



Texas Flange

Product Catalog

800-826-3801

630-627-0642 Fax



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TEXAS FLANGE CATALOG

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- ANSI B16.5 - 150, 300, 400, 600, 900, 1500, 2500, Weights
- 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
- AWWA C207-Class 1B, 2D, 3D, 4E, 5E, 6F
- Studding Outlets - 150, 300, 600, 900, 1500, 2500
- Wall Thickness and Bore Chart

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We look forward to hearing from you.



Pressure - Temperature Ratings

For Steel Pipe Flanges and Flanged Fittings
American National Standard ANSI B16.5 - 1988

CLASS	150 lb.	300 lb.	400 lb.	600 lb.	900 lb.	1500 lb.	2500 lb.
HYDROSTATIC TEST PRESSURE, PSIG	450	1125	1500	2225	3350	5575	9275
TEMPERATURE, F	MAXIMUM ALLOWABLE NON-SHOCK PRESSURE PSIG						
-20 to 100	285	740	990	1480	2220	3705	6170
200	260	675	900	1350	2025	3375	5625
300	230	655	875	1315	1970	3280	5470
400	200	635	845	1270	1900	3170	5280
500	170	600	800	1200	1795	2995	4990
600	140	550	730	1095	1640	2735	4560
650	125	535	715	1075	1610	2685	4475
700	110	535	710	1065	1600	2665	4440
750	95	505	670	1010	1510	2520	4200
800	80	410	550	825	1235	2060	3430
850	65	270	355	535	805	1340	2230
900	50	170	230	345	515	860	1430
950	35	105	140	205	310	515	860
1000	20	50	70	105	155	260	430

Ratings apply to materials.

SA-105^{1,2} SA-515-70² SA-516-70² SA-181-70^{1,2} SA-350-LF2 SA-537-C1.1³ SA-216-WCB²

NOTES:

1. For service temperatures above 850 F it is recommended that killed steels containing not less than 0.10% residual silicon be used.
2. Upon prolonged exposure to temperatures above 800 F, the carbide phase of carbon steel may be converted to graphite.
3. The material shall not be used in thickness above 2-1/2 in.

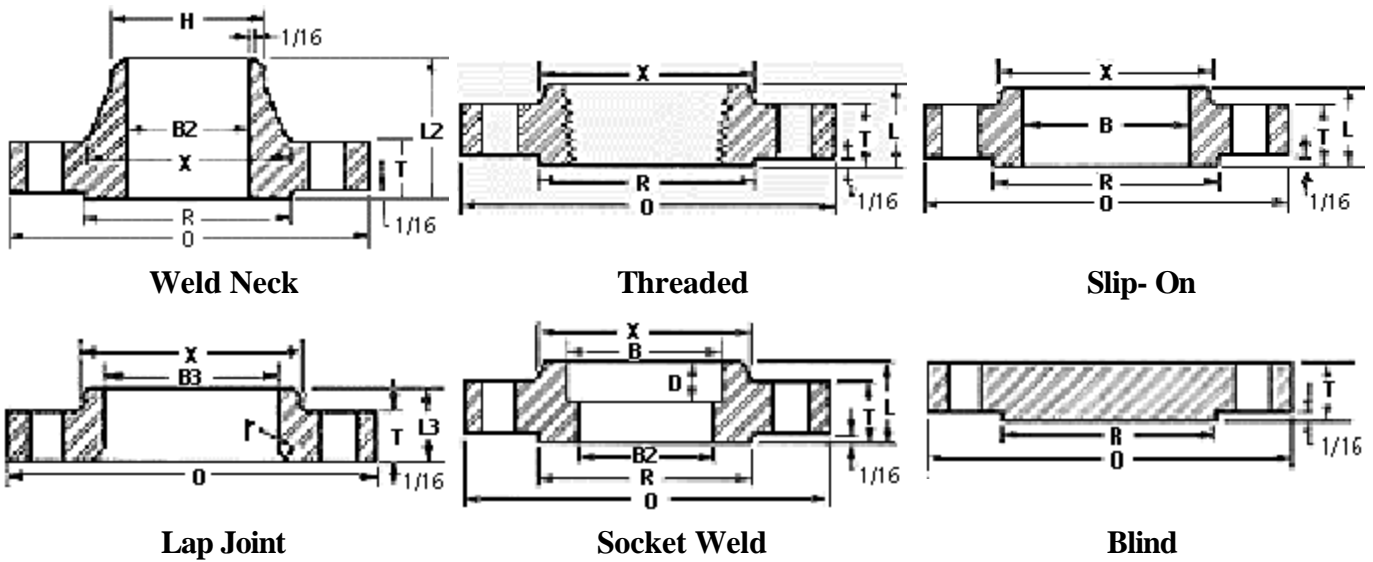
Flanges of ANSI B16.5 shall not be used for higher ratings except where it is justified by the design methods of the Code.

Ratings are maximum allowable non-shock working pressures expressed as gage pressure, at the tabulated temperatures and may be interpolated between temperatures shown.

Temperatures are those on the inside of the pressure-containing shell of the flange. In general, it is the same as that of the contained material.

THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. BEFORE USING ANY OF THIS DATA FOR ANY PURPOSE OTHER THAN FOR GENERAL INFORMATION, IT SHOULD BE REVIEWED AND CERTIFIED BY A QUALIFIED ENGINEER.

ANSI B16.5 Class 150 Forged Flanges

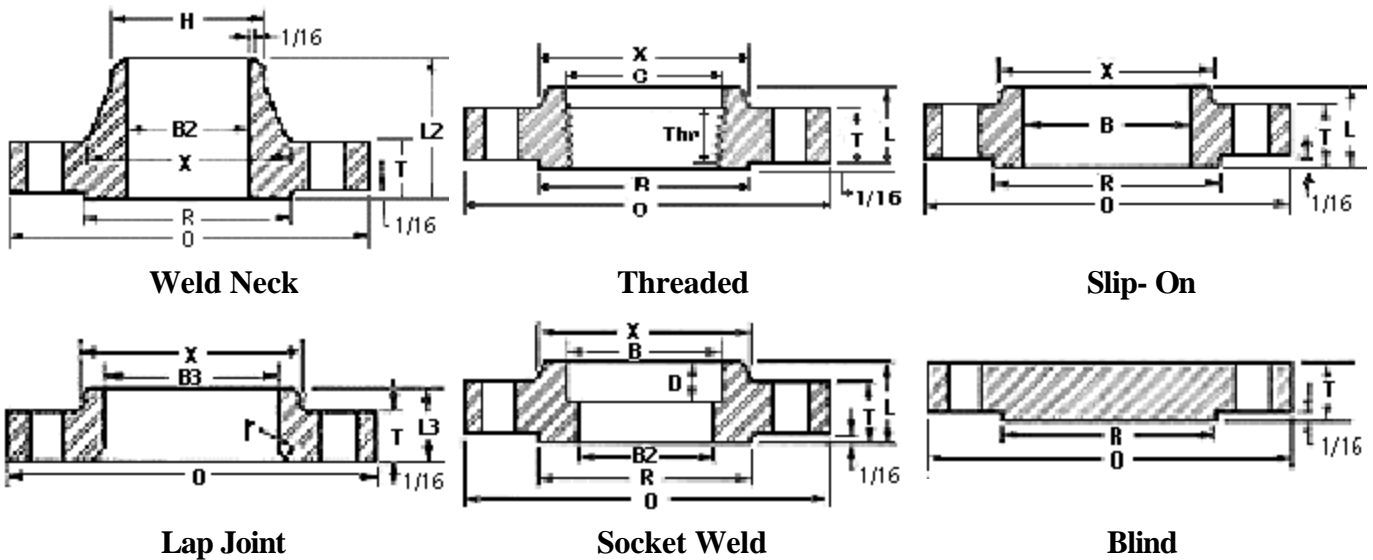


Nom. Pipe Size	Lap Joint				Socket Weld						Blind				
	O	T ₁	R	X	No.2/Dia. of Holes	Bolt Circle Dia.	L ₂ ¹	H	B ₂ ³	L	B	r	L ₃ ⁴	B ₃	D
1/2	3.5	.44	1.38	1.19	4-0.62	2.38	1.88	.84	.62	.62	.88	.12	.62	.9	.38
3/4	3.88	.5	1.69	1.5	4-0.62	2.75	2.06	1.05	.82	.62	1.09	.12	.62	1.11	.44
1	4.25	.56	2	1.94	4-0.62	3.12	2.19	1.32	1.05	.69	1.36	.12	.69	1.38	.5
1 1/4	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
1 1/2	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
2 1/2	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
3 1/2	8.5	.94	5.5	4.81	8-0.75	7	2.81	4	3.55	1.25	40.7	.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



Nom. Pipe Size	O	T ₁	R	X	No.2 & Dia. of Holes	Bolt Circle Dia.	L ₂₁	H	B ₂₃	L	B	r	L ₃₄	B ₃	D	C	Thr
1/2	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
3/4	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
1 1/4	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
1 1/2	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
2 1/2	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
3 1/2	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.

