250	20	1.375	27.25	92
24	32.00	24.19	1.000	1.750	26.125	20	1.375	29.50	105
26	34.25	26.19	1.000	1.750	28.500	24	1.375	31.75	119
28	36.50	28.19	1.000	1.750	30.500	28	1.375	34.00	130
30	38.75	30.19	1.000	1.750	32.500	28	1.375	36.00	144
32	41.75	32.19	1.125	1.750	34.750	28	1.625	38.50	182
34	43.75	34.19	1.125	1.750	36.750	32	1.625	40.50	191
36	46.00	36.19	1.125	1.750	38.750	32	1.625	42.75	207
38	48.75	38.19	1.125	1.750	40.750	32	1.625	45.25	237
40	50.75	40.19	1.125	1.750	43.000	36	1.625	47.25	249
42	53.00	42.19	1.250	1.750	45.000	36	1.625	49.50	287
44	55.25	44.19	1.250	2.250	47.000	40	1.625	51.75	334
46	57.25	46.19	1.250	2.250	49.000	40	1.625	53.75	348
48	59.50	48.19	1.375	2.500	51.000	44	1.625	56.00	407
50	61.75	50.19	1.375	2.500	53.000	44	1.875	58.25	421
52	64.00	52.19	1.375	2.500	55.000	44	1.875	60.50	448
54	66.25	54.19	1.375	2.500	57.000	44	1.875	62.75	475
60	73.00	60.19	1.500	2.750	63.000	52	1.875	69.25	605
66	80.00	66.19	1.500	2.750	69.000	52	1.875	76.00	718
72	86.50	72.19	1.500	2.750	75.000	60	1.875	82.50	803
78	93.00	78.19	1.750	3.000	81.250	64	2.125	89.00	1010
84	99.75	84.19	1.750	3.000	87.500	64	2.125	95.50	1160
90	106.50	90.19	2.000	3.250	93.750	68	2.438	102.00	1430
96	113.25	96.19	2.000	3.250	100.000	68	2.438	108.50	1618

Notes: All dimensions measured in inches. All weights in pounds and are approximate. Hub flanges are to be used on pipe that has an OD equal to the nominal pipe size in the first column. *Pressure rating at atmospheric temperature: sizes 4-12 in. inclusive, 175 psi; sizes larger than 12 in., 150 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges. In sizes 24in. and smaller they also match ANSI/ASME B16.5 150-psi standard for steel flanges.

Texas Flange 877-610-8924

Formally Table 3 Class E

Table 4 Class E (C-207-94)

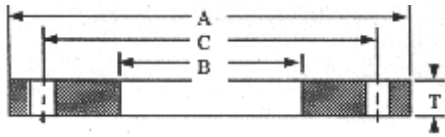


AWWA standard steel-hub flanges, Class E* (275psi)

Nom Pipe Size						Drilling Template			Weight
	OD of Flange	ID of Flange	Thickness of Flange	Overall Thickness	Diam. Of Hub	Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	
	(A)	(B)	(T)	(L)	(E)			(C)	
4	9.00	4.57	0.938	1.312	5.312	8	0.750	7.50	13
5	10.00	5.66	0.938	1.438	6.438	8	0.875	8.50	14
6	11.00	6.72	1.000	1.562	7.562	8	0.875	9.50	17
8	13.50	8.72	1.125	1.750	9.688	8	0.875	11.75	28
10	16.00	10.88	1.188	1.938	12.000	12	1.000	14.25	37
12	19.00	12.88	1.250	2.188	14.375	12	1.000	17.00	59
14	21.00	14.19	1.375	2.250	15.750	12	1.125	18.75	78
16	23.50	16.19	1.438	2.500	18.000	16	1.125	21.25	101
18	25.00	18.19	1.562	2.688	19.875	16	1.250	22.75	110
20	27.50	20.19	1.688	2.875	22.000	20	1.250	25.00	139
22	29.50	22.19	1.812	3.125	24.000	20	1.375	27.25	162
24	32.00	24.19	1.875	3.250	26.125	20	1.375	29.50	197
26	34.25	26.19	2.000	3.375	28.500	24	1.375	31.75	235
28	36.50	28.19	2.062	3.438	30.750	28	1.375	34.00	269
30	38.75	30.19	2.125	3.500	32.750	28	1.375	36.00	303
32	41.75	32.19	2.250	3.625	35.000	28	1.625	38.50	375
34	43.75	34.19	2.312	3.688	37.000	32	1.625	40.50	401
36	46.00	36.19	2.375	3.750	39.250	32	1.625	42.75	452
38	48.75	38.19	2.375	3.750	41.750	32	1.625	45.25	528
40	50.75	40.19	2.500	3.875	43.750	36	1.625	47.25	573
42	53.00	42.19	2.625	4.000	46.000	36	1.625	49.50	648
44	55.25	44.19	2.625	4.000	48.000	40	1.625	51.75	688
46	57.25	46.19	2.688	4.062	50.000	40	1.625	53.75	733
48	59.50	48.19	2.750	4.125	52.250	44	1.625	56.00	799
50	61.75	50.19	2.750	4.125	54.250	44	1.875	58.25	827
52	64.00	52.19	2.875	4.250	56.500	44	1.875	60.50	922
54	66.25	54.19	3.000	4.375	58.750	44	1.875	62.75	1024
60	73.00	60.19	3.125	4.500	65.250	52	1.875	69.25	1253
66	80.00	66.19	3.375	4.875	71.500	52	1.875	76.00	1623
72	86.50	72.19	3.500	5.000	78.500	60	1.875	82.50	1922
78	93.00	78.19	3.875	5.375	84.500	64	2.125	89.00	2279
84	99.75	84.19	3.875	5.375	90.500	64	2.125	95.50	2586
90	106.50	90.19	4.250	5.750	96.750	68	2.438	102.00	3061
96	113.25	96.19	4.250	5.750	102.750	68	2.438	108.50	3432

Notes: All dimensions measured in inches. All weights in pounds and are approximate. Hub flanges are to be used on pipe that has an OD equal to the nominal pipe size in the first column. *Pressure rating at atmospheric temperature is 275 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges. In sizes 24in. and smaller they also match ANSI/ASME B16.5 150-psi standard for steel flanges. The thickness of a 150-psi flange from which the raised face has been removed shall be no less than dimension T minus 0.06 in.

Formally Table 4 Class E



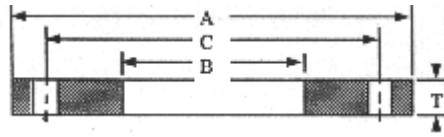
AWWA standard steel-ring flanges, Class E* (275psi)

Table 5 Class E (Blinds from table 7) (C-207-94)

					Drilling Template				
Nominal Pipe Size	OD of Flange	ID of Flange	Thickness of Flange (T)		Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	Weights	
	(A)	(B)	Slip-On	Blind			(C)	Slip-on	Blind
4	9.00	4.57	1.125	1.125	8	0.750	7.50	14	20
5	10.00	5.66	1.188	1.188	8	0.875	8.50	16	26
6	11.00	6.72	1.313	1.313	8	0.875	9.50	20	35
8	13.50	8.72	1.500	1.500	8	0.875	11.75	33	61
10	16.00	10.88	1.563	1.563	12	1.000	14.25	44	89
12	19.00	12.88	1.750	1.750	12	1.000	17.00	71	141
14	21.00	14.19	1.875	1.875	12	1.125	18.75	94	184
16	23.50	16.19	2.000	2.000	16	1.125	21.25	120	246
18	25.00	18.19	2.125	2.125	16	1.250	22.75	127	296
20	27.50	20.19	2.375	2.375	20	1.250	25.00	168	400
22	29.50	22.19	2.500	2.500	20	1.375	27.25	189	484
24	32.00	24.19	2.625	2.625	20	1.375	29.50	234	598
26	34.25	26.19	2.750	2.750	24	1.375	31.75	270	718
28	36.50	28.19	2.750	2.750	28	1.375	34.00	297	815
30	38.75	30.19	2.875	2.875	28	1.375	36.00	344	961
32	41.75	32.19	3.000	3.00	28	1.625	38.50	422	1163
34	43.75	34.19	3.000	3.050	32	1.625	40.50	441	1299
36	46.00	36.19	3.125	3.209	32	1.625	42.75	502	1511
38	48.75	38.19	3.125	3.394	32	1.625	45.25	580	1795
40	50.75	40.19	3.250	3.533	36	1.625	47.25	626	2025
42	53.00	42.19	3.375	3.695	36	1.625	49.50	701	2309
44	55.25	44.19	3.375	3.997	40	1.625	51.75	747	2715
46	57.25	46.19	3.438	3.857	40	1.625	53.75	794	2813
48	59.50	48.19	3.500	4.159	44	1.625	56.00	858	3276
50	61.75	50.19	3.500	4.327	44	1.875	58.25	887	3671
52	64.00	52.19	3.625	4.489	44	1.875	60.50	982	4091
54	66.25	54.19	3.750	4.651	44	1.875	62.75	1083	4542
60	73.00	60.19	3.875	5.116	52	1.875	69.25	1313	6066
66	80.00	66.19	4.250	5.601	52	1.875	76.00	1736	7976
72	86.50	72.19	4.375	6.066	60	1.875	82.50	2005	10099
78	93.00	78.19	4.750		64	2.125	89.00	2374	
84	99.75	84.19	4.750		64	2.125	95.50	2719	
90	106.50	90.19	5.125		68	2.438	102.00	3197	
96	113.25	96.19	5.125		68	2.438	108.50	3613	
102	120.00	102.19	5.500		72	2.688	114.50	4206	
108	126.75	108.19	5.500		72	2.688	120.75	4700	
114	133.50	114.19	5.875		76	2.938	126.75	5395	
120	140.25	120.19	5.875		76	2.938	132.75	5972	
126	147.00	126.19	6.250		80	3.188	139.25	6775	
132	153.75	132.19	6.250		80	3.188	145.75	7442	
138	160.50	138.19	6.750		84	3.438	152.00	8517	
144	167.25	144.19	6.750		84	3.438	158.25	9295	

Notes: All dimensions measured in inches. All weights in pounds and are approximate. *Pressure rating at atmospheric temperature is 275 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 125 cast-iron flanges. In sizes 24in. and smaller they also match ANSI/ASME B16.5 150-psi standard for steel flanges.

Formally Table 5 Class F



AWWA standard steel-ring flanges, Class F* (300psi)

Table 6 Class F (Blinds from table 7) (C-207-94)

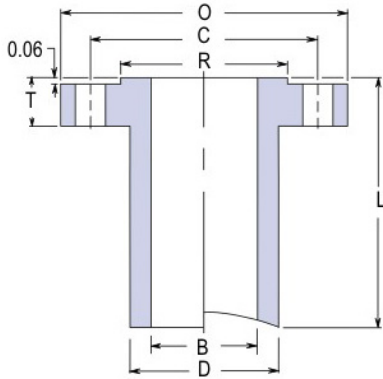
Nominal Pipe Size	OD of Flange	ID of Flange	Thickness of Flange (T)		Drilling Template			Weights	
					Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle		
	(A)	(B)	Slip-On	Blind			(C)	Slip-on	Blind
4	10.00	4.57	1.13	1.130	8	0.875	7.88	18	25
5	11.00	5.66	1.21	1.210	8	0.875	9.25	22	33
6	12.50	6.73	1.31	1.310	12	0.875	10.62	30	46
8	15.00	8.73	1.31	1.310	12	1.000	13.00	40	66
10	17.50	10.88	1.50	1.500	16	1.125	15.25	56	102
12	20.50	12.88	1.63	1.630	16	1.250	17.75	83	152
14	23.00	14.19	1.94	1.940	20	1.250	20.25	128	228
16	25.50	16.19	2.14	2.140	20	1.375	22.50	167	310
18	28.00	18.19	2.25	2.250	24	1.375	24.75	204	392
20	30.50	20.19	2.33	2.330	24	1.375	27.00	247	482
22	33.00	22.19	2.50	2.50	24	1.375	29.25	307	606
24	36.00	24.19	2.69	2.690	24	1.625	32.00	388	776
26	38.25	26.25	3.00	3.000	28	1.875	34.50	451	977
28	40.75	28.25	3.13	3.130	28	1.875	37.00	532	1156
30	43.00	30.25	3.15	3.166	28	1.875	39.25	586	1303
32	45.25	32.25	3.25	3.332	28	1.875	41.50	657	1518
34	47.50	34.25	3.38	3.475	28	1.875	43.50	741	1745
36	50.00	36.25	3.46	3.671	32	2.125	46.00	802	2042
38	52.25	38.25	3.50	3.815	32	2.125	48.00	874	2317
40	54.25	40.25	3.63	3.982	36	2.125	50.25	937	2608
42	57.00	42.25	3.81	4.171	36	2.125	52.75	1103	3015
44	59.25	44.25	4.00	4.338	36	2.125	55.00	1237	3388
46	61.50	46.25	4.13	4.505	40	2.125	57.25	1344	3791
48	65.00	48.25	4.50	4.781	40	2.125	60.75	1718	4494

Notes: All dimensions measured in inches. All weights in pounds and are approximate.

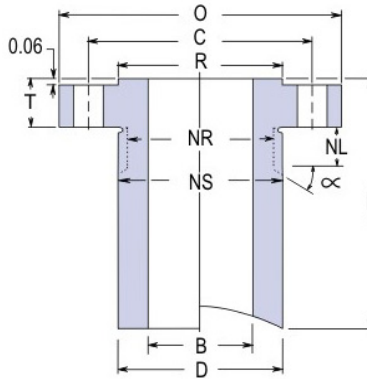
*Pressure rating at atmospheric temperature is 300 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 250 cast iron pipe and flanged fittings.

Texas Flange 877-610-8924

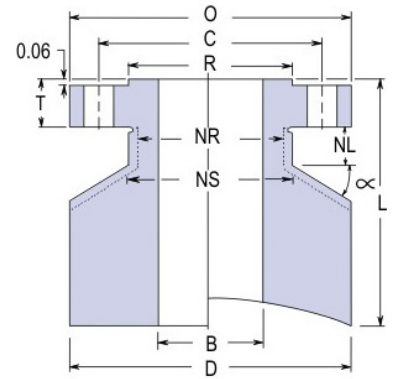
Class 150 - standard connection specifications



LONG WELD NECK "LWN"



HEAVY BARREL "HB"

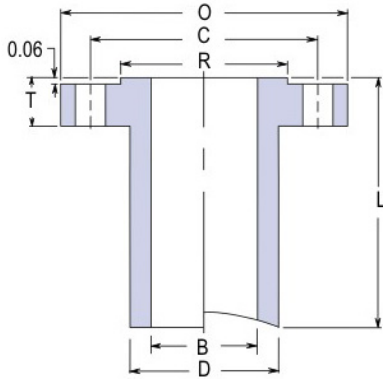


EQUAL BARREL "E"