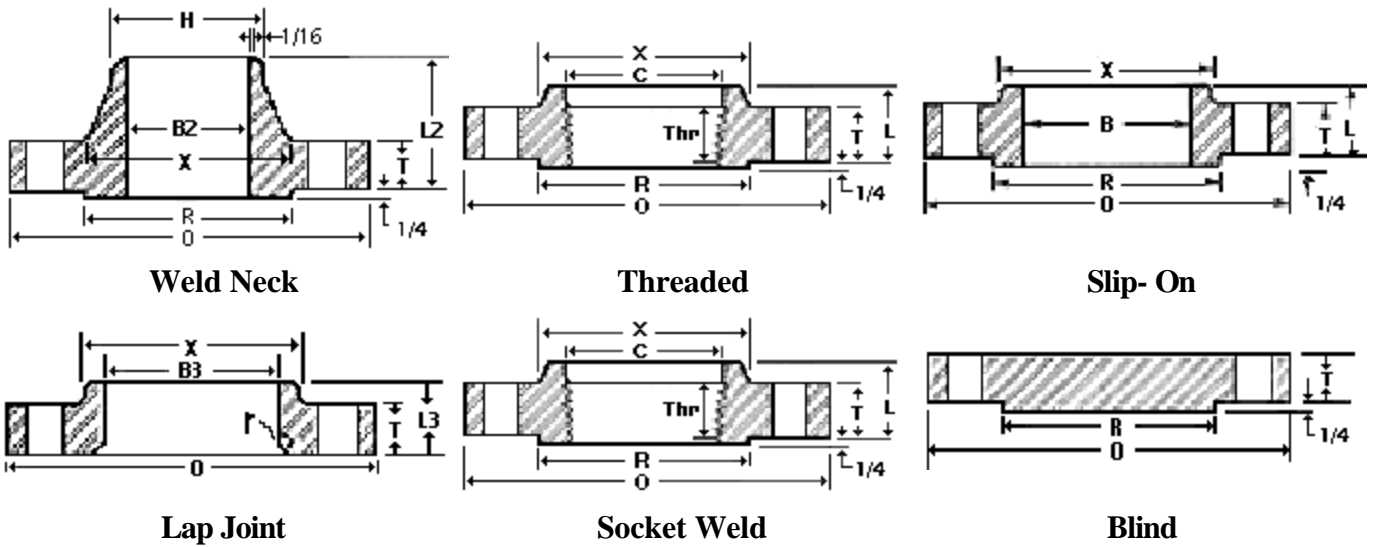
1- 1/16 in. raised face included in dimensions T, L and L₂.

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.

ANSI B16.5 Class 400 Forged Flanges



Nom. Pipe Size	O	T ₁	R	X	No.2 & Dia. of Holes	Bolt Circle Dia.	L ₂	H	B ₂	L	B	r	L ₃	B ₃	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 p e c i f i e d	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		b y	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	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	P u r c h a s e r		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			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.

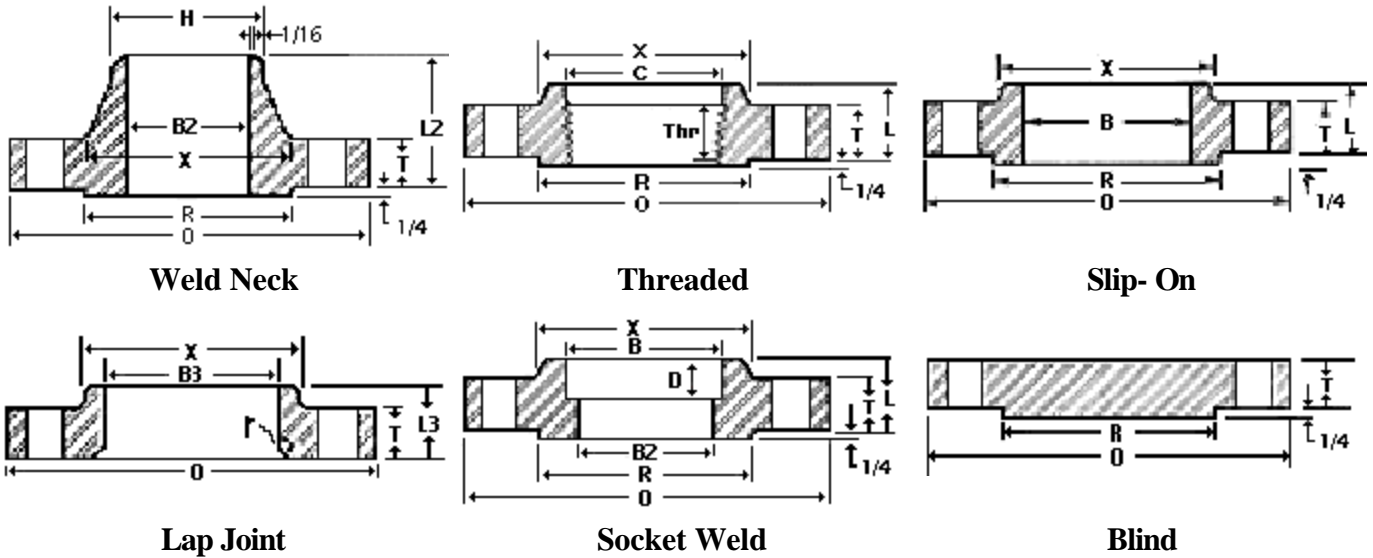
Sizes NPS 1/2 through 3-1/2 are same as Class 600 flanges.

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



Nom. Pipe Size	Lap Joint						Socket Weld				Blind						
	O	T ₁	R	X	No. 2 and Dia. of Bolt Holes	Bolt Circle Dia.	L ₂₁	H	B ₂	L	B	r	L ₃	B ₃	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-.075	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

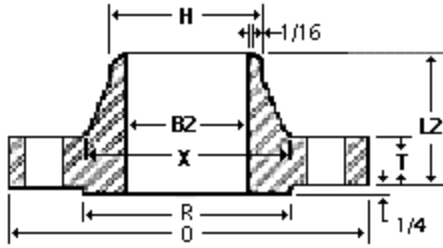
Dimensions in inches.

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

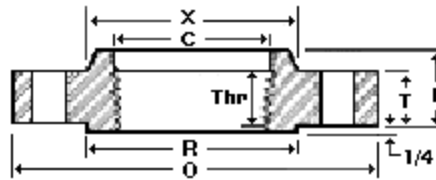
1- 1/4 in. raised face not included in dimensions T, L and L₂.

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

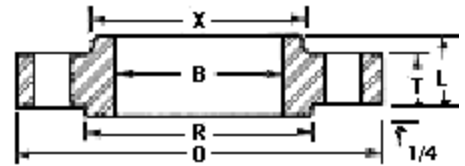
ANSI B16.5 Class 900 Forged Flanges



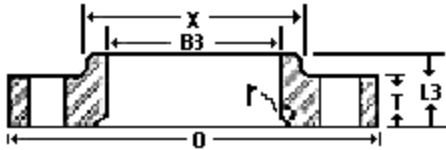
Weld Neck



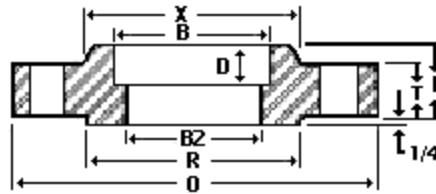
Threaded



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		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	3.00	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		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

Specified by purchaser

Dimensions in inches.

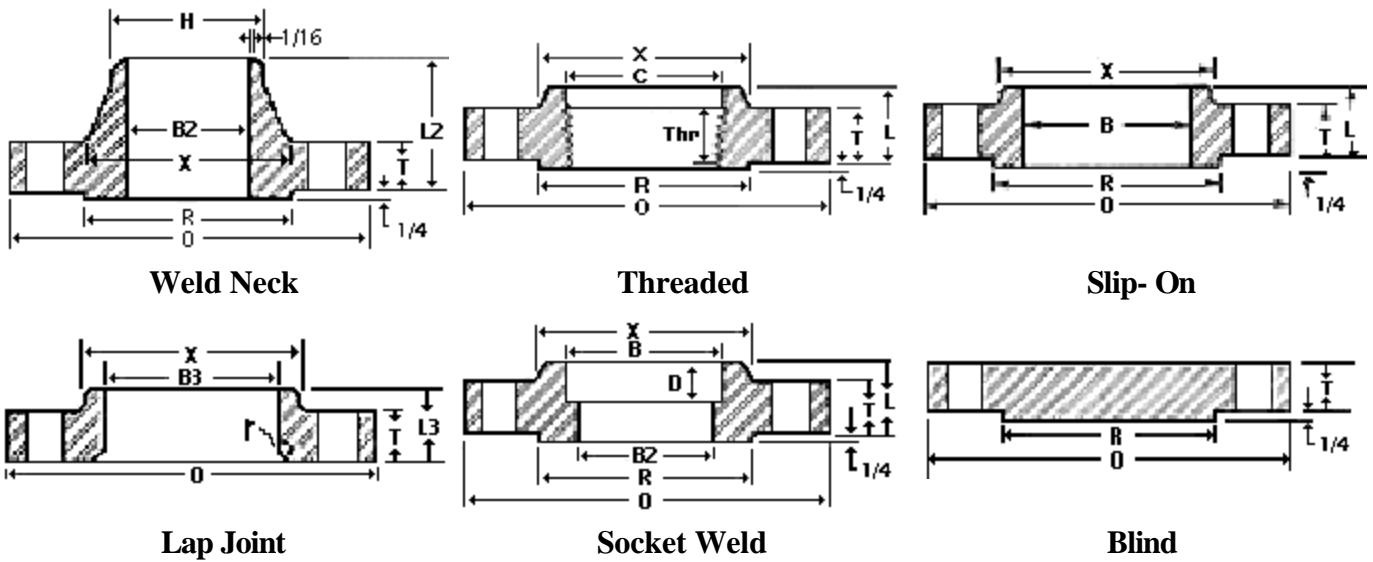
Sizes NPS 1/2 through 3-1/2 are same as Class 1500 flanges.

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.

Texas Flange 800-826-3801

ANSI B16.5 Class 1500 Forged Flanges

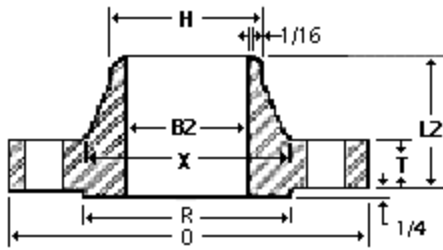


Nom. Pipe Size	O	T1	R	X	No.2 & Dia. of Bolt Holes	Bolt Circle Dia.	L21	H	B2	L	B	r	L3	D	B3	Thr	Specified by Purchaser
1/2"	4.75	0.88	1.38	1.50	4-0.88	3.25	2.38	0.84		1.25	0.88	0.13	1.25	0.38	0.90	0.88	
3/4	5.13	1.00	1.69	1.75	4-0.88	3.50	2.75	1.05		1.38	1.09	0.13	1.38	0.44	1.11	1.00	
1	5.88	1.13	2.00	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	-	

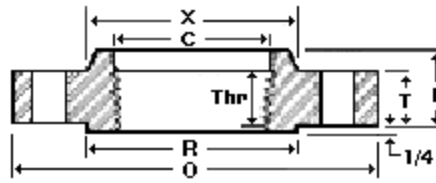
1- 1/4 in. raised face not included in dimensions T, L and L2.

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

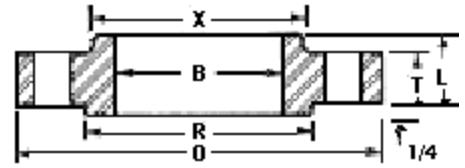
ANSI B16.5 Class 2500 Forged Flanges



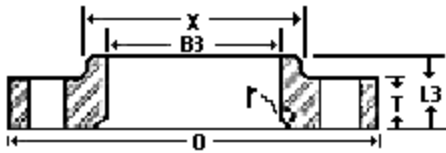
Weld Neck



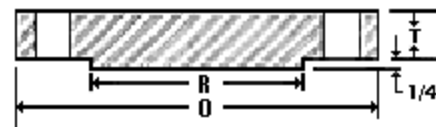
Threaded



Slip-On



Lap Joint



Blind

Nom. Pipe Size	O	T1	R	X	No.2 & Dia. of Bolt Holes	Bolt Circle Dia.	L21	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.

Texas Flange 800-826-3801

ANSI B16.5 Forged Steel Flanges

Approximate Weight (L.B.S.)

Pressure Class	Nom. Size Pipe	Weld Neck	Slip-On	Thd	Lap Joint	Blind	Socket Weld	Pressure Class	Nom. Size Pipe	Weld Neck	Slip-On	Thd	Lap Joint	Blind	Socket Weld
150	1/2	2	1	1	1	2	2	300	8	69	56	56	55	79	
	3/4	2	1.5	1.5	1.5	2	2		10	100	77	80	88	122	
	1	2.5	2	2	2	2	2		12	142	113	110	139	183	
	1-1/4	2.5	2.5	2.5	2.5	3	3		14	206	159	164	184	241	
	1-1/2	4	3	3	3	3	3		16	249	210	220	234	315	
	2	6	5	5	5	4	5		18	306	253	280	305	414	
	2-1/2	10	8	8	8	7	7		20	369	307	325	375	515	
	3	11.5	9	10	9	9	8		24	579	490	490	530	800	
	3-1/2	12	11	12	11	13									
	4	16.5	13	13	12	17		400	4	30	24	24	22	33	
	5	21	15	15	13	20			5	39	31	31	29	44	
	6	26	17	19.5	18	27			6	49	39	39	37	61	
	8	42	28	30	28	47			8	78	63	63	59	100	
	10	54	40	41	36	67			10	110	91	91	95	155	
	12	88	61	65	60	123			12	160	129	129	152	226	
	14	114	83	85	77	139			14	233	191	191	210	310	
	16	142	106	93	104	187			16	294	253	253	280	398	
	18	165	109	120	146	217			18	360	310	310	345	502	
	20	197	148	155	159	283			20	445	378	378	420	621	
	24	268	204	210	195	415			24	640	539	539	615	936	
300	1/2	2	1.5	1.5	1.5	2	3		600	1/2	3	2	2	2	2
	3/4	3	2.5	2.5	2.5	3	3	3/4		3.5	3	3	3	3	3
	1	4	3	3	3	4	3	1		4	3.5	3.5	3.5	4	4
	1-1/4	5	4.5	4.5	4.5	6	4	1-1/4		5.5	4.5	4.5	4.5	6	6
	1-1/2	7	6.5	6.5	6.5	7	6	1-1/2		8	6.5	6.5	6.5	8	7
	2	8	7	7	7	8	7	2		10	8	8	8	10	9
	2-1/2	12	10	10	10	12	10	2-1/2		14	12	12	11	15	13
	3	18	13	14	14.5	16	13	3		18	15	15	14	20	16
	3-1/2	20	16	16	16	21		3-1/2		26	21	21	20	29	
	4	26.5	23.5	24	24	28		4		37	33	33	31	41	
	5	36	29	31	26	37		5		68	63	63	63	68	
	6	45	36	36	38	48		6		73	80	80	78	86	

Pressure Class	Nom. Size Pipe	Weld Neck	Slip-On	Thd	Lap Joint	Blind	Socket Weld	Pressure Class	Nom. Size Pipe	Weld Neck	Slip-On	Thd	Lap Joint	Blind	Socket Weld	
600	8	112	97	97	112	139		1500	2-1/2	36	36	36	29	35	38	
	10	189	177	177	195	231			3	48		48	38	48		
	12	226	215	215	240	295			4	69		73	75	73		
	14	347	259	259	290	378			5	132		132	138	142		
	16	481	366	366	400	527			6	164		164	170	159		
	18	555	476	476	469	665			8	273		258	286	302		
	20	690	612	612	604	855			10	454		436	485	507		
	24	977	876	876	866	1175			12	690		667	749	775		
									14							
900	3	29	31	31	25	32			16	WEIGHT UPON APPLICATION						
	4	51	53	53	51	54			18							
	5	86	83	83	81	87			20							
	6	110	108	108	105	113			24							
	8	187	172	172	188	197										
	10	268	245	245	277	290		2500	1/2	8		7	7	7		
	12	372	326	326	371	413			3/4	9		9	8	10		
	14	562	380	380	397	494			1	13		12	12	12		
	16	685	459	459	488	619			1-1/4	20		18	17	18		
	18	924	647	647	670	880			1-1/2	28		25	24	25		
20	1164	792	792	868	1107		2		42		38	37	39			
24	2107	1480	1480	1659	2099		2-1/2		52		55	53	56			
							3		94		83	80	86			
							4		146		127	122	133			
							5		244		210	204	223			
1500	1/2	7	6	6	6	4	6.25	6	378		323	314	345			
	3/4	7	6	6	6	6	6.25	8	576		485	471	533			
	1	8.5	7.5	7.5	7.5	9	8	10	1068		925	897	1025			
	1-1/4	10	10	10	10	10	11	12	1608		1300	1262	1464			
	1-1/2	14	14	14	14	14	15									
	2	24	22	22	21	25	24									

Weights of Class 400 flanges, sizes NPS 1/2 through 3-1/2 are same as Class 600.
Weights of Class 900 flanges, sizes NPS 1/2 through 3-1/2 are same as Class 1500.