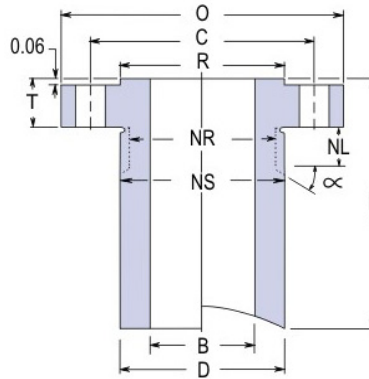
Size			Flange			Barrel OD			Bolting			Nut			Stud Bolt			Weights						Length
Nom	Bore LWN & E	Bore HB	OD	Thk.	RF OD	LWN	HB	E	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	LWN		HB		E		Base
	B	B	O	T	R	D	D	D			C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L
1/2	0.50	0.55	3.50	0.44	1.38	1.25	1.50	3.50	4	0.62	2.38	1.50	1.25	0.75	1/2	2 1/4	2 3/4	3	0.3	5	0.4	21	2.7	9
3/4	0.75	0.74	3.88	0.50	1.69	1.62	1.88	3.88	4	0.62	2.75	1.88	1.62	0.75	1/2	2 1/2	3	5	0.5	7	0.7	27	3.2	9
1	1.00	0.96	4.25	0.56	2.00	2.00	2.25	4.25	4	0.62	3.12	2.25	2.00	0.75	1/2	2 1/2	3	7	0.7	10	0.9	30	3.8	9
1 1/4	1.25	1.28	4.62	0.62	2.50	2.38	2.62	4.62	4	0.62	3.50	2.62	2.38	0.75	1/2	2 3/4	3 1/4	10	0.9	12	1.2	36	4.4	9
1 1/2	1.50	1.50	5.00	0.69	2.88	2.62	3.00	5.00	4	0.62	3.88	3.00	2.62	0.75	1/2	2 3/4	3 1/4	12	1.0	16	1.5	41	5.1	9
2	2.00	1.94	6.00	0.75	3.62	3.06	3.69	6.00	4	0.75	4.75	3.69	3.06	0.88	5/8	3 1/4	3 3/4	15	1.2	23	2.2	57	7.1	9
2 1/2	2.50	2.32	7.00	0.88	4.12	3.75	4.44	7.00	4	0.75	5.50	4.44	3.75	0.88	5/8	3 1/2	4	22	1.7	34	3.2	79	10	9
3	3.00	2.90	7.50	0.94	5.00	4.25	4.94	7.50	4	0.75	6.00	4.94	4.25	0.88	5/8	3 1/2	4 1/4	25	2.0	38	3.6	86	11	9
3 1/2	3.50	3.36	8.50	0.94	5.50	4.88	5.94	8.50	8	0.75	7.00	5.94	4.88	0.88	5/8	3 1/2	4 1/4	32	2.6	55	5.3	110	13	9
4	4.00	3.83	9.00	0.94	6.19	5.50	6.44	9.00	8	0.75	7.50	6.44	5.50	0.88	5/8	3 1/2	4 1/4	47	3.2	78	6.0	164	14	12
5	5.00	4.81	10.00	0.94	7.31	6.50	7.25	10.00	8	0.88	8.50	7.25	6.50	1.00	3/4	3 3/4	4 1/2	57	3.8	87	6.5	189	17	12
6	6.00	5.76	11.00	1.00	8.50	7.75	8.25	11.00	8	0.88	9.50	8.25	7.75	1.00	3/4	4	4 1/2	75	5.4	103	7.8	216	19	12
8	8.00	7.62	13.50	1.12	10.62	9.75	10.50	13.50	8	0.88	11.75	10.50	9.75	1.00	3/4	4 1/4	4 3/4	102	6.9	157	11	292	26	12
10	10.00	9.56	16.00	1.19	12.75	12.00	12.81	16.00	12	1.00	14.25	12.81	12.00	1.12	7/8	4 3/4	5 1/4	143	9.8	214	16	382	35	12
12	12.00	11.38	19.00	1.25	15.00	14.38	15.56	19.00	12	1.00	17.00	15.56	14.38	1.12	7/8	4 3/4	5 1/2	205	14	329	25	535	48	12
14	14.00	14.00	21.00	1.38	16.25	16.00	17.12	21.00	12	1.12	18.75	17.12	16.00	1.25	1	5 1/4	6	211	13	296	22	585	55	12
16	16.00	16.00	23.50	1.44	18.50	18.00	19.62	23.50	16	1.12	21.25	19.62	18.00	1.25	1	5 1/2	6	246	15	388	29	714	66	12
18	18.00	18.00	25.00	1.56	21.00	20.00	20.94	25.00	16	1.25	22.75	20.94	20.00	1.38	1 1/8	6	6 1/2	270	17	362	25	711	67	12
20	20.00	20.00	27.50	1.69	23.00	22.00	23.19	27.50	20	1.25	25.00	23.19	22.00	1.38	1 1/8	6 1/4	7	311	19	434	31	840	79	12
24	24.00	24.00	32.00	1.88	27.25	26.25	27.50	32.00	20	1.38	29.50	27.50	26.25	1.50	1 1/4	7	7 3/4	423	25	574	40	1046	100	12

Texas Flange 877-610-8924

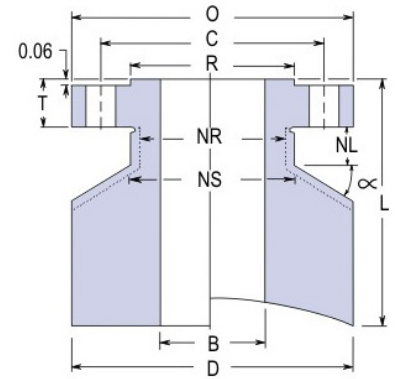
Class 300 - standard connection specifications



LONG WELD NECK "LWN"



HEAVY BARREL "HB"

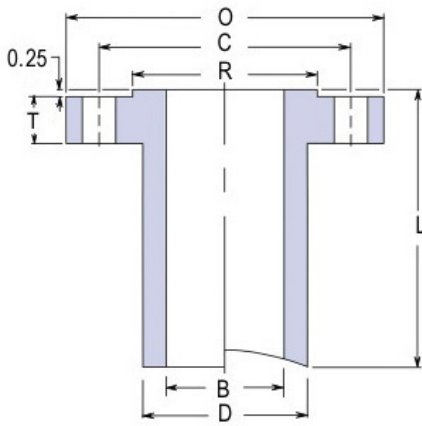


EQUAL BARREL "E"

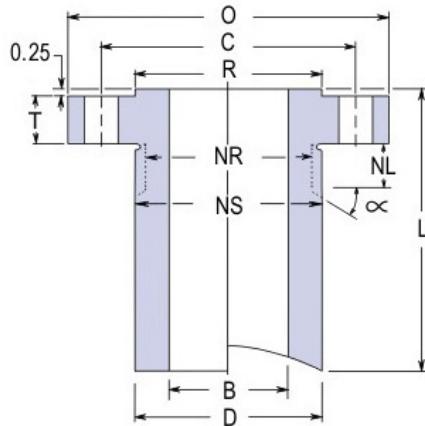
Size			Flange			Barrel OD			Bolting			Nut			Stud Bolt			Weights						Length
Nom	Bore LWN & E	Bore HB	OD	Thk.	RF OD	LWN	HB	E	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	LWN		HB		E		Base
	B	B	O	T	R	D	D	D			C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L
1/2	0.50	0.55	3.75	0.56	1.38	1.50	1.75	3.75	4	0.62	2.62	1.75	1.50	0.75	1/2	2 1/2	3	5	0.4	7	0.6	24	3.1	9
3/4	0.75	0.74	4.62	0.62	1.69	1.88	2.19	4.62	4	0.75	3.25	2.19	1.88	0.88	5/8	3	3 1/2	9	0.7	11	0.9	37	4.6	9
1	1.00	0.96	4.88	0.69	2.00	2.12	2.44	4.88	4	0.75	3.50	2.44	2.12	0.88	5/8	3 1/4	3 1/2	9	0.8	12	1.1	40	5.1	9
1 1/4	1.25	1.28	5.25	0.75	2.50	2.50	2.81	5.25	4	0.75	3.88	2.81	2.50	0.88	5/8	3 1/4	3 3/4	13	1.0	15	1.4	45	5.8	9
1 1/2	1.50	1.50	6.12	0.81	2.88	2.75	3.25	6.12	4	0.88	4.50	3.25	2.75	1.00	3/4	3 1/2	4	15	1.2	21	1.9	61	7.8	9
2	2.00	1.94	6.50	0.88	3.62	3.31	3.94	6.50	8	0.75	5.00	3.94	3.31	0.88	5/8	3 1/2	4 1/4	20	1.5	28	2.6	68	8.5	9
2 1/2	2.50	2.32	7.50	1.00	4.12	3.94	4.62	7.50	8	0.88	5.88	4.62	3.94	1.00	3/4	4	4 1/2	25	2.1	38	3.6	89	11	9
3	3.00	2.90	8.25	1.12	5.00	4.62	5.38	8.25	8	0.88	6.62	5.38	4.62	1.00	3/4	4 1/4	5	35	2.7	49	4.6	106	13	9
3 1/2	3.50	3.36	9.00	1.19	5.50	5.25	6.00	9.00	8	0.88	7.25	6.00	5.25	1.00	3/4	4 1/4	5	42	3.4	59	5.5	122	15	9
4	4.00	3.83	10.00	1.25	6.19	5.75	6.62	10.00	8	0.88	7.88	6.62	5.75	1.00	3/4	4 1/2	5 1/4	62	3.8	91	6.5	207	19	12
5	5.00	4.81	11.00	1.38	7.31	7.00	8.00	11.00	8	0.88	9.25	8.00	7.00	1.00	3/4	4 3/4	5 1/4	84	5.3	124	9.1	241	21	12
6	6.00	5.76	12.50	1.44	8.50	8.12	9.38	12.50	12	0.88	10.62	9.38	8.12	1.00	3/4	4 3/4	5 3/4	105	6.7	165	12	303	27	12
8	8.00	7.62	15.00	1.62	10.62	10.25	11.56	15.00	12	1.00	13.00	11.56	10.25	1.12	7/8	5 1/2	6 1/4	148	9.1	228	17	405	36	12
10	10.00	9.56	17.50	1.88	12.75	12.62	13.62	17.50	16	1.12	15.25	13.62	12.62	1.25	1	6 1/4	7 1/4	210	13	291	21	499	46	12
12	12.00	11.38	20.50	2.00	15.00	14.75	15.94	20.50	16	1.25	17.75	15.94	14.75	1.38	1 1/8	6 3/4	7 1/2	275	16	392	28	651	61	12
14	14.00	14.00	23.00	2.12	16.25	16.75	18.44	23.00	20	1.25	20.25	18.44	16.75	1.38	1 1/8	7	7 3/4	324	19	456	32	785	74	12
16	16.00	16.00	25.50	2.25	18.50	19.00	20.50	25.50	20	1.38	22.50	20.50	19.00	1.50	1 1/4	7 1/2	8 1/2	404	23	529	37	914	88	12
18	18.00	18.00	28.00	2.38	21.00	21.00	22.75	28.00	24	1.38	24.75	22.75	21.00	1.50	1 1/4	7 3/4	8 1/4	465	26	630	43	1066	102	12
20	20.00	20.00	30.50	2.50	23.00	23.12	25.00	30.50	24	1.38	27.00	25.00	23.12	1.50	1 1/4	8 1/4	9 1/4	549	30	741	50	1228	118	12
24	24.00	24.00	36.00	2.75	27.25	27.62	29.62	36.00	24	1.62	32.00	29.62	27.62	1.75	1 1/2	9 1/4	10 1/4	778	42	1016	67	1627	160	12

Texas Flange 877-610-8924

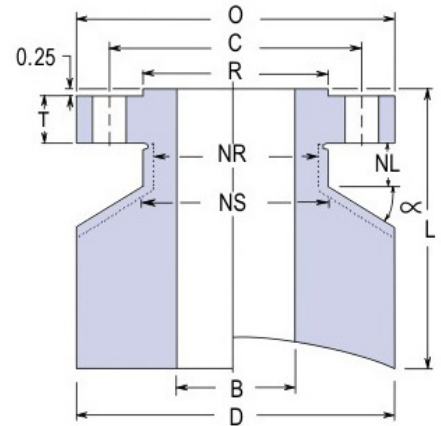
Class 400 - standard connection specifications



LONG WELD NECK "LWN"



HEAVY BARREL "HB"

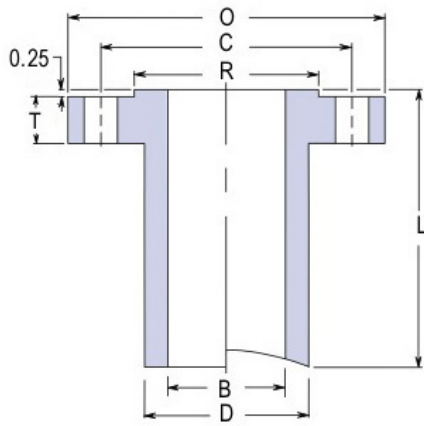


EQUAL BARREL "E"

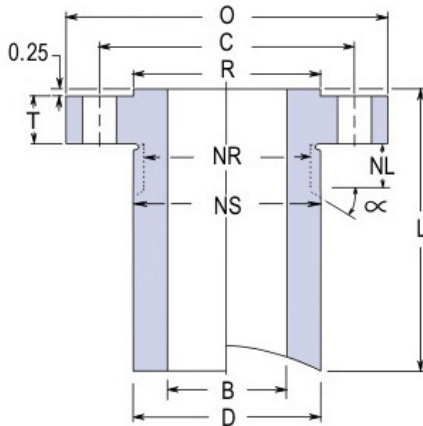
Size			Flange			Barrel OD			Bolting			Nut			Stud Bolt			Weights						Length
Nom	Bore LWN & E	Bore HB	OD	Thk.	RF OD	LWN	HB	E	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	LWN		HB		E		Base
	B	B	O	T	R	D	D	D			C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L
1/2	0.50	0.55	3.75	0.56	1.38	1.50	1.75	3.75	4	0.62	2.62	1.75	1.50	0.75	1/2	3	3	5	0.4	7	0.6	24	3.1	9
3/4	0.75	0.74	4.62	0.62	1.69	1.88	2.19	4.62	4	0.75	3.25	2.19	1.88	0.88	5/8	3 1/2	3 1/2	8	0.7	11	0.9	37	4.6	9
1	1.00	0.96	4.88	0.69	2.00	2.12	2.44	4.88	4	0.75	3.50	2.44	2.12	0.88	5/8	3 1/2	3 1/2	9	0.8	12	1.1	40	5.1	9
1 1/4	1.25	1.28	5.25	0.81	2.50	2.50	2.81	5.25	4	0.75	3.88	2.81	2.50	0.88	5/8	3 3/4	3 3/4	13	1.0	15	1.4	45	5.8	9
1 1/2	1.50	1.50	6.12	0.88	2.88	2.75	3.25	6.12	4	0.88	4.50	3.25	2.75	1.00	3/4	4 1/4	4 1/4	16	1.2	21	1.9	61	7.8	9
2	2.00	1.94	6.50	1.00	3.62	3.31	3.94	6.50	8	0.75	5.00	3.94	3.31	0.88	5/8	4 1/4	4 1/4	20	1.5	29	2.6	68	8.5	9
2 1/2	2.50	2.32	7.50	1.12	4.12	3.94	4.63	7.50	8	0.88	5.88	4.63	3.94	1.00	3/4	4 3/4	4 3/4	27	2.1	39	3.6	88	11	9
3	3.00	2.90	8.25	1.25	5.00	4.62	5.38	8.25	8	0.88	6.62	5.38	4.62	1.00	3/4	5	5	36	2.7	50	4.6	104	13	9
3 1/2	3.50	3.36	9.00	1.38	5.50	5.25	5.81	9.00	8	1.00	7.25	5.81	5.25	1.12	7/8	5 1/2	5 1/2	45	3.4	61	5.5	116	15	9
4	4.00	3.83	10.00	1.38	6.19	5.75	6.44	10.00	8	1.00	7.88	6.44	5.75	1.12	7/8	5 1/2	5 1/2	65	3.8	93	6.5	197	19	12
5	5.00	4.81	11.00	1.50	7.31	7.00	7.81	11.00	8	1.00	9.25	7.81	7.00	1.12	7/8	5 3/4	5 3/4	88	5.3	127	9.1	229	22	12
6	6.00	5.76	12.50	1.62	8.50	8.12	9.19	12.50	12	1.00	10.62	9.19	8.12	1.12	7/8	6	6	110	6.7	169	12	286	27	12
8	8.00	7.62	15.00	1.88	10.62	10.25	11.38	15.00	12	1.12	13.00	11.38	10.25	1.25	1	6 3/4	6 3/4	154	9.1	233	17	379	36	12
10	10.00	9.56	17.50	2.12	12.75	12.62	13.44	17.50	16	1.25	15.25	13.44	12.62	1.38	1 1/8	7 1/2	7 1/2	218	13	298	21	475	46	12
12	12.00	11.38	20.50	2.25	15.00	14.75	15.75	20.50	16	1.38	17.75	15.75	14.75	1.50	1 1/4	8	8	285	16	401	28	627	62	12
14	14.00	14.00	23.00	2.38	16.25	16.75	18.25	23.00	20	1.38	20.25	18.25	16.75	1.50	1 1/4	8 1/4	8 1/4	336	19	467	32	758	74	12
16	16.00	16.00	25.50	2.50	18.50	19.00	20.31	25.50	20	1.50	22.50	20.31	19.00	1.62	1 3/8	8 3/4	8 3/4	418	23	542	37	884	88	12
18	18.00	18.00	28.00	2.62	21.00	21.00	22.56	28.00	24	1.50	24.75	22.56	21.00	1.62	1 3/8	9	9	482	26	645	43	1033	102	12
20	20.00	20.00	30.50	2.75	23.00	23.12	24.63	30.50	24	1.62	27.00	24.63	23.12	1.75	1 1/2	9 1/2	9 3/4	568	30	759	50	1165	118	12
24	24.00	24.00	36.00	3.00	27.25	27.62	29.25	36.00	24	1.88	32.00	29.25	27.62	2.00	1 3/4	10 1/2	11	804	42	1040	67	1540	160	12