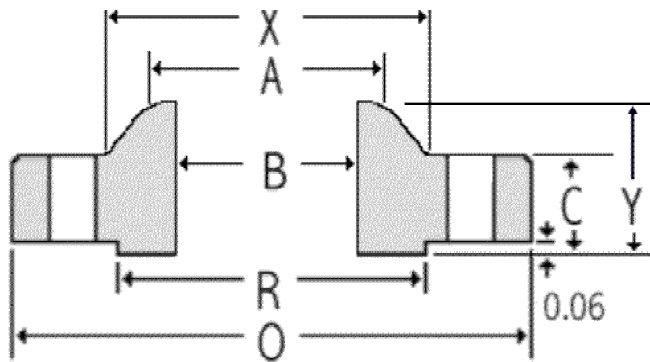
Texas Flange 800-826-3801

A Quick Note on B16.47

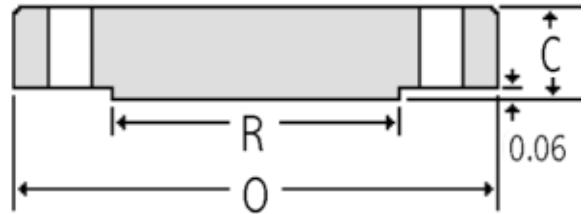
ASME has incorporated the MSS-SP44 specification into B16.47 Series A and the API 605 Specification into B16.47 series B. They have also added Blinds to these two specs. You may note that these specs include only Weld Necks and Blinds. For Slip-On's over 24" you must refer to either Industry Standard (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

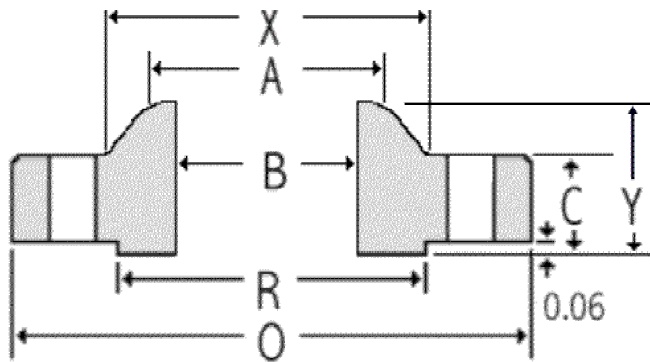
Nom Size	THICKNESS					Drilling						Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	34.25	2.69	2.69	29.50	26.62	To be specified by Purchaser.	4.75	26.00	31.75	1.38	24	300	702
28	36.50	2.81	2.81	31.50	28.62		4.94	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.

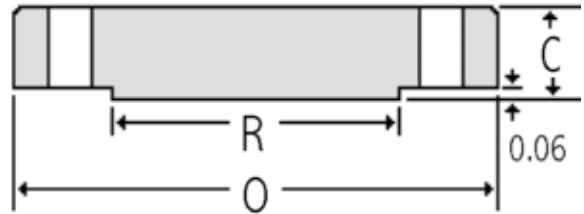
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 300 Weld Neck & Blind



Weld Neck



Blind

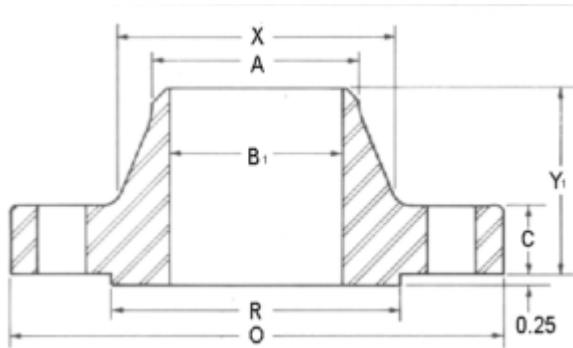
Nom Size	THICKNESS					Drilling						Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	38.25	3.12	3.31	29.50	28.38	To be specified by Purchaser.	7.25	26.00	34.50	1.75	28	605	1078
28	40.75	3.38	3.56	31.50	30.50		7.75	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.

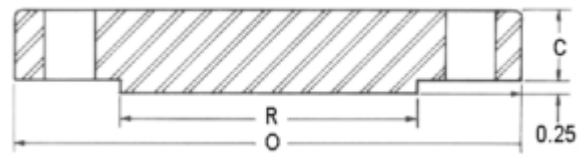
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 400 Weld Neck & Blind



Weld Neck



Blind

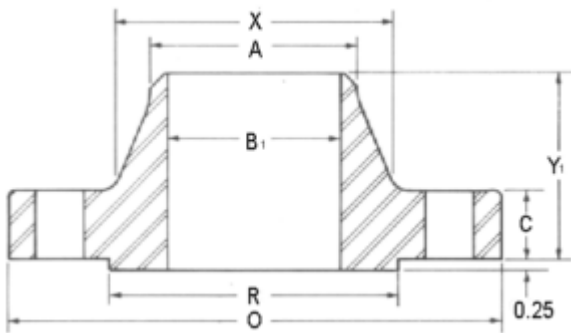
Nom Size	THICKNESS						Drilling				Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	38.25	3.50	3.88	7.62	28.62	26.00	29.50	34.50	28	1.88	650	1263
28	40.75	3.75	4.12	8.12	30.81	28.00	31.50	37.00	28	2.00	785	1522
30	43.00	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.

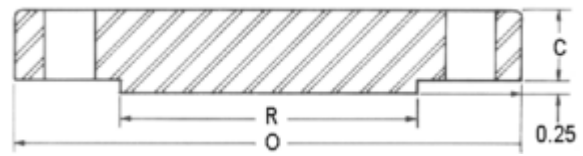
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 600 Weld Neck & Blind



Weld Neck



Blind

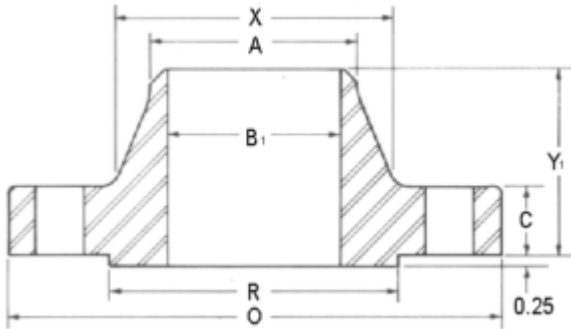
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	40.00	4.25	4.94	8.75	29.44	26.00	29.50	36.00	28	2.00	940	1759
28	42.25	4.38	5.19	9.25	31.62	28.00	31.50	38.00	28	2.12	1060	2061
30	44.50	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.

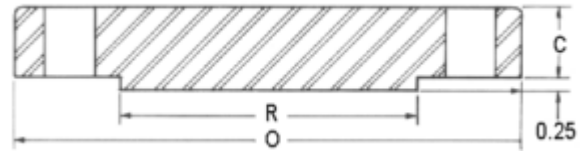
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series A Class 900 Weld Neck & Blind



Weld Neck



Blind

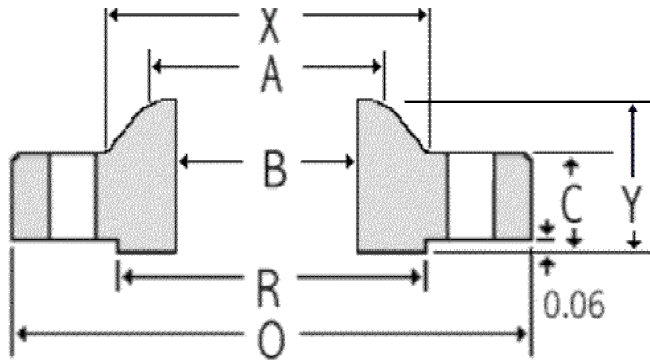
Nom Size	THICKNESS			LTH	Dia at Base	Dia Bevel	OD RF	Drilling			Weight	
	OD	Weld Neck	Blind					Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C					Y	X	A	R	
26	42.75	5.50	6.31	11.25	30.50	26.00	29.50	37.50	20	2.88	1525	2566
28	46.00	5.62	6.75	11.75	32.75	28.00	31.50	40.25	20	3.12	1810	3178
30	48.50	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.

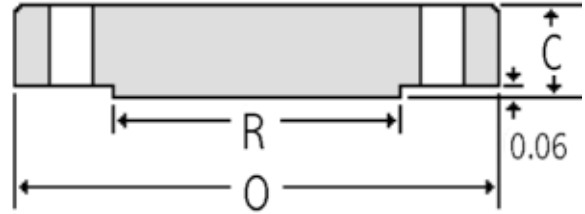
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 75 Weld Neck & Blind



Weld Neck



Blind

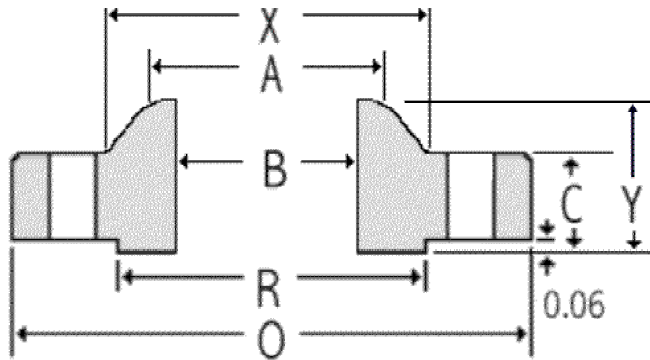
Nom Size	THICKNESS					Drilling						Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	30.00	1.31	1.31	27.75	26.62	To be specified by Purchaser.	2.31	26.06	28.50	0.75	36	80	255
28	32.00	1.31	1.31	29.75	28.62		2.44	28.06	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.

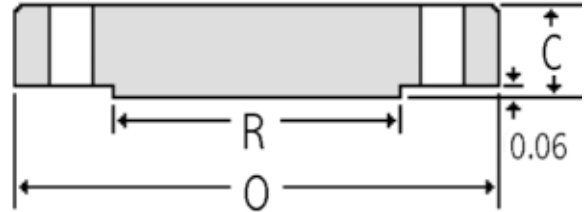
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 150 Weld Neck & Blind



Weld Neck



Blind

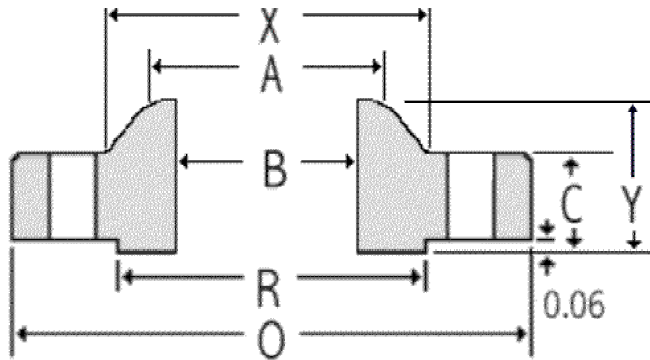
Nom Size	THICKNESS					Bore	LTH	Dia Bevel	Drilling			Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base				Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X				B	Y	A		
26	30.94	1.62	1.75	28.00	26.94	To be specified by Purchaser.	3.50	26.06	29.31	0.88	36	120	373
28	32.94	1.75	1.88	30.00	28.94		3.75	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.

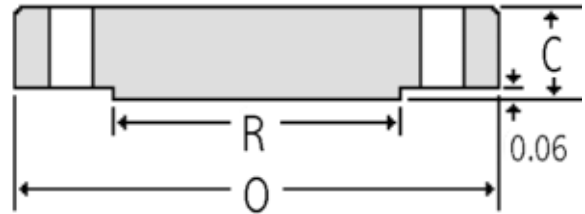
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 300 Weld Neck & Blind



Weld Neck



Blind

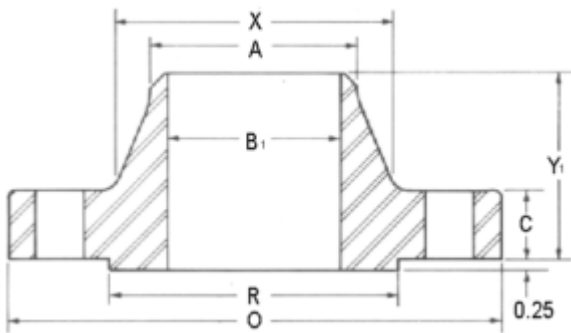
Nom Size	THICKNESS					Drilling						Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	34.12	3.50	3.50	29.00	27.62	To be specified by Purchaser.	5.69	26.19	31.62	1.38	32	400	907
28	36.25	3.50	3.50	31.00	29.75		5.88	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.

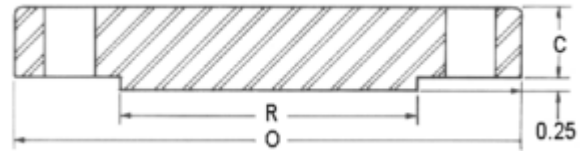
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 400 Weld Neck & Blind



Weld Neck



Blind

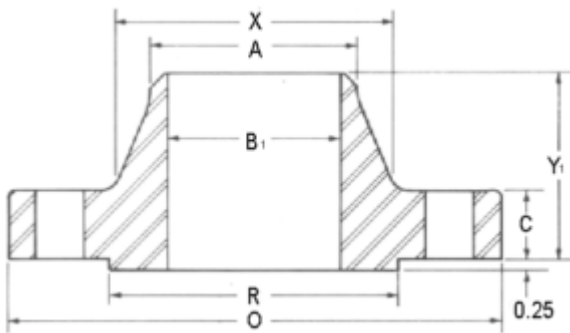
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	33.50	3.50	3.50	5.88	27.12	26.00	28.00	30.75	28	1.50	360	874
28	36.00	3.75	3.75	6.25	29.12	28.00	30.00	33.00	24	1.62	450	1081
30	38.25	4.00	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.

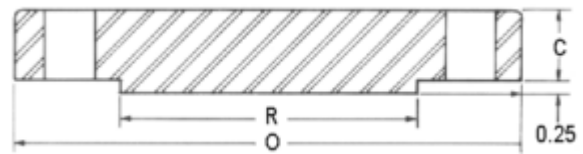
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 600 Weld Neck & Blind



Weld Neck



Blind

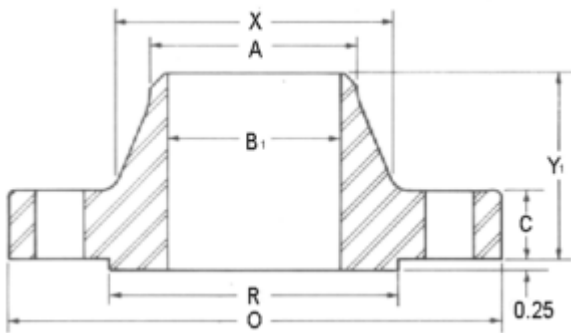
Nom Size	THICKNESS							Drilling			Weight	
	OD	Weld Neck	Blind	LTH	Dia at Base	Dia Bevel	OD RF	Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C	Y	X	A	R					
26	35.00	4.38	4.38	7.12	27.50	26.00	28.62	31.75	28	1.75	550	1194
28	37.50	4.56	4.56	7.50	29.62	28.00	30.88	34.00	28	1.88	650	1427
30	40.25	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.