Texas Flange 877-610-8924

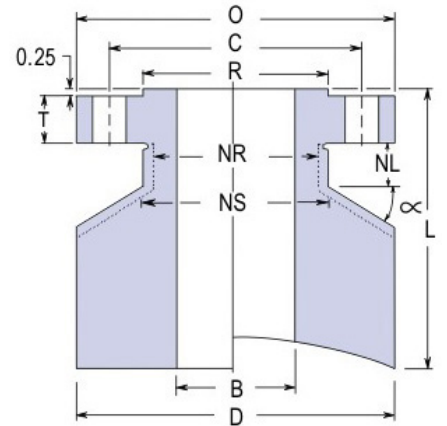
Class 600 - standard connection specifications



LONG WELD NECK "LWN"



HEAVY BARREL "HB"

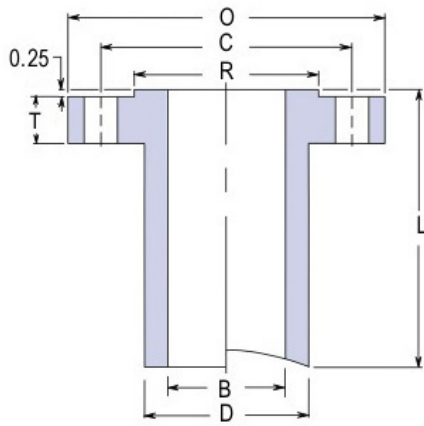


EQUAL BARREL "E"

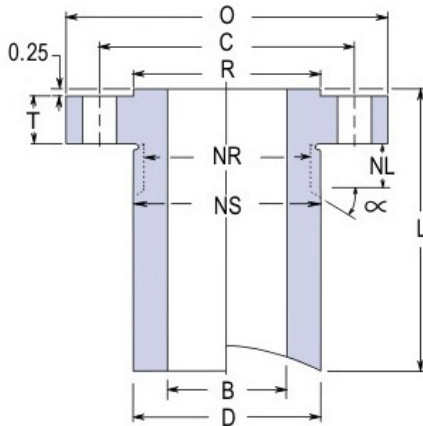
Size			Flange			Barrel OD			Bolting			Nut			Stud Bolt			Weights						Length
Nom	Bore LWN & E	Bore HB	OD	Thk.	RF OD	LWN	HB	E	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	LWN		HB		E		Base
	B	B	O	T	R	D	D	D			C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L
1/2	0.50	0.55	3.75	0.56	1.38	1.50	1.75	3.75	4	0.62	2.62	1.75	1.50	0.75	1/2	3	3	5	0.4	7	0.6	24	3.1	9
3/4	0.75	0.74	4.62	0.62	1.69	1.88	2.19	4.62	4	0.75	3.25	2.19	1.88	0.88	5/8	3 1/2	3 1/2	8	0.7	11	0.9	36	4.6	9
1	1.00	0.96	4.88	0.69	2.00	2.12	2.44	4.88	4	0.75	3.50	2.44	2.12	0.88	5/8	3 1/2	3 1/2	9	0.8	12	1.1	39	5.1	9
1 1/4	1.25	1.28	5.25	0.81	2.50	2.50	2.81	5.25	4	0.75	3.88	2.81	2.50	0.88	5/8	3 3/4	3 3/4	13	1.0	15	1.4	44	5.8	9
1 1/2	1.50	1.50	6.12	0.88	2.88	2.75	3.25	6.12	4	0.88	4.50	3.25	2.75	1.00	3/4	4 1/4	4 1/4	16	1.2	21	1.9	59	7.8	9
2	2.00	1.94	6.50	1.00	3.62	3.31	3.94	6.50	8	0.75	5.00	3.94	3.31	0.88	5/8	4 1/4	4 1/4	20	1.5	29	2.6	67	8.5	9
2 1/2	2.50	2.32	7.50	1.12	4.12	3.94	4.62	7.50	8	0.88	5.88	4.62	3.94	1.00	3/4	5	4 3/4	27	2.1	39	3.6	85	11	9
3	3.00	2.90	8.25	1.25	5.00	4.62	5.38	8.25	8	0.88	6.62	5.38	4.62	1.00	3/4	5	5 1/4	36	2.7	50	4.6	104	13	9
3 1/2	3.50	3.36	9.00	1.38	5.50	5.25	5.81	9.00	8	1.00	7.25	5.81	5.25	1.12	7/8	5 1/2	5 1/2	45	3.4	57	5.0	116	15	9
4	4.00	3.83	10.75	1.50	6.19	6.00	7.06	10.75	8	1.00	8.50	7.06	6.00	1.12	7/8	5 3/4	6	77	4.5	113	7.8	238	22	12
5	5.00	4.81	13.00	1.75	7.31	7.50	8.88	13.00	8	1.12	10.50	8.88	7.50	1.25	1	6 1/2	6 1/2	123	7	180	12	336	32	12
6	6.00	5.76	14.00	1.88	8.50	8.75	9.88	14.00	12	1.12	11.50	9.88	8.75	1.25	1	6 3/4	7	152	9	207	14	373	36	12
8	8.00	7.62	16.50	2.19	10.62	10.75	11.94	16.50	12	1.25	13.75	11.94	10.75	1.38	1 1/8	7 3/4	8	207	11	277	19	478	46	12
10	10.00	9.56	20.00	2.50	12.75	13.50	15.00	20.00	16	1.38	17.00	15.00	13.50	1.50	1 1/4	8 1/2	8 3/4	324	18	433	30	683	67	12
12	12.00	11.38	22.00	2.62	15.00	15.75	17.25	22.00	20	1.38	19.25	17.25	15.75	1.50	1 1/4	8 3/4	9	393	23	533	37	779	76	12
14	14.00	14.00	23.75	2.75	16.25	17.00	18.56	23.75	20	1.50	20.75	18.56	17.00	1.62	1 3/8	9 1/4	9 1/2	471	21	631	33	1149	82	16
16	16.00	16.00	27.00	3.00	18.50	19.50	21.38	27.00	20	1.62	23.75	21.38	19.50	1.75	1 1/2	10	10 1/4	638	28	856	45	1471	105	16
18	18.00	18.00	29.25	3.25	21.00	21.50	23.19	29.25	20	1.75	25.75	23.19	21.50	1.88	1 5/8	10 3/4	11	731	31	941	48	1628	118	16
20	20.00	20.00	32.00	3.50	23.00	24.00	25.94	32.00	24	1.75	28.50	25.94	24.00	1.88	1 5/8	11 1/2	11 3/4	916	39	1180	61	1920	139	16
24	24.00	24.00	37.00	4.00	27.25	28.25	30.06	37.00	24	2.00	33.00	30.06	28.25	2.12	1 7/8	13	13 1/2	1210	49	1486	73	2376	176	16

Texas Flange 877-610-8924

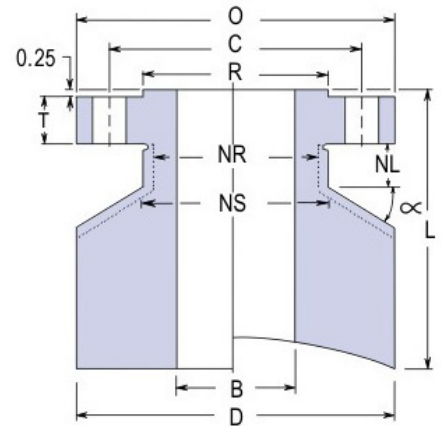
Class 900 - standard connection specifications



LONG WELD NECK "LWN"



HEAVY BARREL "HB"

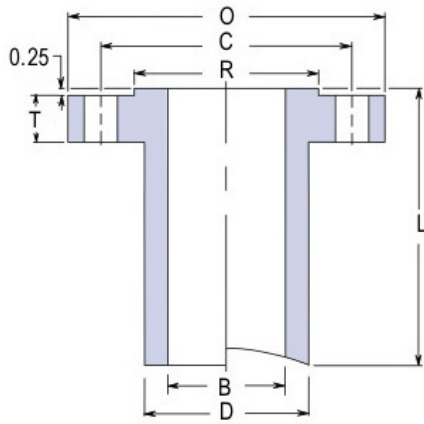


EQUAL BARREL "E"

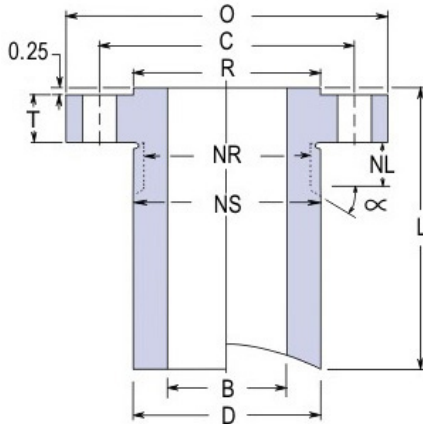
Size			Flange			Barrel OD			Bolting			Nut			Stud Bolt			Weights						Length
Nom	Bore LWN & E	Bore HB	OD	Thk.	RF OD	LWN	HB	E	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	LWN		HB		E		Base
	B	B	O	T	R	D	D	D			C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L
1/2	0.50	0.55	4.75	0.88	1.38	1.56	2.00	4.75	4	0.88	3.25	2.00	1.56	1.00	3/4	4 1/4	4 1/4	8	0.5	10	0.8	37	5.0	9
3/4	0.75	0.74	5.12	1.00	1.69	1.81	2.25	5.12	4	0.88	3.50	2.25	1.81	1.00	3/4	4 1/2	4 1/2	10	0.6	13	1.0	42	5.7	9
1	1.00	0.96	5.88	1.12	2.00	2.12	2.56	5.88	4	1.00	4.00	2.56	2.12	1.12	7/8	5	5	13	0.8	17	1.3	54	7.5	9
1 1/4	1.25	1.28	6.25	1.12	2.50	2.50	2.94	6.25	4	1.00	4.38	2.94	2.50	1.12	7/8	5	5	17	1.0	20	1.6	61	8.3	9
1 1/2	1.50	1.50	7.00	1.25	2.88	2.75	3.25	7.00	4	1.12	4.88	3.25	2.75	1.25	1	5 1/2	5 1/2	21	1.2	26	1.9	77	10	9
2	2.00	1.94	8.50	1.50	3.62	4.12	5.06	8.50	8	1.00	6.50	5.06	4.12	1.12	7/8	5 3/4	5 3/4	42	2.9	56	4.9	115	15	9
2 1/2	2.50	2.32	9.62	1.62	4.12	4.88	5.88	9.62	8	1.12	7.50	5.88	4.88	1.25	1	6 1/4	6 1/4	56	3.9	75	6.5	144	19	9
3	3.00	2.90	9.50	1.50	5.00	5.00	6.06	9.50	8	1.00	7.50	6.06	5.00	1.12	7/8	5 3/4	5 3/4	51	3.6	71	6.3	139	18	9
4	4.00	3.83	11.50	1.75	6.19	6.25	7.44	11.50	8	1.25	9.25	7.44	6.25	1.38	1 1/8	6 3/4	6 3/4	93	5.1	133	9.1	270	26	12
5	5.00	4.81	13.75	2.00	7.31	7.50	9.00	13.75	8	1.38	11.00	9.00	7.50	1.50	1 1/4	7 1/2	7 1/2	135	7	194	13	376	37	12
6	6.00	5.76	15.00	2.19	8.50	9.25	10.69	15.00	12	1.25	12.50	10.69	9.25	1.38	1 1/8	7 1/2	7 3/4	191	11	259	18	436	42	12
8	8.00	7.62	18.50	2.50	10.62	11.75	13.31	18.50	12	1.50	15.50	13.31	11.75	1.62	1 3/8	8 3/4	8 3/4	297	16	389	27	626	62	12
10	10.00	9.56	21.50	2.75	12.75	14.50	16.31	21.50	16	1.50	18.50	16.31	14.50	1.62	1 3/8	9 1/4	9 1/4	422	25	558	39	824	81	12
12	12.00	11.38	24.00	3.12	15.00	16.50	18.81	24.00	20	1.50	21.00	18.81	16.50	1.62	1 3/8	10	10	518	29	715	50	984	96	12
14	14.00	14.00	25.25	3.38	16.25	17.75	19.62	25.25	20	1.62	22.00	19.62	17.75	1.75	1 1/2	10 3/4	11	624	26	817	42	1368	98	16
16	16.00	16.00	27.75	3.50	18.50	20.00	21.69	27.75	20	1.75	24.25	21.69	20.00	1.88	1 5/8	11 1/4	11 1/2	750	32	942	48	1573	114	16
18	18.00	18.00	31.00	4.00	21.00	22.25	24.06	31.00	20	2.00	27.00	24.06	22.25	2.12	1 7/8	12 3/4	13 1/4	950	38	1169	57	1898	142	16
20	20.00	20.00	33.75	4.25	23.00	24.50	26.38	33.75	20	2.12	29.50	26.38	24.50	2.25	2	13 3/4	14 1/4	1121	43	1378	66	2182	164	16
24	24.00	24.00	41.00	5.50	27.25	29.50	31.62	41.00	20	2.62	35.50	31.62	29.50	2.75	2 1/2	17 1/4	18	1865	65	2160	94	3084	246	16

Texas Flange 877-610-8924

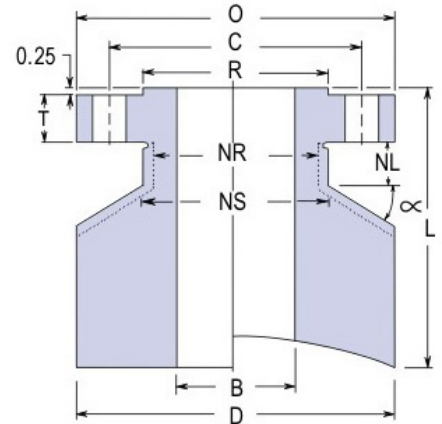
Class 1500 - standard connection specifications



LONG WELD NECK "LWN"



HEAVY BARREL "HB"

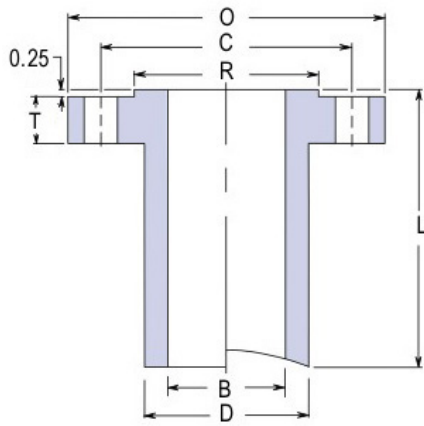


EQUAL BARREL "E"