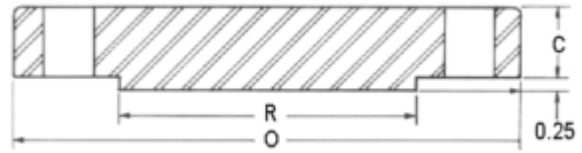
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

B16.47 Series B Class 900 Weld Neck & Blind



Weld Neck



Blind

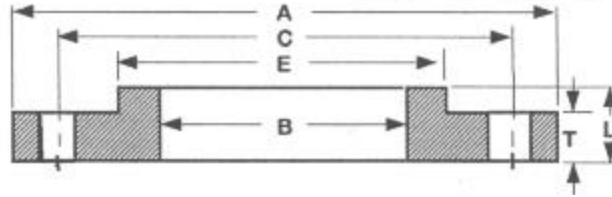
Nom Size	THICKNESS			LTH	Dia at Base	Dia Bevel	OD RF	Drilling			Weight	
	OD	Weld Neck	Blind					Bolt Circle	# Holes	Dia Holes	Weld Neck	Blind
	O	C	C					Y	X	A	R	
26	40.25	5.31	6.06	10.19	29.25	26.00	30.00	35.50	20	2.62	1050	2184
28	43.50	5.81	6.56	10.88	31.38	28.00	32.25	38.25	20	2.88	1520	2762
30	46.50	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



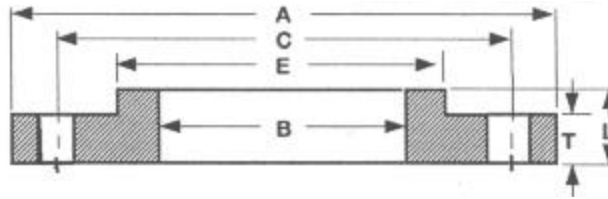
Class 125LW* (175-150 psi)

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

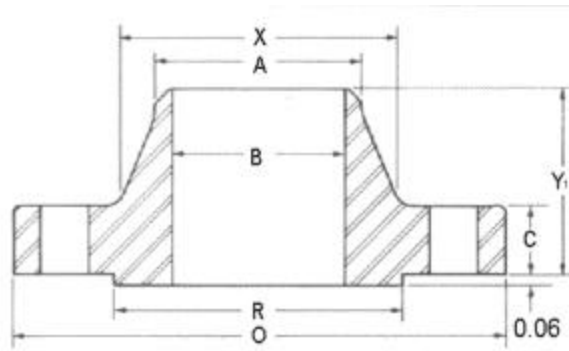


Class 125 SO* (275psi)

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



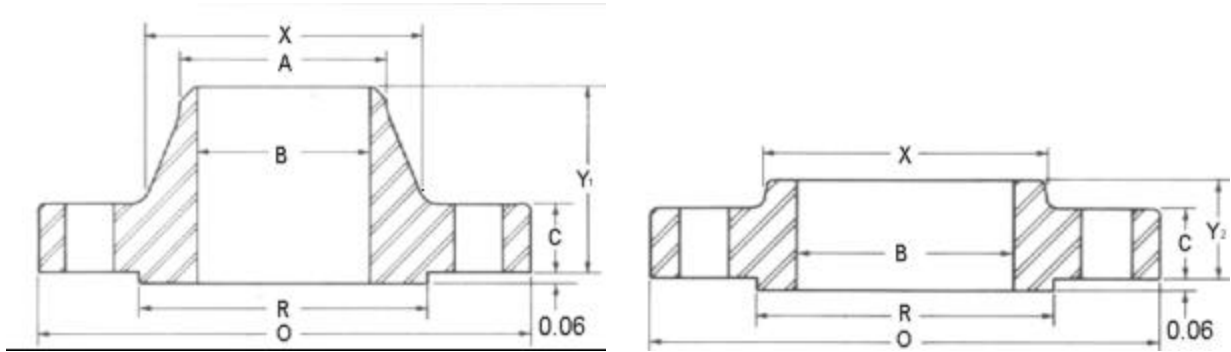
Class 125 WN

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)



Matches B16.1 Class 250 Valves and Pumps

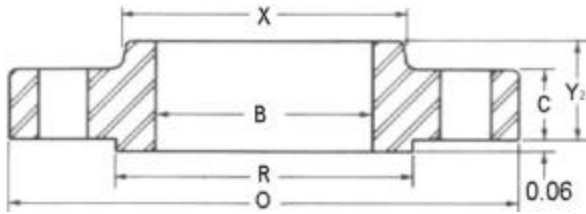
Nominal Pipe Size	OD of Flange	ID of Flange	Thick	LTH		Hub Dia	Drilling Template			Weights		
				WN	SO		Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	Weld Neck	Slip-on	Blind
				(Y)	(Y)							
	(O)	(B)	(C)	(Y)	(Y)	(X)						
26	38.25	26.25	2.81	5.81	4.75	30.50	28	1.875	34.50	534	531	484
28	40.75	28.25	2.94	5.94	5.00	33.00	28	1.875	37.00	629	637	565
30	43.00	30.25	3.00	6.00	5.00	35.25	28	1.875	39.25	702	707	624
32	45.25	32.25	3.12	6.12	5.12	37.50	28	1.875	41.50	793	801	700
34	47.50	34.25	3.25	6.25	5.25	39.50	28	1.875	43.50	882	889	784
36	50.00	36.25	3.38	6.38	5.38	41.50	32	2.125	46.00	969	970	893
38	52.25	38.25	3.44	6.44	5.50	43.50	32	2.125	48.00	1057	1062	971
40	54.25	40.25	3.56	6.56	5.50	45.75	36	2.125	50.25	1158	1172	1049
42	57.00	42.25	3.69	6.94	5.62	47.75	36	2.125	52.75	1318	1288	1203
44	59.25	44.25	3.75	7.00	5.75	49.75	36	2.125	55.00	1423	1397	1297
46	61.50	46.25	3.88	7.12	5.88	51.75	40	2.125	57.25	1536	1510	1420
48	65.00	48.25	4.00	7.25	6.00	54.00	40	2.125	60.75	1824	1797	1690

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

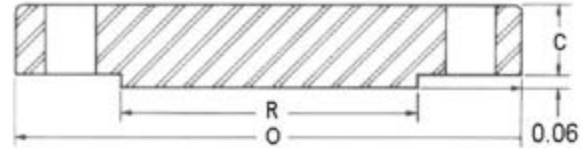
*AWWA Pressure rating at atmospheric temperature is 300 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 250 cast iron pipe and flanged fittings.

Texas Flange 800-826-3801

Industry Standard CLASS 75 Slip-On & Blind



Slip-On



Blind

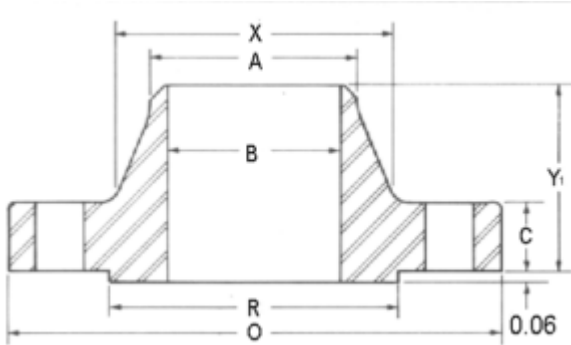
Nom Size	THICKNESS							Drilling			Weight	
	OD	Slip-On	Blind	OD RF	Dia at Base	Bore	LTH	Bolt Circle	Dia Holes	# Holes	Slip-On	Blind
	O	C	C	R	X	B	Y					
26	33.00	1.25	1.25	30.00	28.50	26.25	2.25	31.00	1.00	32	120	290
28	35.00	1.25	1.38	32.00	30.50	28.25	2.25	33.00	1.00	36	140	360
30	37.00	1.25	1.38	34.00	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.

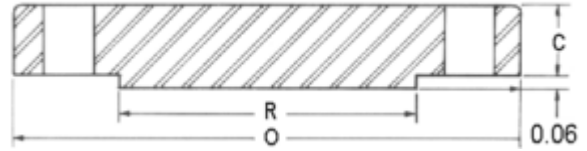
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

Industry Standard CLASS 75 Weld Neck & Blind



Weld Neck



Blind

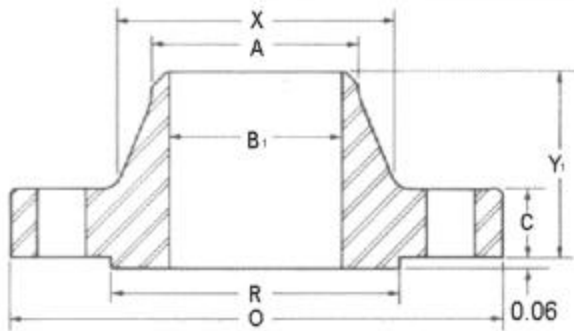
Nom Size	THICKNESS								Drilling			Weight	
	OD	Weld Neck	Blind	OD RF	Dia at Base	Bore	LTH	Dia Bevel	Bolt Circle	Dia Holes	# Holes	Weld Neck	Blind
	O	C	C	R	X	B	Y	A					
26	31.50	1.15	1.25	28.63	27.13	To be specified by Purchaser.	3.00	To be determined by design requirements.	29.63	1.00	32	98	265
28	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.

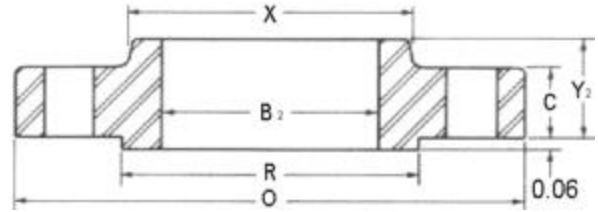
Note: Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

Industry Standard Class 175



Weld Neck



Slip – On

Nom Size	Thickness (C)						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			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		

Continued on next page

Class 175 continued from previous page

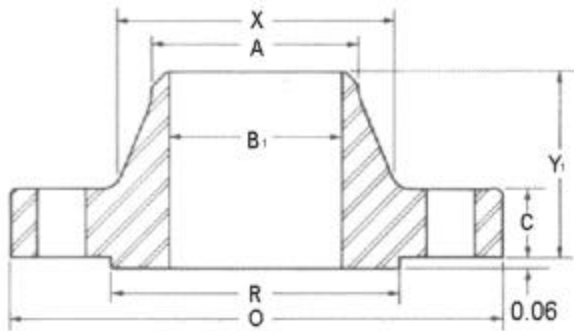
Nom Size	Drilling			Approx. Weight		
	BC Dia.	Dia. of Holes	# of Holes	Weld Neck	Slip On	Blind
26	29.88	0.88	28	120	105	405
28	31.88	0.88	28	130	115	490
30	34.13	0.88	36	150	130	590
32	36.13	0.88	36	160	140	700
34	38.38	1.00	36	195	200	840
36	40.38	1.00	36	205	210	970
38	42.38	1.00	36	245	250	1125
40	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.

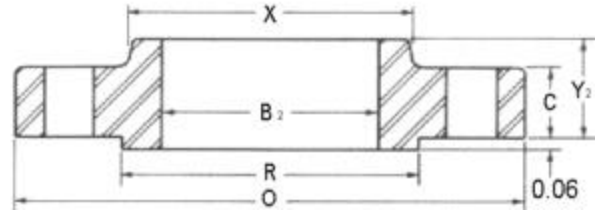
Texas Flange 800-826-3801

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			A
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.

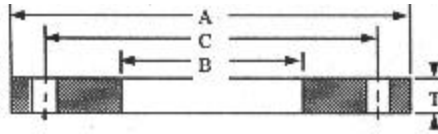
Larger sizes as well as intermediate sizes can be furnished.

Texas Flange 800-826-3801

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Formally Table 1 Class B

Table 2 Class B (Blinds from table 7)



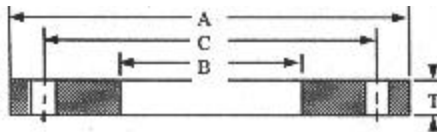
AWWA standard steel-ring flanges, Class B* (86 psi)

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 (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	0.625	8	0.875	8.50	9	13
6	11.00	6.72	0.688	0.688	8	0.875	9.50	11	18
8	13.50	8.72	0.688	0.688	8	0.875	11.75	15	27
10	16.00	10.88	0.688	0.688	12	1.000	14.25	19	37
12	19.00	12.88	0.688	0.752	12	1.000	17.00	28	58
14	21.00	14.19	0.688	0.835	12	1.125	18.75	34	79
16	23.50	16.19	0.688	0.941	16	1.125	21.25	41	111
18	25.00	18.19	0.688	1.013	16	1.250	22.75	41	135
20	27.50	20.19	0.688	1.108	20	1.250	25.00	49	179
22	29.50	22.19	0.750		20	1.375	27.25	57	
24	32.00	24.19	0.750	1.275	20	1.375	29.50	67	280
26	34.25	26.19	0.812		24	1.375	31.75	80	
28	36.50	28.19	0.875		28	1.375	34.00	94	
30	38.75	30.19	0.875	1.530	28	1.375	36.00	105	493
32	41.75	32.19	0.935		28	1.625	38.50	132	
34	43.75	34.19	0.935		32	1.625	40.50	137	
36	46.00	36.19	1.000	1.834	32	1.625	42.75	161	829
38	48.75	38.19	1.000		32	1.625	45.25	185	
40	50.75	40.19	1.000		36	1.625	47.25	193	
42	53.00	42.19	1.125	2.084	36	1.625	49.50	234	1258
44	55.25	44.19	1.125		40	1.625	51.75	249	
46	57.25	46.19	1.125		40	1.625	53.75	260	
48	59.50	48.19	1.250	2.341	44	1.625	56.00	306	1783
50	61.75	50.19	1.250		44	1.875	58.25	317	
52	64.00	52.19	1.250		44	1.875	60.50	339	
54	66.25	54.19	1.375	2.634	44	1.875	62.75	397	2482
60	73.00	60.19	1.500	2.892	52	1.875	69.25	508	3311
66	80.00	66.19	1.625	3.139	52	1.875	76.00	664	4342
72	86.50	72.19	1.750	3.399	60	1.875	82.50	802	5499
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)



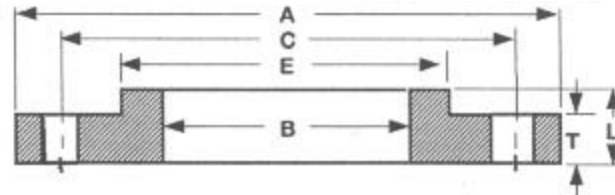
AWWA standard steel-ring flanges, Class D* (175-150psi)

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		8	0.875	8.50	9	
6	11.00	6.72	0.688	0.692	8	0.875	9.50	11	18
8	13.50	8.72	0.688	0.805	8	0.875	11.75	15	32
10	16.00	10.88	0.688	0.947	12	1.000	14.25	19	51
12	19.00	12.88	0.812	1.110	12	1.000	17.00	33	86
14	21.00	14.19	0.933	1.127	12	1.125	18.75	47	107
16	23.50	16.19	1.000	1.258	16	1.125	21.25	60	149
18	25.00	18.19	1.062	1.326	16	1.250	22.75	64	177
20	27.50	20.19	1.125	1.442	20	1.250	25.00	79	233
22	29.50	22.19	1.188		20	1.375	27.25	90	
24	32.00	24.19	1.250	1.657	20	1.375	29.50	112	364
26	34.25	26.19	1.312		24	1.375	31.75	129	
28	36.50	28.19	1.312		28	1.375	34.00	141	
30	38.75	30.19	1.375	2.003	28	1.375	36.00	164	646
32	41.75	32.19	1.500		28	1.625	38.50	211	
34	43.75	34.19	1.500		32	1.625	40.50	220	
36	46.00	36.19	1.625	2.369	32	1.625	42.75	261	1071
38	48.75	38.19	1.625		32	1.625	45.25	301	
40	50.75	40.19	1.625		36	1.625	47.25	313	
42	53.00	42.19	1.750	2.725	36	1.625	49.50	364	1645
44	55.25	44.19	1.750		40	1.625	51.75	387	
46	57.25	46.19	1.750		40	1.625	53.75	404	
48	59.50	48.19	1.875	3.067	44	1.625	56.00	460	2337
50	61.75	50.19	2.000		44	1.875	58.25	507	
52	64.00	52.19	2.000		44	1.875	60.50	542	
54	66.25	54.19	2.125	3.431	44	1.875	62.75	614	3233
60	73.00	60.19	2.250	3.774	52	1.875	69.25	763	4321
66	80.00	66.19	2.500	4.132	52	1.875	76.00	1021	5716
72	86.50	72.19	2.625	4.476	60	1.875	82.50	1203	7242
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 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)



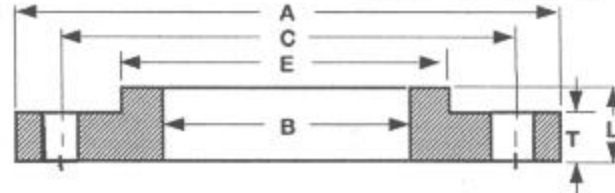
AWWA standard steel-hub flanges, Class D* (175-150 psi)

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.