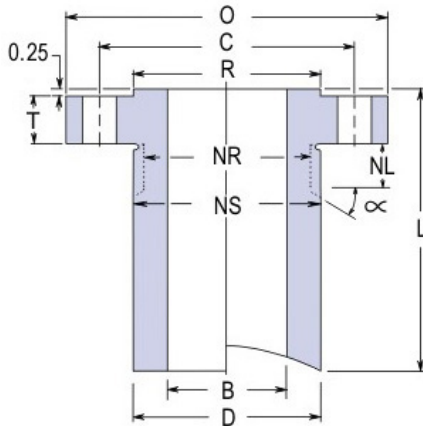
Size			Flange			Barrel OD			Bolting			Nut			Stud Bolt			Weights						Length
Nom	Bore LWN & E	Bore HB	OD	Thk.	RF OD	LWN	HB	E	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	LWN		HB		E		Base
	B	B	O	T	R	D	D	D			C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L
1/2	0.50	0.55	4.75	0.88	1.38	1.56	2.00	4.75	4	0.88	3.25	2.00	1.56	1.00	3/4	4 1/4	4 1/4	8	0.5	10	0.8	37	5.0	9
3/4	0.75	0.74	5.12	1.00	1.69	1.81	2.25	5.12	4	0.88	3.50	2.25	1.81	1.00	3/4	4 1/2	4 1/2	10	0.6	13	1.0	42	5.7	9
1	1.00	0.96	5.88	1.12	2.00	2.12	2.56	5.88	4	1.00	4.00	2.56	2.12	1.12	7/8	5	5	13	0.8	17	1.3	54	7.5	9
1 1/4	1.25	1.28	6.25	1.12	2.50	2.50	2.94	6.25	4	1.00	4.38	2.94	2.50	1.12	7/8	5	5	17	1.0	20	1.6	61	8.3	9
1 1/2	1.50	1.50	7.00	1.25	2.88	2.75	3.25	7.00	4	1.12	4.88	3.25	2.75	1.25	1	5 1/2	5 1/2	21	1.2	26	1.9	77	10	9
2	2.00	1.94	8.50	1.50	3.62	4.12	5.06	8.50	8	1.00	6.50	5.06	4.12	1.12	7/8	5 3/4	5 3/4	42	2.9	56	4.9	115	15	9
2 1/2	2.50	2.32	9.62	1.62	4.12	4.88	5.88	9.62	8	1.12	7.50	5.88	4.88	1.25	1	6 1/4	6 1/4	56	3.9	75	6.5	144	19	9
3	3.00	2.90	10.50	1.88	5.00	5.25	6.19	10.50	8	1.25	8.00	6.19	5.25	1.38	1 1/8	7	7	67	4.1	84	6.7	161	23	9
4	4.00	3.83	12.25	2.12	6.19	6.38	7.50	12.25	8	1.38	9.50	7.50	6.38	1.50	1 1/4	7 3/4	7 3/4	110	5.5	147	9.3	302	30	12
5	5.00	4.81	14.75	2.88	7.31	7.75	9.12	14.75	8	1.62	11.50	9.12	7.75	1.75	1 1/2	9 3/4	9 3/4	181	7.8	233	13	414	43	12
6	6.00	5.76	15.50	3.25	8.50	9.00	10.31	15.50	12	1.50	12.50	10.31	9.00	1.62	1 3/8	10 1/4	10 1/2	215	10	272	16	445	46	12
8	8.00	7.62	19.00	3.62	10.62	11.50	12.94	19.00	12	1.75	15.50	12.94	11.50	1.88	15/8	11 1/2	12 3/4	337	15	417	24	629	67	12
10	10.00	9.56	23.00	4.25	12.75	14.50	16.06	23.00	12	2.00	19.00	16.06	14.50	2.12	1 7/8	13 1/4	13 1/2	546	25	651	37	888	97	12
12	12.00	11.38	26.50	4.88	15.00	17.75	19.38	26.50	16	2.12	22.50	19.38	17.75	2.25	2	14 3/4	15 1/4	946	38	1148	55	1683	127	16
14	14.00	14.00	29.50	5.25	16.25	19.50	21.50	29.50	16	2.38	25.00	21.50	19.50	2.50	2 1/4	16	16 3/4	1116	41	1308	59	1929	150	16
16	16.00	16.00	32.50	5.75	18.50	21.75	23.88	32.50	16	2.62	27.75	23.88	21.75	2.75	2 1/2	17 1/2	18 1/2	1371	48	1588	70	2238	178	16
18	18.00	18.00	36.00	6.38	21.00	23.50	26.25	36.00	16	2.88	30.50	26.25	23.50	3.00	2 3/4	19 1/2	20 3/4	1674	51	1959	81	2629	216	16
20	20.00	20.00	38.75	7.00	23.00	25.25	28.12	38.75	16	3.12	32.75	28.12	25.25	3.25	3	21 1/4	22 1/4	1943	53	2241	87	2868	245	16
24	24.00	24.00	46.00	8.00	27.25	30.00	33.62	46.00	16	3.62	39.00	33.62	30.00	3.75	3 1/2	24 1/4	25 1/2	2936	72	3334	123	3819	343	16

Texas Flange 877-610-8924

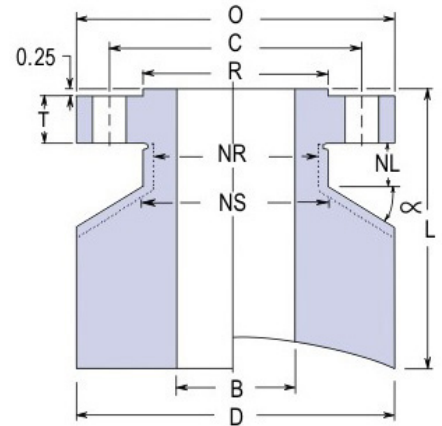
Class 2500- standard connection specifications



LONG WELD NECK "LWN"



HEAVY BARREL "HB"

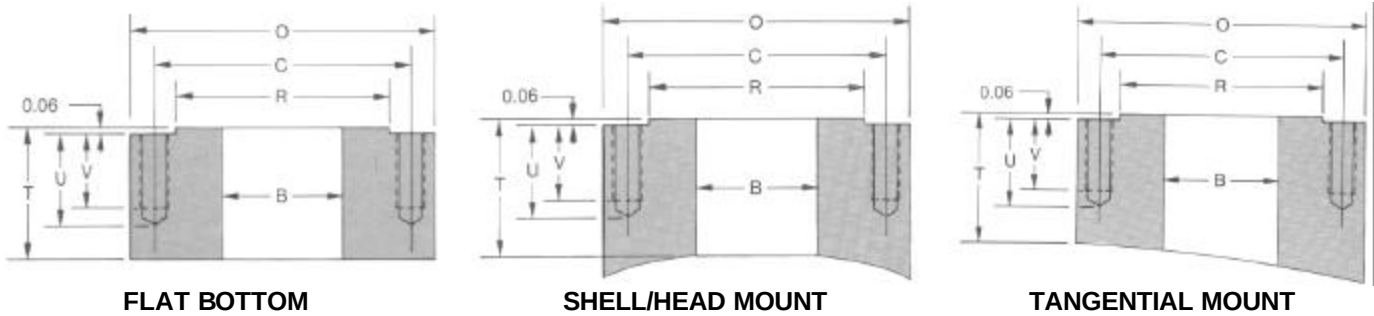


EQUAL BARREL "E"

Size			Flange			Barrel OD			Bolting			Nut			Stud Bolt			Weights						Length
Nom	Bore LWN & E	Bore HB	OD	Thk.	RF OD	LWN	HB	E	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	LWN		HB		E		Base
	B	B	O	T	R	D	D	D			C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L
1/2	0.50	0.55	5.25	1.19	1.38	1.81	2.25	5.25	4	0.88	3.50	2.25	1.81	1.00	3/4	4 3/4	4 3/4	11	0.7	14	1.1	45	6.1	9
3/4	0.75	0.74	5.50	1.25	1.69	2.06	2.50	5.50	4	0.88	3.75	2.50	2.06	1.00	3/4	5	5	13	0.8	17	1.3	49	6.6	9
1	1.00	0.96	6.25	1.38	2.00	2.25	2.81	6.25	4	1.00	4.25	2.81	2.25	1.12	7/8	5 1/2	5 1/2	18	0.9	22	1.6	62	8.5	9
1 1/4	1.25	1.28	7.25	1.50	2.50	2.88	3.50	7.25	4	1.12	5.12	3.50	2.88	1.25	1	6	6	27	1.5	32	2.4	84	11	9
1 1/2	1.50	1.50	8.00	1.75	2.88	3.12	3.94	8.00	4	1.25	5.75	3.94	3.12	1.38	1 1/8	6 3/4	6 3/4	33	1.7	42	3.0	94	14	9
2	2.00	1.94	9.25	2.00	3.62	3.75	5.12	9.25	8	1.12	6.75	5.12	3.75	1.25	1	7	7	48	2.2	66	5.0	131	18	9
2 1/2	2.50	2.32	10.50	2.25	4.12	4.50	5.94	10.50	8	1.25	7.75	5.94	4.50	1.38	1 1/8	7 3/4	8	66	3.1	90	6.7	165	23	9
3	3.00	2.90	12.00	2.62	5.00	5.25	7.00	12.00	8	1.38	9.00	7.00	5.25	1.50	1 1/4	8 3/4	9	97	4.1	127	9	210	30	9
4	4.00	3.83	14.00	3.00	6.19	6.50	8.38	14.00	8	1.62	10.75	8.38	6.50	1.75	1 1/2	10	10 1/4	159	5.8	218	12	391	40	12
5	5.00	4.81	16.50	3.62	7.31	8.00	10.00	16.50	8	1.88	12.75	10.00	8.00	2.00	1 3/4	11 3/4	12 1/4	248	8.7	319	17	518	55	12
6	6.00	5.76	19.00	4.25	8.50	9.25	11.38	19.00	8	2.12	14.50	11.38	9.25	2.25	2	13 1/2	14	358	11	441	21	641	73	12
8	8.00	7.62	21.75	5.00	10.62	12.00	14.12	21.75	12	2.12	17.25	14.12	12.00	2.25	2	15	15 1/2	589	18	743	31	1167	92	16
10	10.00	9.56	26.50	6.50	12.75	14.75	17.38	26.50	12	2.62	21.25	17.38	14.75	2.75	2 1/2	19 1/4	20	997	26	1202	47	1625	134	16
12	12.00	11.38	30.00	7.25	15.00	17.38	20.12	30.00	12	2.88	24.38	20.12	17.38	3.00	2 3/4	21 1/4	22	1363	35	1609	61	1995	168	16

Texas Flange 877-610-8924

CLASS 150 STUDDING OUTLET



Size	Outside Dia.	Thick.	R F O.D.	Stud Holes	Hole Size	Hole Depth	Stud Circle	Tap Size	T.P.I.	Tap Depth	Stud Length
	O	T	R	•	•	U	C	•	•	V	•
1/2	3.50	1.25	1.38	4	27/64	0.88	2.38	1/2	13	0.56	2.38
3/4	3.88	1.25	1.69	4	27/64	0.88	2.75	1/2	13	0.56	2.50
1	4.25	1.25	2.00	4	27/64	0.88	3.12	1/2	13	0.56	2.50
1 1/4	4.62	1.25	2.50	4	27/64	0.88	3.50	1/2	13	0.56	2.50
1 1/2	5.00	1.25	2.88	4	27/64	0.88	3.88	1/2	13	0.56	2.63
2	6.00	1.50	3.62	4	17/32	1.12	4.75	5/8	11	0.75	3.12
2 1/2	7.00	1.50	4.12	4	17/32	1.12	5.50	5/8	11	0.75	3.25
3	7.50	1.50	5.00	4	17/32	1.12	6.00	5/8	11	0.75	3.38
3 1/2	8.50	1.50	5.50	8	17/32	1.12	7.00	5/8	11	0.75	3.38
4	9.00	1.50	6.19	8	17/32	1.12	7.50	5/8	11	0.75	3.38
5	10.00	1.75	7.31	8	21/32	1.31	8.50	3/4	10	0.88	3.75
6	11.00	1.75	8.50	8	21/32	1.31	9.50	3/4	10	0.88	3.88
8	13.50	1.75	10.62	8	21/32	1.31	11.75	3/4	10	0.88	4.00
10	16.00	1.81	12.75	12	49/64	1.44	14.25	7/8	9	1.00	4.38
12	19.00	1.81	15.00	12	49/64	1.44	17.00	7/8	9	1.00	4.50
14	21.00	2.00	16.25	12	7/8	1.56	18.75	1	8	1.12	5.00
16	23.50	2.00	18.50	16	7/8	1.56	21.25	1	8	1.12	5.00
18	25.00	2.25	21.00	16	1	1.81	22.75	1 1/8	8	1.25	5.50
20	27.50	2.25	23.00	20	1	1.81	25.00	1 1/8	8	1.25	5.62
24	32.00	2.50	27.25	20	1 1/8	2.12	29.50	1 1/4	8	1.44	6.25

Material: Studding Outlets are most commonly provided in SA-105. They can also be made from a full range of stainless and alloy materials.

Thickness: The standard thickness shown in charts for all studding outlets is the minimum required per ASME Section VIII Division I Paragraph UG-43(d) for thread engagement and an ID. mount. It is important to note that each individual application should be analyzed for proper thickness. See general notes for more details.

Facing: The studding outlet minimum thickness T' includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

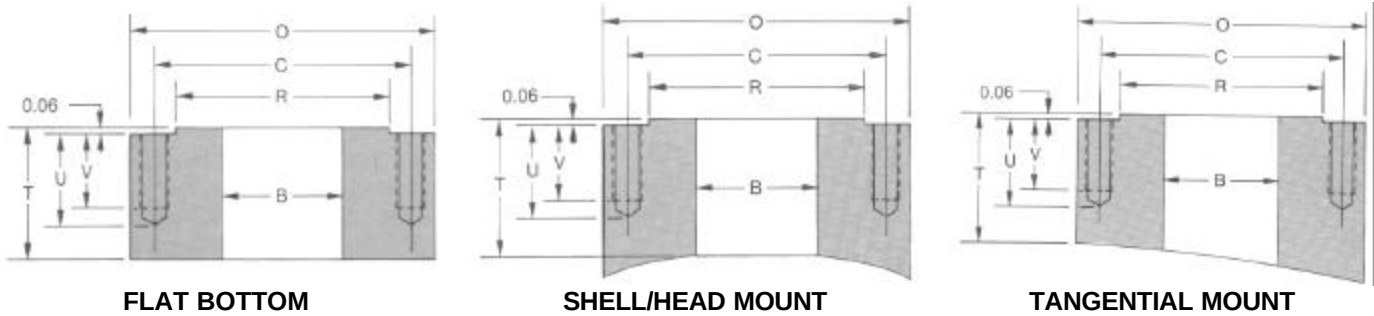
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi. All other materials exceeding these stresses should be checked for UG-43 compliance.

Bore: Bore sizes shown above are standard, other sizes can be furnished upon request.

Curving: All connections can be furnished contoured to fit any shell, head or cone at an additional cost.

TEXAS FLANGE 800-826-3801

CLASS 300 STUDDING OUTLET



Size	Outside Dia.	Thick.	R F O.D.	Stud Holes	Hole Size	Hole Depth	Stud Circle	Tap Size	T.P.I.	Tap Depth	Stud Length
	O	T	R	•	•	U	C	•	•	V	•
1/2	3.75	1.25	1.38	4	27/64	0.88	2.62	1/2	13	0.56	3.00
3/4	4.62	1.50	1.69	4	17/32	1.12	3.25	5/8	11	0.75	3.50
1	4.88	1.50	2.00	4	17/32	1.12	3.50	5/8	11	0.75	3.62
1 1/4	5.25	1.50	2.50	4	17/32	1.12	3.88	5/8	11	0.75	3.75
1 1/2	6.12	1.75	2.88	4	21/32	1.31	4.50	3/4	10	0.88	4.25
2	6.50	1.50	3.62	8	17/32	1.12	5.00	5/8	11	0.75	3.88
2 1/2	7.50	1.75	4.12	8	21/32	1.31	5.88	3/4	10	0.88	4.50
3	8.25	1.75	5.00	8	21/32	1.31	6.62	3/4	10	0.88	4.62
3 1/2	9.00	1.75	5.50	8	21/32	1.31	7.25	3/4	10	0.88	5.12
4	10.00	1.75	6.19	8	21/32	1.31	7.88	3/4	10	0.88	5.12
5	11.00	1.75	7.31	8	21/32	1.31	9.25	3/4	10	0.88	5.25
6	12.50	1.75	8.50	12	21/32	1.31	10.62	3/4	10	0.88	5.38
8	15.00	1.88	10.62	12	49/64	1.44	13.00	7/8	9	1.00	6.00
10	17.50	2.12	12.75	16	7/8	1.56	15.25	1	8	1.12	6.62
12	20.50	2.25	15.00	16	1	1.81	17.75	1 1/8	8	1.25	7.12
14	23.00	2.25	16.25	20	1	1.81	20.25	1 1/8	8	1.25	7.25
16	25.50	2.50	18.50	20	1 1/8	2.12	22.50	1 1/4	8	1.44	7.75
18	28.00	2.50	21.00	24	1 1/8	2.12	24.75	1 1/4	8	1.44	7.88
20	30.50	2.50	23.00	24	1 1/8	2.12	27.00	1 1/4	8	1.44	8.38
24	36.00	2.88	27.25	24	1 3/8	2.38	32.00	1 1/2	8	1.69	9.38

Material: Studding Outlets are most commonly provided in SA-105. They can also be made from a full range of stainless and alloy materials.

Thickness: The standard thickness shown in charts for all studding outlets is the minimum required per ASME Section VIII Division I Paragraph UG-43(d) for thread engagement and an ID. mount. It is important to note that each individual application should be analyzed for proper thickness. See general notes for more details.

Facing: The studding outlet minimum thickness T' includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

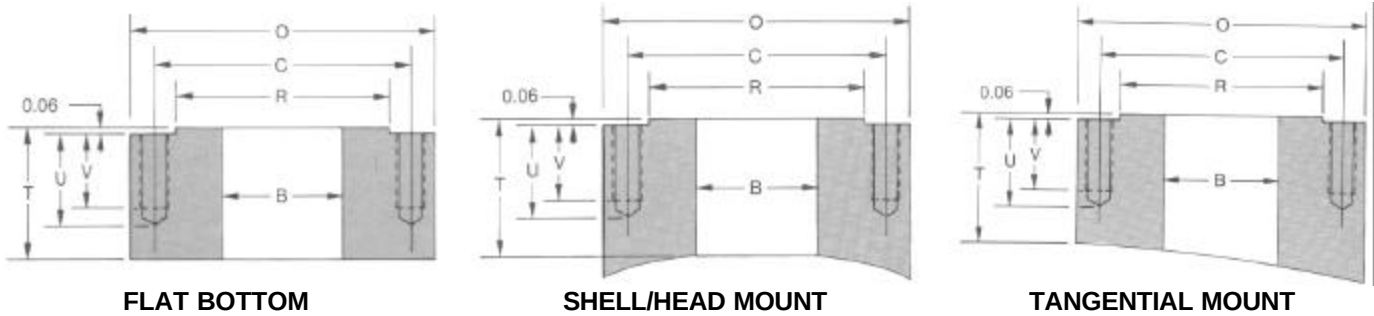
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi. All other materials exceeding these stresses should be checked for UG-43 compliance.

Bore: Bore sizes shown above are standard, other sizes can be furnished upon request.

Curving: All connections can be furnished contoured to fit any shell, head or cone at an additional cost.

TEXAS FLANGE 800-826-3801

CLASS 600 STUDDING OUTLET



Size	Outside Dia.	Thick.	R F O.D.	Stud Holes	Hole Size	Hole Depth	Stud Circle	Tap Size	T.P.I.	Tap Depth	Stud Length
	O	T	R	•	•	U	C	•	•	V	•
1/2	3.75	1.50	1.38	4	27/64	0.88	2.62	1/2	13	0.56	3.00
3/4	4.62	1.75	1.69	4	17/32	1.12	3.25	5/8	11	0.75	3.50
1	4.88	1.75	2.00	4	17/32	1.12	3.50	5/8	11	0.75	3.62
1 1/4	5.25	1.75	2.50	4	17/32	1.12	3.88	5/8	11	0.75	3.75
1 1/2	6.12	1.94	2.88	4	21/32	1.31	4.50	3/4	10	0.88	4.25
2	6.50	1.75	3.62	8	17/32	1.12	5.00	5/8	11	0.75	3.88
2 1/2	7.50	2.00	4.12	8	21/32	1.31	5.88	3/4	10	0.88	4.50
3	8.25	2.00	5.00	8	21/32	1.31	6.62	3/4	10	0.88	4.62
3 1/2	9.00	2.12	5.50	8	49/64	1.44	7.25	7/8	9	1.00	5.12
4	10.75	2.12	6.19	8	49/64	1.44	8.50	7/8	9	1.00	5.25
5	13.00	2.25	7.31	8	7/8	1.56	10.50	1	8	1.12	5.88
6	14.00	2.25	8.50	12	7/8	1.56	11.50	1	8	1.12	6.00
8	16.50	2.50	10.62	12	1	1.81	13.75	11/8	8	1.25	6.62
10	20.00	2.75	12.75	16	11/8	2.12	17.00	11/4	8	1.44	7.38
12	22.00	2.75	15.00	20	11/8	2.12	19.25	11/4	8	1.44	7.50
14	23.75	2.88	16.25	20	11/4	2.25	20.75	13/8	8	1.56	8.00
16	27.00	3.00	18.50	20	13/8	2.38	23.75	11/2	8	1.69	8.62
18	29.25	3.25	21.00	20	11/2	2.56	25.75	15/8	8	1.88	9.25
20	32.00	3.25	23.00	24	11/2	2.56	28.50	15/8	8	1.88	9.75
24	37.00	3.75	27.25	24	13/4	3.00	33.00	17/8	8	2.12	11.12

Material: Studding Outlets are most commonly provided in SA-105. They can also be made from a full range of stainless and alloy materials.

Thickness: The standard thickness shown in charts for all studding outlets is the minimum required per ASME Section VIII Division I Paragraph UG-43(d) for thread engagement and an ID. mount. It is important to note that each individual application should be analyzed for proper thickness. See general notes for more details.

Facing: The studding outlet minimum thickness T' includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

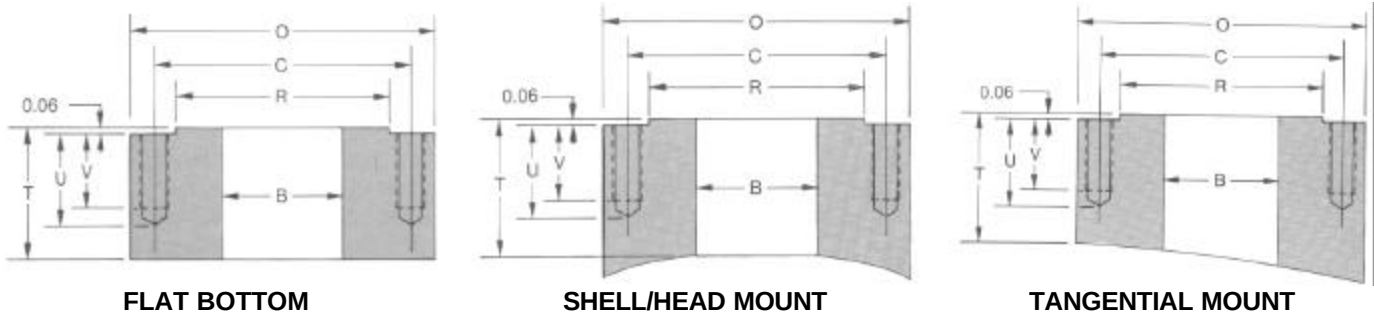
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi. All other materials exceeding these stresses should be checked for UG-43 compliance.

Bore: Bore sizes shown above are standard, other sizes can be furnished upon request.

Curving: All connections can be furnished contoured to fit any shell, head or cone at an additional cost.

TEXAS FLANGE 800-826-3801

CLASS 900 STUDDING OUTLET



Size	Outside Dia.	Thick.	R F O.D.	Stud Holes	Hole Size	Hole Depth	Stud Circle	Tap Size	T.P.I.	Tap Depth	Stud Length
	O	T	R	•	•	U	C	•	•	V	•
1/2	4.75	2.00	1.38	4	21/32	1.31	3.25	3/4	10	0.88	4.25
3/4	5.12	2.00	1.69	4	21/32	1.31	3.50	3/4	10	0.88	4.38
1	5.88	2.12	2.00	4	49/64	1.44	4.00	7/8	9	1.00	4.88
1 1/4	6.25	2.12	2.50	4	49/64	1.44	4.38	7/8	9	1.00	4.88
1 1/2	7.00	2.25	2.88	4	7/8	1.56	4.88	1	8	1.12	5.38
2	8.50	2.12	3.62	8	49/64	1.44	6.50	7/8	9	1.00	5.25
2 1/2	9.62	2.25	4.12	8	7/8	1.56	7.50	1	8	1.12	5.75
3	9.50	2.12	5.00	8	49/64	1.44	7.50	7/8	9	1.00	5.25
4	11.50	2.50	6.19	8	1	1.81	9.25	1 1/8	8	1.25	6.25
5	13.75	2.75	7.31	8	1 1/8	2.12	11.00	1 1/4	8	1.44	6.88
6	15.00	2.50	8.50	12	1	1.81	12.50	1 1/8	8	1.25	6.62
8	18.50	3.00	10.62	12	1 1/4	2.25	15.50	1 3/8	8	1.56	7.75
10	21.50	3.00	12.75	16	1 1/4	2.25	18.50	1 3/8	8	1.56	8.00
12	24.00	3.00	15.00	20	1 1/4	2.25	21.00	1 3/8	8	1.56	8.38
14	25.25	3.25	16.25	20	1 3/8	2.38	22.00	1 1/2	8	1.69	9.00
16	27.75	3.50	18.50	20	1 1/2	2.56	24.25	1 5/8	8	1.88	9.50
18	31.00	3.88	21.00	20	1 3/4	3.00	27.00	1 7/8	8	2.12	10.88
20	33.75	4.25	23.00	20	1 7/8	3.31	29.50	2	8	2.25	11.75
24	41.00	5.12	27.25	20	2 3/8	4.00	35.50	2 1/2	8	2.81	14.62

Material: Studding Outlets are most commonly provided in SA-105. They can also be made from a full range of stainless and alloy materials.

Thickness: The standard thickness shown in charts for all studding outlets is the minimum required per ASME Section VIII Division I Paragraph UG-43(d) for thread engagement and an ID. mount. It is important to note that each individual application should be analyzed for proper thickness. See general notes for more details.

Facing: The studding outlet minimum thickness T' includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

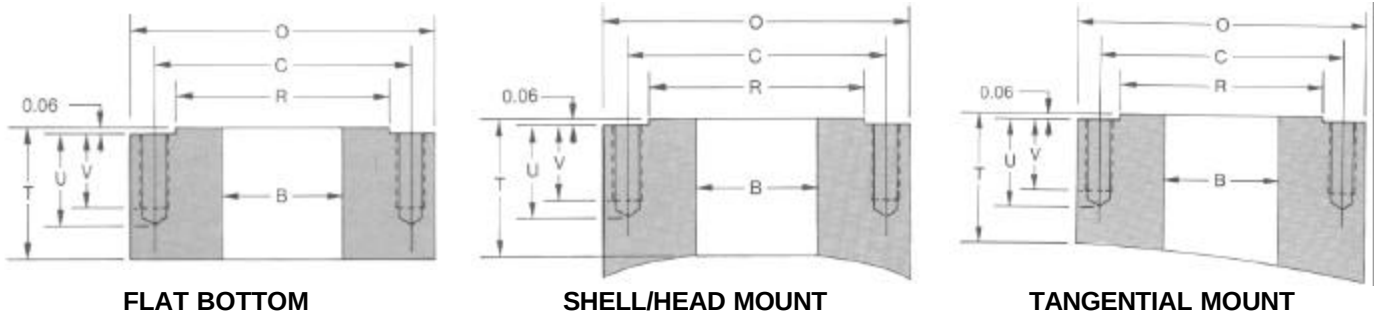
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi. All other materials exceeding these stresses should be checked for UG-43 compliance.

Bore: Bore sizes shown above are standard, other sizes can be furnished upon request.

Curving: All connections can be furnished contoured to fit any shell, head or cone at an additional cost.

TEXAS FLANGE 800-826-3801

CLASS 1500 STUDDING OUTLET



Size	Outside Dia.	Thick.	R F O.D.	Stud Holes	Hole Size	Hole Depth	Stud Circle	Tap Size	T.P.I.	Tap Depth	Stud Length
	O	T	R	•	•	U	C	•	•	V	•
1/2	4.75	2.00	1.38	4	21/32	1.31	3.25	3/4	10	0.88	4.25
3/4	5.12	2.00	1.69	4	21/32	1.31	3.50	3/4	10	0.88	4.38
1	5.88	2.12	2.00	4	49/64	1.44	4.00	7/8	9	1.00	4.88
1 1/4	6.25	2.12	2.50	4	49/64	1.44	4.38	7/8	9	1.00	4.88
1 1/2	7.00	2.25	2.88	4	7/8	1.56	4.88	1	8	1.12	5.38
2	8.50	2.12	3.62	8	49/64	1.44	6.50	7/8	9	1.00	5.25
2 1/2	9.62	2.25	4.12	8	7/8	1.56	7.50	1	8	1.12	5.75
3	10.50	2.50	5.00	8	1	1.81	8.00	1 1/8	8	1.25	6.38
4	12.25	2.75	6.19	8	1 1/8	2.12	9.50	1 1/4	8	1.44	7.00
5	14.75	3.12	7.31	8	1 3/8	2.38	11.50	1 1/2	8	1.69	8.50
6	15.50	3.00	8.50	12	1 1/4	2.25	12.50	1 3/8	8	1.56	8.50
8	19.00	3.50	10.62	12	1 1/2	2.56	15.50	1 5/8	8	1.88	9.62
10	23.00	3.88	12.75	12	1 3/4	3.00	19.00	1 7/8	8	2.12	11.12
12	26.50	4.12	15.00	16	1 7/8	3.31	22.50	2	8	2.25	12.12
14	29.50	4.25	16.25	16	2 1/8	3.56	25.00	2 1/4	8	2.56	13.25
16	32.50	5.00	18.50	16	2 3/8	4.00	27.75	2 1/2	8	2.81	14.62
18	36.00	5.50	21.00	16	2 5/8	4.38	30.50	2 3/4	8	3.12	16.00
20	38.75	5.88	23.00	16	2 7/8	4.62	32.75	3	8	3.44	17.62
24	46.00	6.75	27.25	16	3 3/8	5.38	39.00	3 1/2	8	4.00	20.12

Material: Studding Outlets are most commonly provided in SA-105. They can also be made from a full range of stainless and alloy materials.

Thickness: The standard thickness shown in charts for all studding outlets is the minimum required per ASME Section VIII Division I Paragraph UG-43(d) for thread engagement and an ID. mount. It is important to note that each individual application should be analyzed for proper thickness. See general notes for more details.

Facing: The studding outlet minimum thickness T' includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

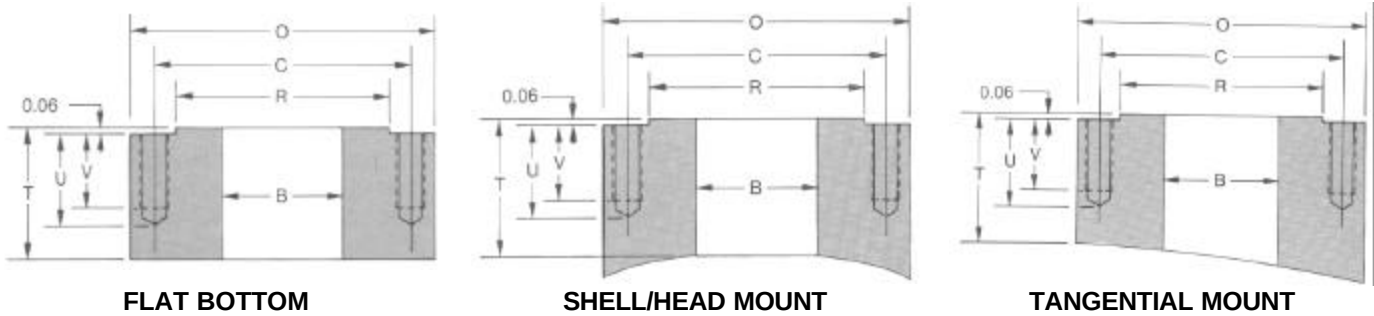
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi. All other materials exceeding these stresses should be checked for UG-43 compliance.

Bore: Bore sizes shown above are standard, other sizes can be furnished upon request.

Curving: All connections can be furnished contoured to fit any shell, head or cone at an additional cost.

TEXAS FLANGE 800-826-3801

CLASS 2500 STUDDING OUTLET



Size	Outside Dia.	Thick.	R F O.D.	Stud Holes	Hole Size	Hole Depth	Stud Circle	Tap Size	T.P.I.	Tap Depth	Stud Length
	O	T	R	•	•	U	C	•	•	V	•
1/2	5.25	2.00	1.38	4	21/32	1.31	3.50	3/4	10	0.88	4.50
3/4	5.50	2.00	1.69	4	21/32	1.31	3.75	3/4	10	0.88	4.62
1	6.25	2.12	2.00	4	49/64	1.44	4.25	7/8	9	1.00	5.12
1 1/4	7.25	2.25	2.50	4	7/8	1.56	5.12	1	8	1.12	5.62
1 1/2	8.00	2.50	2.88	4	1	1.81	5.75	1 1/8	8	1.25	6.25
2	9.25	2.25	3.62	8	7/8	1.56	6.75	1	8	1.12	6.12
2 1/2	10.50	2.50	4.12	8	1	1.81	7.75	1 1/8	8	1.25	6.75
3	12.00	2.75	5.00	8	1 1/8	2.12	9.00	1 1/4	8	1.44	7.50
4	14.00	3.25	6.19	8	1 3/8	2.38	10.75	1 1/2	8	1.69	8.62
5	16.50	3.75	7.31	8	1 5/8	2.81	12.75	1 1/2	8	2.00	10.00
6	19.00	4.12	8.50	8	1 7/8	3.31	14.50	2	8	2.25	11.50
8	21.75	4.38	10.62	12	1 7/8	3.31	17.25	2	8	2.25	12.25
10	26.50	5.12	12.75	12	2 3/8	4.00	21.25	2 1/2	8	2.81	15.38
12	30.00	5.50	15.00	12	2 5/8	4.38	24.38	2 3/4	8	3.12	16.88

Material: Studding Outlets are most commonly provided in SA-105. They can also be made from a full range of stainless and alloy materials.

Thickness: The standard thickness shown in charts for all studding outlets is the minimum required per ASME Section VIII Division I Paragraph UG-43(d) for thread engagement and an ID. mount. It is important to note that each individual application should be analyzed for proper thickness. See general notes for more details.

Facing: The studding outlet minimum thickness T' includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

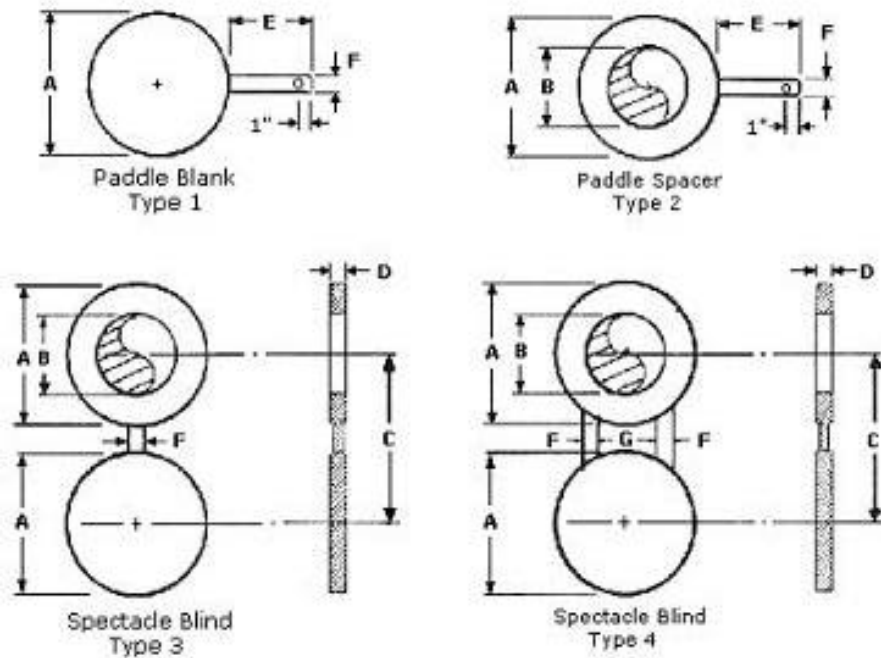
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi. All other materials exceeding these stresses should be checked for UG-43 compliance.

Bore: Bore sizes shown above are standard, other sizes can be furnished upon request.

Curving: All connections can be furnished contoured to fit any shell, head or cone at an additional cost.

TEXAS FLANGE 800-826-3801

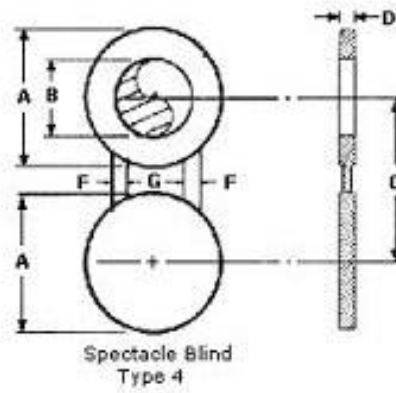
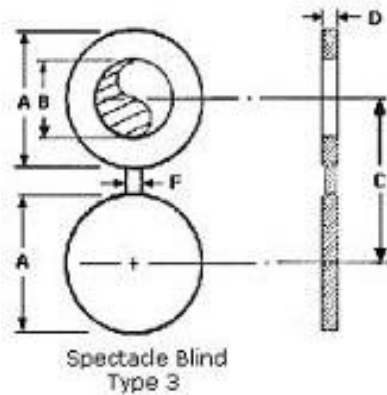
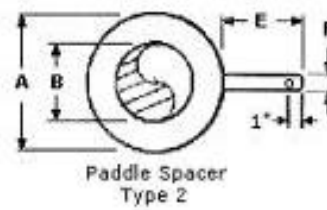
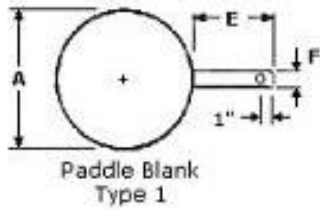
150 # RF Flange Rating



SIZE (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	Weight in lbs		
								1	2	3,4
1	2 1/2	1.05	3 1/8	1/4	4	1		1	1	1
1 1/2	3 1/4	1.90	3 7/8	1/4	4	1		1	1	1
2	4	2.38	4 3/4	1/4	4	1		2	1	2
2 1/2	4 3/4	2.88	5 1/2	1/4	4	1		2	2	3
3	5 1/4	3.50	6	1/4	4	1		2	2	3
4	6 3/4	4.50	7 1/2	3/8	4	1		3	2	5
6	8 5/8	6.62	9 1/2	1/2	4	1		7	4	10
8	10 7/8	8.62	11 3/4	1/2	4	1		14	7	20
10	13 1/4	10.75	14 1/4	5/8	5	1		26	12	35
12	16	12.75	17	3/4	5	1 1/2		45	21	62
14	17 1/2	14.00	18 3/4	3/4	5	1 1/2		53	24	74
16	20	16.00	21 1/4	7/8	5	1 1/2	1 1/2	92	40	127
18	21 3/8	18.00	22 3/4	1	5	1 1/2	1 1/2	105	39	139
20	23 5/8	20.00	25	1 1/8	5	1 1/2	1 1/2	145	50	188
24	28	24.00	29 1/2	1 1/4	5	1 1/2	1 1/2	245	80	315
30	34 1/2	30.00	36	1 5/8	5	1 1/2	1 1/2	437	128	555
36	41	36.00	42 3/4	2	6	1 1/2	1 3/4	757	203	945

Texas Flange 877-610-8924

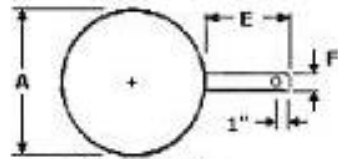
300 # RF Flange Rating



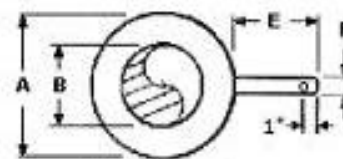
SIZE (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	Weight in lbs		
								1	2	3,4
1	2 3/4	1 05	3 1/2	1/4	4	1		1	1	1
1 1/2	3 5/8	1.90	4 1/2	1/4	4	1		1	1	2
2	4 1/4	2.38	5	3/8	4	1		2	1	2
2 1/2	5	2.88	5 7/8	3/8	4	1		3	2	4
3	5 3/4	3.50	6 5/8	3/8	4	1		3	3	4
4	7	4.50	7 7/8	1/2	4	1		7	5	10
6	9 3/4	6.62	10 5/8	5/8	4	1		15	10	22
8	12	8.62	13	7/8	4	1		26	15	38
10	14 1/8	10.75	15 1/4	1	5	1		47	25	67
12	16 1/2	12.75	17 3/4	1 1/4	5	1 1/2	1 1/2	79	39	113
14	18 7/8	14.00	20 1/4	1 1/4	5	1 1/2	1 1/2	103	54	150
16	21	16	22 1/2	1 1/2	5	1 1/2	1 1/2	151	74	218
18	23 1/4	18	24 3/4	1 5/8	5	1 1/2	1 1/2	200	92	285
20	25 1/2	20	27	1 7/8	6	1 1/2	1 1/2	280	124	390
24	30 1/4	24	32	2	6	1 1/2	1 1/2	470	200	650
30	37 1/4	30	39 1/4	2 5/8	6	1 1/2	1 1/2	860	340	1190

Texas Flange 877-610-8924

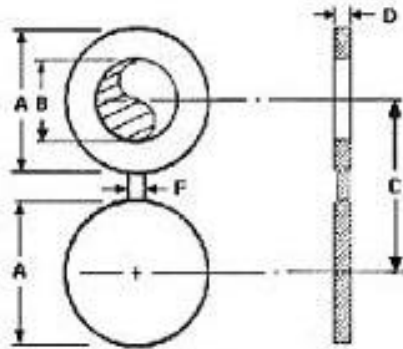
600 # RF Flange Rating



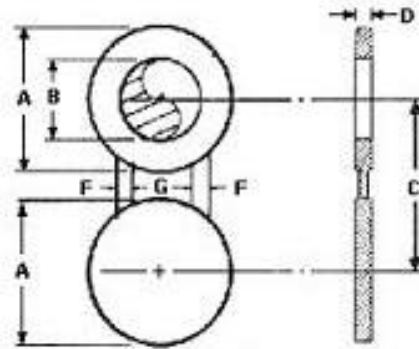
Paddle Blank
Type 1



Paddle Spacer
Type 2



Spectacle Blind
Type 3

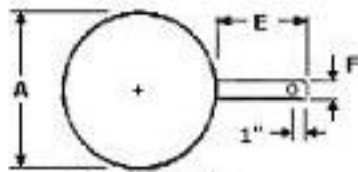


Spectacle Blind
Type 4

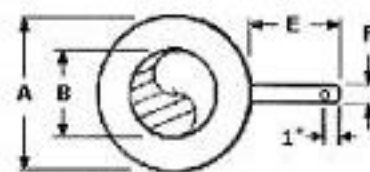
SIZE (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	Weight in lbs		
								1	2	3,4
1	2 3/4	1.50	3 1/2	1/4	4	1		1	1	1
1 1/2	3 5/8	1.68	4 1/2	0.375	4	1		1	1	2
2	4 1/4	2.16	5	0.375	4	1		2	1	3
2 1/2	5	2.64	5 7/8	0.500	4	1		3	2	4
3	5 3/4	3.26	6 5/8	0.500	4	1		5	4	7
4	7 1/2	4.26	8 1/2	0.625	4	1		9	7	14
6	10 3/8	6.36	11 1/2	.875	4	1		23	17	36
8	12 1/2	8.33	13 3/4	1.125	4	1		42	27	65
10	15 5/8	10.42	17	1.375	5	1 1/2	1 1/2	85	53	132
12	17 3/4	12.39	19 1/4	1.625	5	1 1/2	1 1/2	127	73	193
14	19 1/8	13.62	20 3/4	1.750	5	1 1/2	1 3/4	147	79	218
16	22	15.62	23 3/4	2.000	5	1 1/2	1 3/4	237	140	365
18	23 7/8	17.62	25 3/4	2.125	5	1 1/2	2	310	153	450
20	26 5/8	19.56	28 1/2	2.500	6	1 1/2	2	405	235	625
24	30 7/8	23.50	33	2.875	6	1 1/2	2 1/4	645	335	970

Texas Flange 877-610-8924

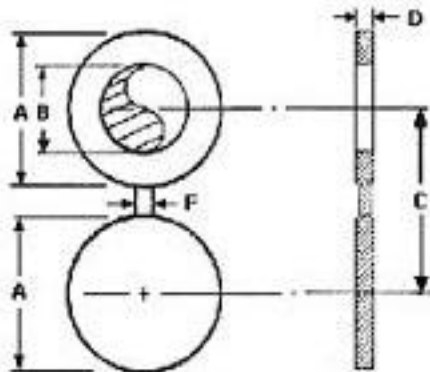
900 # RF Flange Rating



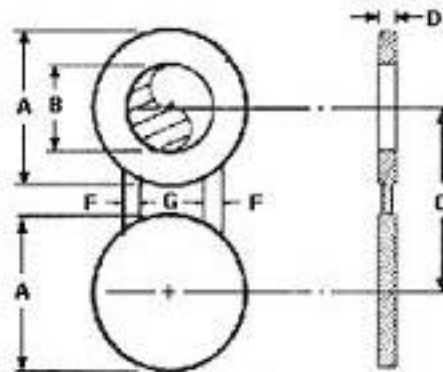
Paddle Blank
Type 1



Paddle Spacer
Type 2



Spectacle Blind
Type 3



Spectacle Blind
Type 4

SIZE (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	Weight in lbs		
								1	2	3,4
1	3	1.05	4	3/4	5	1		1	1	1
1 1/2	3 3/4	1.68	4 7/8	0.375	5	1		2	2	2
2	5 1/2	2.16	6 1/2	0.500	5	1		3	3	5
2 1/2	6 3/8	2.64	7 1/2	0.500	5	1		6	5	9
3	6 1/2	3.26	7 1/2	0.625	5	1		8	7	11
4	8	4.26	9 1/4	0.750	5	1		13	11	20
6	11 1/4	6.36	12 1/2	1.000	5	1		35	28	58
8	14	8.33	15 1/2	1.375	5	1	1 1/2	63	49	107
10	17	10.42	18 1/2	1.625	5	1 1/2	1 1/2	117	89	200
12	19 3/8	12.39	21	1.875	5	1 1/2	1 1/2	172	127	290
14	20 1/4	13.62	22	2.125	6	1 1/2	1 3/4	212	150	350
16	22 3/8	15.62	24 1/4	2.375	6	1 1/2	1 3/4	286	196	468
18	24 7/8	17.62	27	2.625	6	1 1/2	2	407	275	665

Texas Flange 877-610-8924

WALL THICKNESSES

Nom Pipe Size	Nom Out Dia	NOMINAL WALL THICKNESS													Nom Pipe Size
		Sch 10	Sch 20	Sch 30	STD Wall	Sch 40	Sch 60	EXT Hvy	Sch 80	Sch 100	Sch 120	Sch 140	Sch 160	XX Hvy	
½	0.840	.083	-	-	.109	.109	-	.147	.147	-	-	-	.188	.294	½
¾	1.050	.083	-	-	.113	.113	-	.154	.154	-	-	-	.219	.308	¾
1	1.315	.109	-	-	.133	.133	-	.179	.179	-	-	-	.250	.358	1
1 ¼	1.660	.109	-	-	.140	.140	-	.191	.191	-	-	-	.250	.382	1 ¼
1 ½	1.900	.109	-	-	.145	.145	-	.200	.200	-	-	-	.281	.400	1 ½
2	2.375	.109	-	-	.154	.154	-	.218	.218	-	-	-	.344	.436	2
2 ½	2.875	.120	-	-	.203	.203	-	.276	.276	-	-	-	.375	.552	2 ½
3	3.500	.120	-	-	.216	.216	-	.300	.300	-	-	-	.438	.600	3
3 ½	4.000	.120	-	-	.226	.226	-	.318	.318	-	-	-	-	.636	3 ½
4	4.500	.120	-	-	.237	.237	-	.337	.337	-	.438	-	.531	.674	4
5	5.563	.134	-	-	.258	.258	-	.375	.375	-	.500	-	.625	.750	5
6	6.625	.134	-	-	.280	.280	-	.432	.432	-	.562	-	.719	.864	6
8	8.625	.148	.250	.277	.322	.322	.406	.500	.500	.594	.719	.812	.906	.875	8
10	10.75	.165	.250	.307	.365	.365	.500	.500	.594	.719	.844	1.000	1.125	1.000	10
12	12.75	.180	.250	.330	.375	.406	.562	.500	.688	.844	1.000	1.125	1.312	1.000	12
14	14.00	.250	.312	.375	.375	.438	.594	.500	.750	.938	1.094	1.250	1.406	-	14
16	16.00	.250	.312	.375	.375	.500	.656	.500	.844	1.031	1.219	1.438	1.594	-	16
18	18.00	.250	.312	.438	.375	.562	.750	.500	.938	1.156	1.375	1.562	1.781	-	18
20	20.00	.250	.375	.500	.375	.594	.812	.500	1.031	1.281	1.500	1.750	1.969	-	20
22	22.00	.250	-	-	.375	-	-	.500	-	-	-	-	-	-	22
24	24.00	.250	.375	.562	.375	.688	.969	.500	1.219	1.531	1.812	2.062	2.344	-	24
26	26.00	-	-	-	.375	-	-	.500	-	-	-	-	-	-	26
30	30.00	.312	.500	.625	.375	-	-	.500	-	-	-	-	-	-	30
36	36.00	.312	.500	.625	.375	.750	-	.500	-	-	-	-	-	-	36
40	40.00	-	-	-	.375	-	-	.500	-	-	-	-	-	-	40
42	42.00	-	-	-	.375	-	-	.500	-	-	-	-	-	-	42
48	48.00	-	-	-	.375	-	-	.500	-	-	-	-	-	-	48

1. Dimensions are in inches.
2. Light Wall thicknesses are identical to stainless steel Schedule 10S in sizes thru 12", and to Schedule 10 in sizes 14" and larger.
3. Standard Wall thicknesses are identical to stainless steel Schedule 40S in sizes thru 12".
4. Extra Heavy Wall thicknesses are identical to stainless steel Schedule 80S in sizes thru 12".
5. Other types, sizes, and thicknesses of flanges can be provided to meet application.
6. Stocked and manufactured in carbon steel, stainless steel, and a variety of other metals and alloys.
7. Inside pipe diameters are provided on the following page.

Texas Flange 800-826-3801

EVERY TYPE...

EVERY THICKNESS...

EVERY MATERIAL...

Weld Neck Flange Bores

Nom Pipe Size	Nom Out Dia	NOMINAL WALL THICKNESS													Nom Pipe Size
		Sch 10	Sch 20	Sch 30	STD Wall	Sch 40	Sch 60	EXT Hvy	Sch 80	Sch 100	Sch 120	Sch 140	Sch 160	XX Hvy	
½	0.840	.674	-	-	.622	.622	-	.546	.546	-	-	-	.464	.252	½
¾	1.050	.884	-	-	.824	.824	-	.742	.742	-	-	-	.612	.434	¾
1	1.315	1.097	-	-	1.049	1.049	-	.957	.957	-	-	-	.815	.599	1
1 ¼	1.660	1.442	-	-	1.380	1.380	-	1.278	1.278	-	-	-	1.160	.896	1 ¼
1 ½	1.900	1.682	-	-	1.610	1.610	-	1.500	1.500	-	-	-	1.338	1.100	1 ½
2	2.375	2.157	-	-	2.067	2.067	-	1.939	1.939	-	-	-	1.687	1.503	2
2 ½	2.875	2.635	-	-	2.469	2.469	-	2.323	2.323	-	-	-	2.125	1.771	2 ½
3	3.500	3.260	-	-	3.068	3.068	-	2.900	2.900	-	-	-	2.624	2.300	3
3 ½	4.000	3.760	-	-	3.548	3.548	-	3.364	3.364	-	-	-	-	2.728	3 ½
4	4.500	4.260	-	-	4.026	4.026	-	3.826	3.826	-	3.624	-	3.438	3.152	4
5	5.563	5.295	-	-	5.047	5.047	-	4.813	4.813	-	4.563	-	4.313	4.063	5
6	6.625	6.357	-	-	6.065	6.065	-	5.761	5.761	-	5.501	-	5.187	4.897	6
8	8.625	8.329	8.125	8.071	7.981	7.981	7.813	7.625	7.625	7.437	7.187	7.001	6.813	6.875	8
10	10.75	10.420	10.250	10.136	10.020	10.020	9.750	9.750	9.562	9.312	9.062	8.750	8.500	8.750	10
12	12.75	12.390	12.250	12.090	12.000	11.938	11.626	11.750	11.374	11.062	10.750	10.500	10.126	10.750	12
14	14.00	13.500	13.376	13.250	13.250	13.124	12.812	13.000	12.500	12.124	11.812	11.500	11.188	-	14
16	16.00	15.500	15.376	15.250	15.250	15.000	14.688	15.000	14.312	13.938	13.562	13.124	12.812	-	16
18	18.00	17.500	17.376	17.124	17.250	16.876	16.500	17.000	16.124	15.688	15.250	14.876	14.438	-	18
20	20.00	19.500	19.250	19.000	19.250	18.812	18.376	19.000	17.938	17.438	17.000	16.500	16.062	-	20
22	22.00	21.500	-	-	.21.250	-	-	21.000	-	-	-	-	-	-	22
24	24.00	23.500	23.250	22.876	23.250	22.624	22.062	23.000	21.562	20.938	20.376	19.876	19.312	-	24
26	26.00	-	-	-	25.250	-	-	25.000	-	-	-	-	-	-	26
30	30.00	29.376	29.000	28.750	29.250	-	-	29.000	-	-	-	-	-	-	30
36	36.00	35.376	35.000	34.750	35.250	34.500	-	35.000	-	-	-	-	-	-	36
40	40.00	-	-	-	39.250	-	-	39.000	-	-	-	-	-	-	40
42	42.00	-	-	-	41.250	-	-	41.000	-	-	-	-	-	-	42
48	48.00	-	-	-	47.250	-	-	47.000	-	-	-	-	-	-	48

1. Dimensions are in inches.
2. Source: ANSI B36.10
3. These dimensions are the same for inside pipe diameter. **ALWAYS** specify bore when ordering.
4. Other types, sizes, and thicknesses of flanges can be provided to meet application.
5. Stocked and manufactured in carbon steel, stainless steel, and a variety of other metals and alloys.
6. Wall thicknesses are provided on the previous page.

Texas Flange 800-826-3801

EVERY TYPE...

EVERY THICKNESS...

EVERY MATERIAL...

Texas Flange

TEL:877-610-8924

FAX:877-610-8893

E-MAIL:sales@texasflange.com

www.texasflange.com

DIMENSIONS OF RING-JOINT FACINGS



TOLERANCES

E(depth) +0.016

-0

F(width) ±0.008

P(pitch diam) ±0.005

R(radius at bottom)Max

23°(angle) ±1/2°

DIMENSIONS IN INCHES

NOMINAL PIPE SIZE							GROOVE NUMBER	GROOVE DIMENSIONS				DIAMETER OF RAISED PORTION K				
150 PSI	300 PSI	400 PSI	600 PSI	900 PSI	1500 PSI	2500 PSI		PITCH DIAMETER	DEPTH	WIDTH	RADIUS AT BOTTOM	150 PSI	300 400 600 PSI	900 PSI	1500 PSI	2500 PSI
								P	E	F	R					
-	1/2	-	1/2	-	-	-	R11	1-11/32	7/32	9/32	1/32	-	2-	-	-	-
-	-	-	-	-	1/2	-	12	1-9/16	1/4	11/32	1/32	-	-	2-3/8	2-3/8	-
-	3/4	-	3/4	-	-	1/2	13	1-11/16	1/4	11/32	1/32	-	2-1/2	-	-	2-9/16
-	-	-	-	-	3/4	-	14	1-3/4	1/4	11/32	1/32	-	-	2-5/8	2-5/8	-
1	-	-	-	-	-	-	15	1-7/8	1/4	11/32	1/32	2-1/2	-	-	-	-
-	1	-	1	-	1	3/4	16	2	1/4	11/32	1/32	-	2-3/4	2-13/16	2-13/16	2-7/8
1-1/4	-	-	-	-	-	-	17	2-1/4	1/4	11/32	1/32	2-7/8	-	-	-	-
-	1-1/4	-	1-1/4	-	1-1/4	1	18	2-3/8	1/4	11/32	1/32	-	3-1/8	3-3/16	3-3/16	3-1/4
1-1/2	-	-	-	-	-	-	19	2-9/16	1/4	11/32	1/32	3-1/4	-	-	-	-
-	1-1/2	-	1-1/2	-	1-1/2	-	20	2-11/16	1/4	11/32	1/32	-	3-9/16	3-5/8	3-5/8	-
-	-	-	-	-	-	1-1/4	21	2-27/32	5/16	15/32	1/32	-	-	-	-	4
2	-	-	-	-	-	-	22	3-1/4	1/4	11/32	1/32	4	-	-	-	-
-	2	-	2	-	-	1-1/2	23	3-1/4	5/16	15/32	1/32	-	4-1/4	-	-	4-1/2
-	-	-	-	-	2	-	24	3-3/4	5/16	15/32	1/32	-	-	4-7/8	4-7/8	-
2-1/2	-	-	-	-	-	-	25	4	1/4	11/32	1/32	4-3/4	-	-	-	-
-	2-1/2	-	2-1/2	-	-	2	26	4	5/16	15/32	1/32	-	5	-	-	5-1/4
-	-	-	-	-	2-1/2	-	27	4-1/4	5/16	15/32	1/32	-	-	-	5-3/8	-
-	-	-	-	-	-	2-1/2	28	4-3/8	3/8	17/32	1/16	-	-	-	-	5-7/8
3	-	-	-	-	-	-	29	4-1/2	1/4	11/32	1/32	5-1/4	-	-	-	-
-	-	-	-	-	-	-	30	4-5/8	5/16	15/32	1/32	-	-	-	-	-
-	3	-	3	3	-	-	31	4-7/8	5/16	15/32	1/32	-	5-3/4	6-1/8	-	-
-	-	-	-	-	-	3	32	5	3/8	17/32	1/16	-	-	-	-	6-5/8
3-1/2	-	-	-	-	-	-	33	5-3/16	1/4	11/32	1/32	6-1/16	-	-	-	-
-	3-1/2	-	3-1/2	-	-	-	34	5-3/16	5/16	15/32	1/32	-	6-1/4	-	-	-
-	-	-	-	-	3	-	35	5-3/8	5/16	15/32	1/32	-	-	-	6-5/8	-
4	-	-	-	-	-	-	36	5-7/8	1/4	11/32	1/32	6-3/4	-	-	-	-
-	4	4	4	4	-	-	37	5-7/8	5/16	15/32	1/32	-	6-7/8	7-1/8	-	-
-	-	-	-	-	-	4	38	6-3/16	7/16	21/32	1/16	-	-	-	-	8
-	-	-	-	-	4	-	39	6-3/8	5/16	15/32	1/32	-	-	-	7-5/8	-
5	-	-	-	-	-	-	40	6-3/4	1/4	11/32	1/32	7-5/8	-	-	-	-
-	5	5	5	5	-	-	41	7-1/8	5/16	15/32	1/32	-	8-1/4	8-1/2	-	-
-	-	-	-	-	-	5	42	7-1/2	1/2	25/32	1/16	-	-	-	-	9-1/2
6	-	-	-	-	-	-	43	7-5/8	1/4	11/32	1/32	8-5/8	-	-	-	-
-	-	-	-	-	5	-	44	7-5/8	5/16	15/32	1/32	-	-	-	9	-
-	6	6	6	6	-	-	45	8-5/16	5/16	15/32	1/32	-	9-1/2	9-1/2	-	-

Texas Flange

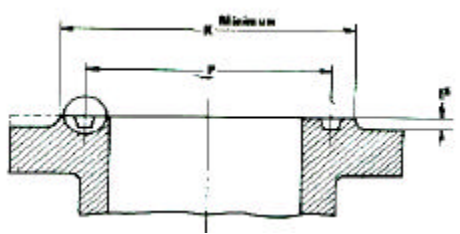
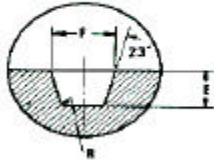
TEL:877-610-8924

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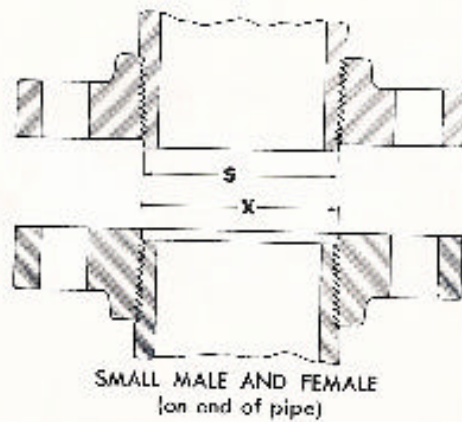
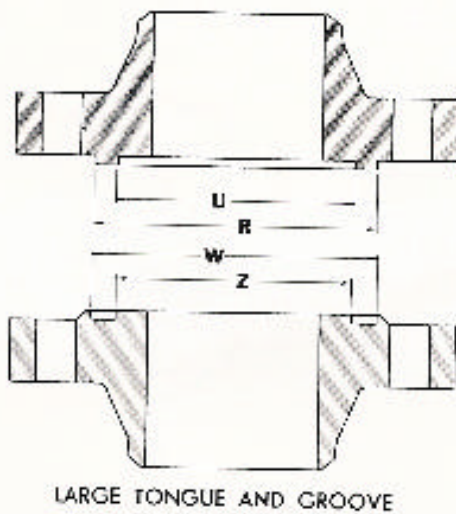
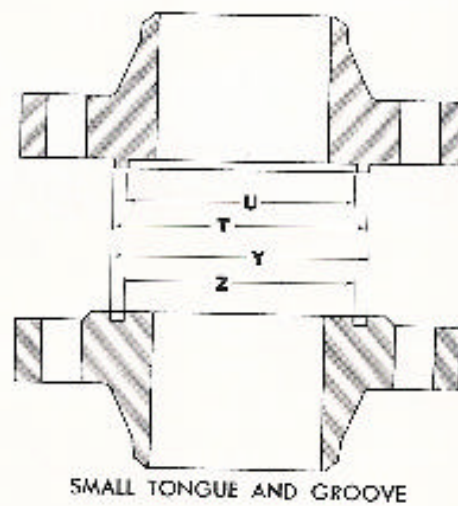
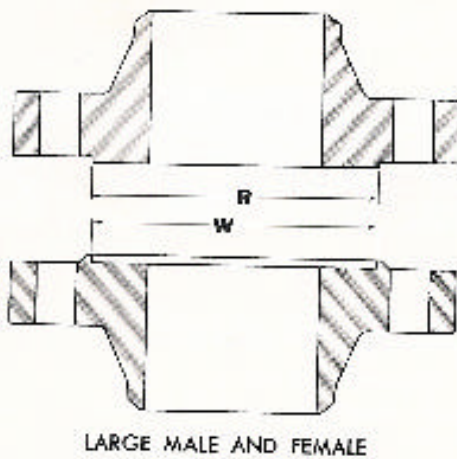
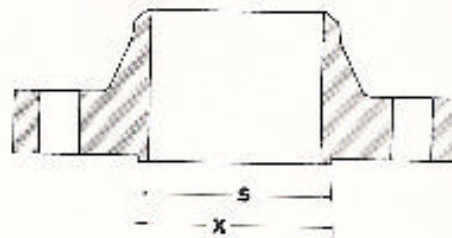
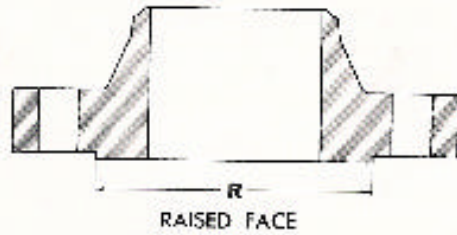
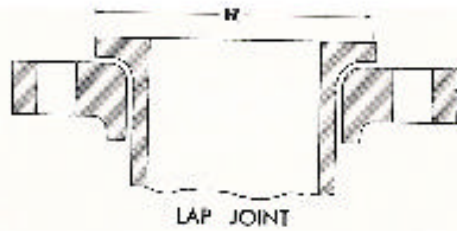
DIMENSIONS OF RING-JOINT FACINGS



DIMENSIONS IN INCHES

NOMINAL PIPE SIZE							GROOVE NUMBER	GROOVE DIMENSIONS				DIAMETER OF RAISED PORTION K				
150 PSI	300 PSI	400 PSI	600 PSI	900 PSI	1500 PSI	2500 PSI		PITCH DIAMETER	DEPTH	WIDTH	RADIUS AT BOTTOM	150 PSI	300 400 600 PSI	900 PSI	1500 PSI	2500 PSI
								P	E	F	R					
-	-	-	-	-	6	-	R46	8-5/16	3/8	17/32	1/16	-	-	-	9-3/4	-
-	-	-	-	-	-	6	47	9	1/2	25/32	1/16	-	-	-	-	11
8	-	-	-	-	-	-	48	9-3/4	1/4	11/32	1/32	10-3/4	-	-	-	-
-	8	8	8	8	-	-	49	10-5/8	5/16	15/32	1/32	-	11-7/8	12-1/8	-	-
-	-	-	-	-	8	-	50	10-5/8	7/16	21/32	1/16	-	-	-	12-1/2	-
-	-	-	-	-	-	8	51	11	9/16	29/32	1/16	-	-	-	-	13-3/8
10	-	-	-	-	-	-	52	12	1/4	11/32	1/32	13	-	-	-	-
-	10	10	10	10	-	-	53	12-3/4	5/16	15/32	1/32	-	14	14-1/4	-	-
-	-	-	-	-	10	-	54	12-3/4	7/16	21/32	1/16	-	-	-	14-5/8	-
-	-	-	-	-	-	10	55	13-1/2	11/16	13/16	3/32	-	-	-	-	16-3/4
12	-	-	-	-	-	-	56	15	1/4	11/32	1/32	16	-	-	-	-
-	12	12	12	12	-	-	57	15	5/16	15/32	1/32	-	16-1/4	16-1/2	-	-
-	-	-	-	-	12	-	58	15	9/16	29/32	1/16	-	-	-	17-1/4	-
14	-	-	-	-	-	-	59	15-5/8	1/4	11/32	1/32	16-3/4	-	-	-	-
-	-	-	-	-	-	12	60	16	11/16	1-5/16	3/32	-	-	-	-	19-1/2
-	14	14	14	-	-	-	61	16-1/2	5/16	15/32	1/32	-	18	-	-	-
-	-	-	-	14	-	-	62	16-1/2	7/16	21/32	1/16	-	-	18-3/8	-	-
-	-	-	-	-	14	-	63	16-1/2	5/8	1-1/16	3/32	-	-	-	19-1/4	-
16	-	-	-	-	-	-	64	17-7/8	1/4	11/32	1/32	19	-	-	-	-
-	16	16	16	-	-	-	65	18-1/2	5/16	15/32	1/32	-	20	-	-	-
-	-	-	-	16	-	-	66	18-1/2	7/16	21/32	1/16	-	-	20-5/8	-	-
18	-	-	-	-	16	-	67	18-1/2	11/16	1-3/16	3/32	-	-	-	21-1/2	-
-	-	-	-	-	-	-	68	20-3/8	1/4	11/32	1/32	21-1/2	-	-	-	-
-	18	18	18	-	-	-	69	21	5/16	15/32	1/32	-	22-5/8	-	-	-
-	-	-	-	18	-	-	70	21	1/2	25/32	1/16	-	-	23-3/8	-	-
-	-	-	-	-	18	-	71	21	11/16	1-3/16	3/32	-	-	-	24-1/8	-
20	-	20	-	-	-	-	72	22	1/4	11/32	1/32	23-1/2	-	-	-	-
-	20	-	20	-	-	-	73	23	3/8	17/32	1/16	-	25	-	-	-
-	-	-	-	20	-	-	74	23	1/2	25/32	1/16	-	-	25-1/2	-	-
-	-	-	-	-	20	-	75	23	11/16	1-5/16	3/32	-	-	-	26-1/2	-
24	-	-	-	-	-	-	76	26-1/2	1/4	11/32	1/32	28	-	-	-	-
-	24	24	24	-	-	-	77	27-1/4	7/16	21/32	1/16	-	29-1/2	-	-	-
-	-	-	-	24	-	-	78	27-1/4	5/8	1-1/16	3/32	-	-	30-3/8	-	-
-	-	-	-	-	24	-	79	27-1/4	13/16	17/16	3/32	-	-	-	31-1/4	-

Alternate Flange Facings



Texas Flange 877-610-8924

Alternate Flange Facings for 150, 300, 400, 600, 900, 1500 and 2500 Lb. Flanges

Outside Diameter				Outside Diameter				Height			
Nominal Size	Raised Face, Lap Joint, Large Male And Large Tongue R	Small Male (3) S	Small Tongue T	I.D. of Large and Small Tongue U	Large Female and Large Groove W	Small Female (3) X	Small Groove Y	I.D. of Large and Small Groove Z	Raised Face 150 and 300-Pound Standards(2)	Raised Face. Large and Small Male and Tongue 400, 600, 900, 1500 and 2500-Pound Standards (2)	Depth of Groove or Female
1/2	1.38	0.72	1.38	1.00	1.44	0.78	1.44	0.94	0.06	0.25	0.19
3/4	1.69	0.94	1.69	1.31	1.75	1.00	1.75	1.25	0.06	0.25	0.19
1	2.00	1.19	1.88	1.50	2.06	1.25	1.94	1.44	0.06	0.25	0.19
1 1/4	2.50	1.50	2.25	1.88	2.56	1.56	2.31	1.81	0.06	0.25	0.19
1 1/2	2.88	1.75	2.50	2.12	2.94	1.81	2.56	2.06	0.06	0.25	0.19
2	3.62	2.25	3.25	2.88	3.69	2.31	3.31	2.81	0.06	0.25	0.19
2 1/2	4.12	2.69	3.75	3.38	4.19	2.75	3.81	3.31	0.06	0.25	0.19
3	5.00	3.31	4.62	4.25	5.06	3.38	4.69	4.19	0.06	0.25	0.19
3 1/2	5.50	3.81	5.12	4.75	5.56	3.88	5.19	4.69	0.06	0.25	0.19
4	6.19	4.31	5.69	5.19	6.25	4.38	5.75	5.12	0.06	0.25	0.19
5	7.31	5.38	6.81	6.31	7.38	5.44	6.88	6.25	0.06	0.25	0.19
6	8.50	6.38	8.00	7.50	8.56	6.44	8.06	7.44	0.06	0.25	0.19
8	10.62	8.38	10.00	9.38	10.69	8.44	10.06	9.31	0.06	0.25	0.19
10	12.75	10.50	12.00	11.25	12.81	10.56	12.06	11.19	0.06	0.25	0.19
12	15.00	12.50	14.25	13.50	15.06	12.56	14.31	13.44	0.06	0.25	0.19
14	16.25	13.75	15.50	14.75	16.31	13.81	15.56	14.69	0.06	0.25	0.19
16	18.50	15.75	17.62	16.75	18.56	15.81	17.69	16.69	0.06	0.25	0.19
18	21.00	17.75	20.12	19.25	21.06	17.81	20.19	19.19	0.06	0.25	0.19
20	23.00	19.75	22.00	21.00	23.06	19.81	22.06	20.94	0.06	0.25	0.19
24	27.25	23.75	26.25	25.25	27.31	23.81	26.31	25.19	0.06	0.25	0.19

1. Regular facing for 150 and 300 Lb. Steel flanged fittings and flange standards is a 1/16 inch raised face included in the minimum flange thickness. A 1/16 inch raised face is also permitted on the 400, 600, 900, 1500, and 2500 Lb. Flange standards, but it must be added to the minimum flange thickness.
2. Regular facing for 400, 600, 900, 1500, and 2500 Lb. Flange standards is a ¼ inch raised face not included in minimum flange thickness dimensions.
3. Care should be taken in the use of joints of these dimensions, (they apply particularly on lines where the joint is made on the end of pipe) to insure that pipe used is thick enough to permit sufficient bearing surface to prevent crushing the gasket. Threaded companion flanges are furnished with plain face and are threaded with American Standard Locknut Thread.

Texas Flange 877-610-8924

ANSI Bolting Chart ½” – 4”

Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size									
			1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
150 Pound	Number		4	4	4	4	4	4	4	4	8	8
	Diameter		1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8
	Length of Stud Bolts	1 1/16 RF	2 1/2	2 1/2	2 3/4	2 3/4	3	3 1/4	3 1/2	3 3/4	3 3/4	3 3/4
		RTJ	-	-	3 1/4	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/4	4 1/4
	Ring Size	R	-	-	15	17	19	22	25	29	33	36
300 Pound	Number		4	4	4	4	4	8	8	8	8	8
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	3/4	3/4
	Length of Stud Bolts	1/16 RF	2 3/4	3	3 1/4	3 1/4	3 3/4	3 1/2	4	4 1/4	4 1/2	4 1/2
		RTJ	3 1/4	3 1/2	3 3/4	3 3/4	4 1/4	4 1/4	4 3/4	5	5 1/4	5 1/4
	Ring Size	R	11	13	16	18	20	23	26	31	34	37
		RX	-	-	-	-	20	23	26	31	34	37
400 Pound	Number		4	4	4	4	4	8	8	8	8	8
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8
	Length of Stud Bolts	1/4 RF	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 1/2
		RTJ	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	5	5 1/4	5 3/4	5 3/4
	Ring Size	R	11	13	16	18	20	23	26	31	34	37
		RX	-	-	-	-	20	23	26	31	34	37
600 Pound	Number		4	4	4	4	4	8	8	8	8	8
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8
	Length of Stud Bolts	1/4 RF	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 3/4
		RTJ	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	5	5 1/4	5 3/4	6
	Ring Size	R	11	13	16	18	20	23	26	31	34	37
		RX	-	-	-	-	20	23	26	31	34	37
900 Pound	Number		4	4	4	4	4	8	8	8	-	8
	Diameter		3/4	3/4	7/8	7/8	1	7/8	1	7/8	-	1 1/8
	Length of Stud Bolts	1/4 RF	4 1/4	4 1/2	5	5	5 1/2	5 3/4	6 1/4	5 3/4	-	6 3/4
		RTJ	4 1/4	4 1/2	5	5	5 1/2	6	6 1/2	6	-	7
	Ring Size	R	12	14	16	18	20	24	27	31	-	37
		RX	-	-	-	-	20	24	27	31	-	37

1500 Pound	Number		4	4	4	4	4	8	8	8	-	8
	Diameter		3/4	3/4	7/8	-	1	7/8	1	1 1/8	-	1 1/4
	Length of Stud Bolts	1/4 RF	4 1/4	4 1/2	5	5	5 1/2	5 3/4	6 1/4	7	-	7 3/4
		RTJ	4 1/4	4 1/2	5	5	5 1/2	6	6 1/2	7 1/4	-	8
	Ring Size	R	12	14	16	18	20	24	27	35	-	39
		RX	-	-	-	-	20	24	27	35	-	39
2500 Pound	Number		4	4	4	4	4	8	8	8	-	8
	Diameter		3/4	3/4	7/8	1	1 1/8	1	1 1/8	1 1/4	-	1 1/2
	Length of Stud Bolts	1/4 RF	5	5	5 1/2	6	6 3/4	7	7 3/4	8 3/4	-	10
		RTJ	5	5	5 1/2	6 1/4	7	7 1/4	8	9	-	10 1/2
	Ring Size	R	13	16	18	21	23	26	28	32	-	38
		RX	-	-	-	21	23	26	28	32	-	38

ANSI Bolting Chart 5” – 24”

Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size									
			5	6	8	10	12	14	16	18	20	24
150 Pound	Number		8	8	8	12	12	12	16	16	20	20
	Diameter		3/4	3/4'	3/4	7/8'	7/8	1	1	1 1/8	1 1/8	1 1/4
	Length of Stud Bolts	1/16 RF	4	4	4 1/4	4 3/4	4 3/4	5 1/4	5 1/2	6	6 1/4	7
		RTJ	4 1/2	4 1/2	4 1/2	5 1/4	5 1/4	5 3/4	6	6 1/2	6 3/4	7 1/2
	Ring Size	R	40	43	48	52	56	59	64	68	72	76
300 Pound	Number		8	12	12	16	16	20	20	24	24	24
	Diameter		3/4	3/4	7/8	1	1 1/8	1 1/8	1 1/4	1 1/4	1 1/4	1 1/2
	Length of Stud Bolts	1/4 RF	4 3/4	5	5 1/2	6 1/4	6 3/4	7	7 1/2	7 3/4	8 1/4	9 1/4
		RTJ	5 1/2	5 3/4	6 1/4	7	7 1/2	7 3/4	8 1/4	8 1/2	9	10 1/4
	Ring Size	R	41	45	49	53	57	61	65	69	73	77
		RX	41	45	49	53	57	61	65	69	73	77
400 Pound	Number		8	12	12	16	16	20	20	24	24	24
	Diameter		7/8	7/8	1	1 1/8	1 1/4	1 1/4	1 3/8	1 3/8	1 1/2	1 3/4
	Length of Stud Bolts	1/4 RF	5 3/4	6	6 3/4	7 1/2	8	8 1/4	8 3/4	9	9 3/4	10 3/4
		RTJ	6	6 1/4	7	7 3/4	8 1/4	8 1/2	9	9 1/4	10	11 1/4
	Ring Size	R	41	45	49	53	57	61	65	69	73	77
		RX	41	45	49	53	57	61	65	69	73	77

600 Pound	Number		8	12	12	16	20	20	20	20	24	24
	Diameter		1	1	1 1/8	1 1/4	1 1/4	1 3/8	1 1/2	1 5/8	1 5/8	1 7/8
	Length of Stud Bolts	1/4 RF	6 1/2	6 3/4	7 3/4	8 1/2	8 3/4	9 1/4	10	10 3/4	11 1/2	13
		RTJ	6 3/4	7	8	8 3/4	9	9 1/2	10 1/4	11	11 3/4	13 1/2
	Ring Size	R	41	45	49	53	57	61	65	69	73	77
		RX	41	45	49	53	57	61	65	69	73	77
900 Pound	Number		8	12	12	16	20	20	20	20	20	20
	Diameter		1 1/4	1 1/8	1 3/8	1 3/8	1 3/8	1 1/2	1 5/8	1 7/8	2	2 1/2
	Length of Stud Bolts	1/4 RF	7 1/2	7 3/4	8 3/4	9 1/4	10	10 3/4	11 1/4	13	13 3/4	17 1/4
		RTJ	7 3/4	7 3/4	9	9 1/2	10 1/4	11 1/4	11 3/4	13 1/2	14 1/4	18
	Ring Size	R	41	45	49	53	57	62	66	70	74	78
		RX	41	45	49	53	57	62	66	70	74	78
1500 Pound	Number		8	12	12	12	12	16	16	16	16	16
	Diameter		1 1/2	1 3/8	1 5/8	1 7/8	2	2 1/4	2 1/2	2 3/4	3	3 1/2
	Length of Stud Bolts	1/4 RF	9 3/4	10 1/4	11 1/2	13 1/2	15	16 1/4	17 3/4	19 1/2	21 1/4	24 1/4
		RTJ	10	10 1/2	12	13 3/4	15 1/2	17	18 3/4	20 1/2	22 1/2	25 1/2
	Ring Size	R	44	46	50	54	58	63	67	71	75	79
		RX	44	46	50	54	58	63	67	71	75	79
2500 Pound	Number		8	8	12	12	12	-	-	-	-	-
	Diameter		1 3/4	2	2	2 1/2	2 3/4	-	-	-	-	-
	Length of Stud Bolts	1/4 RF	11 3/4	13 3/4	15 1/4	19 1/4	21 1/4	-	-	-	-	-
		RTJ	12 1/2	14 1/4	15 3/4	20 1/4	22 1/4	-	-	-	-	-
	Ring Size	R	42	47	51	55	60	-	-	-	-	-
		RX	42	47	51	55	60	-	-	-	-	-