Formally Table 3 Class E

Table 4 Class E (C-207-94)

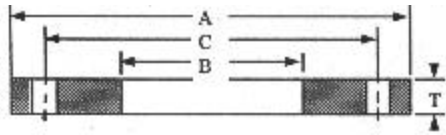


AWWA standard steel-hub flanges, Class E* (275psi)

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



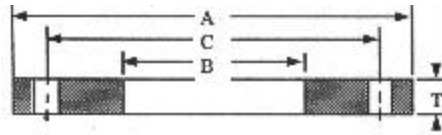
AWWA standard steel-ring flanges, Class E* (275psi)

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

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	1.125	1.125	8	0.750	7.50	14	19
5	10.00	5.66	1.188	1.188	8	0.875	8.50	16	25
6	11.00	6.72	1.313	1.313	8	0.875	9.50	20	34
8	13.50	8.72	1.500	1.500	8	0.875	11.75	33	59
10	16.00	10.88	1.563	1.563	12	1.000	14.25	44	85
12	19.00	12.88	1.750	1.750	12	1.000	17.00	71	136
14	21.00	14.19	1.875	1.875	12	1.125	18.75	94	178
16	23.50	16.19	2.000	2.000	16	1.125	21.25	120	237
18	25.00	18.19	2.125	2.125	16	1.250	22.75	127	284
20	27.50	20.19	2.375	2.375	20	1.250	25.00	168	383
22	29.50	22.19	2.500		20	1.375	27.25	189	
24	32.00	24.19	2.625	2.625	20	1.375	29.50	234	576
26	34.25	26.19	2.750		24	1.375	31.75	270	
28	36.50	28.19	2.750		28	1.375	34.00	297	
30	38.75	30.19	2.875	2.875	28	1.375	36.00	344	927
32	41.75	32.19	3.000		28	1.625	38.50	422	
34	43.75	34.19	3.000		32	1.625	40.50	441	
36	46.00	36.19	3.125	3.344	32	1.625	42.75	502	1512
38	48.75	38.19	3.125		32	1.625	45.25	580	
40	50.75	40.19	3.250		36	1.625	47.25	626	
42	53.00	42.19	3.375	3.789	36	1.625	49.50	701	2288
44	55.25	44.19	3.375		40	1.625	51.75	747	
46	57.25	46.19	3.438		40	1.625	53.75	794	
48	59.50	48.19	3.500	4.246	44	1.625	56.00	858	3235
50	61.75	50.19	3.500		44	1.875	58.25	887	
52	64.00	52.19	3.625		44	1.875	60.50	982	
54	66.25	54.19	3.750	4.776	44	1.875	62.75	1083	4500
60	73.00	60.19	3.875	5.236	52	1.875	69.25	1313	5995
66	80.00	66.19	4.250	5.675	52	1.875	76.00	1736	7850
72	86.50	72.19	4.375	6.137	60	1.875	82.50	2005	9929
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)

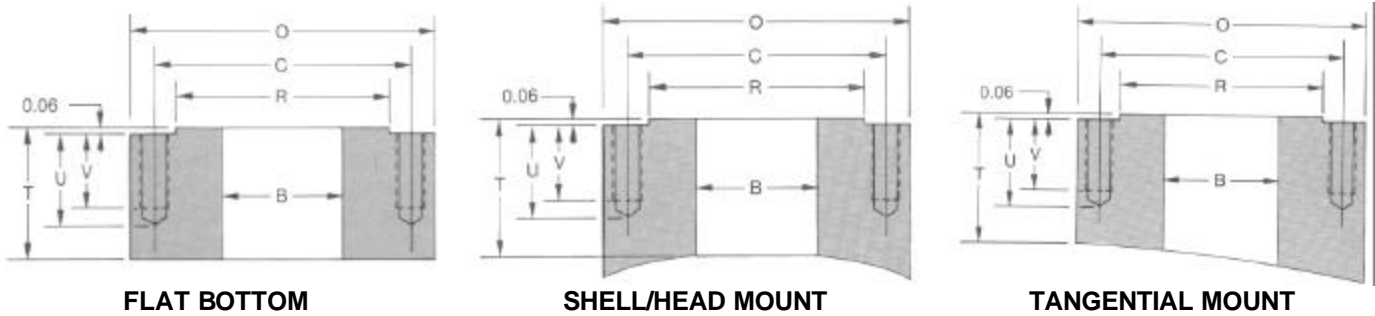
Nominal Pipe Size	OD of Flange	ID of Flange	Thickness of Flange (T)		Drilling Template			Weights	
			Slip-On	Blind	Number of Bolt Holes	Diam. of Bolt Holes	Diam. of Bolt Circle	Slip-on	Blind
	(A)	(B)					(C)		
4	10.00	4.57	1.13	1.125	8	0.875	7.88	18	23
5	11.00	5.66	1.21		8	0.875	9.25	22	
6	12.50	6.73	1.31	1.316	12	0.875	10.62	30	43
8	15.00	8.73	1.31	1.316	12	1.000	13.00	40	62
10	17.50	10.88	1.50	1.534	16	1.125	15.25	56	98
12	20.50	12.88	1.63	1.730	16	1.250	17.75	83	152
14	23.00	14.19	1.94	1.938	20	1.250	20.25	128	215
16	25.50	16.19	2.14	2.139	20	1.375	22.50	167	291
18	28.00	18.19	2.25	2.294	24	1.375	24.75	204	377
20	30.50	20.19	2.33	2.401	24	1.375	27.00	247	473
22	33.00	22.19	2.50		24	1.375	29.25	307	
24	36.00	24.19	2.69	2.799	24	1.625	32.00	388	768
26	38.25	26.25	3.00		28	1.875	34.50	451	
28	40.75	28.25	3.13		28	1.875	37.00	532	
30	43.00	30.25	3.15	3.419	28	1.875	39.25	586	1332
32	45.25	32.25	3.25		28	1.875	41.50	657	
34	47.50	34.25	3.38		28	1.875	43.50	741	
36	50.00	36.25	3.46	4.017	32	2.125	46.00	802	2105
38	52.25	38.25	3.50		32	2.125	48.00	874	
40	54.25	40.25	3.63		36	2.125	50.25	937	
42	57.00	42.25	3.81	4.450	36	2.125	52.75	1103	3056
44	59.25	44.25	4.00		36	2.125	55.00	1237	
46	61.50	46.25	4.13		40	2.125	57.25	1344	
48	65.00	48.25	4.50	4.991	40	2.125	60.75	1718	4491

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 B16.2 class 250 cast iron pipe and flanged fittings.

Texas Flange 800-826-3801

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	11/8	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.

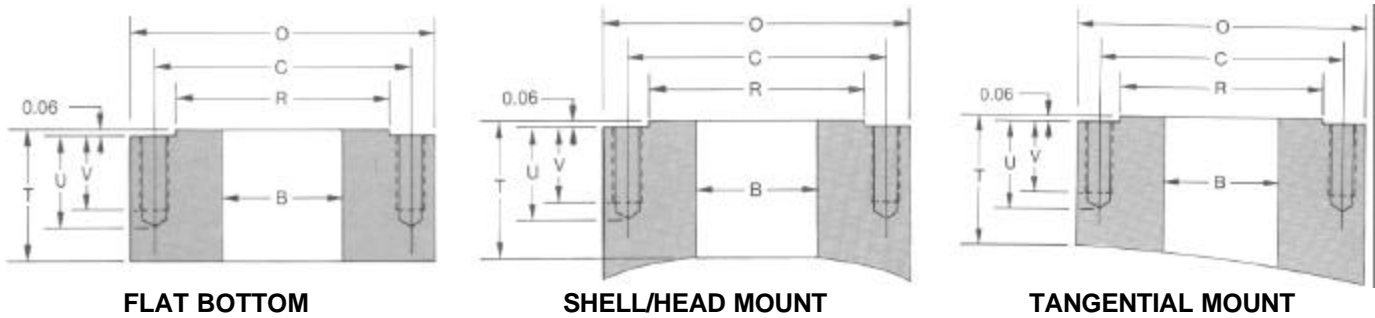
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi.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



FLAT BOTTOM

SHELL/HEAD MOUNT

TANGENTIAL MOUNT

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.

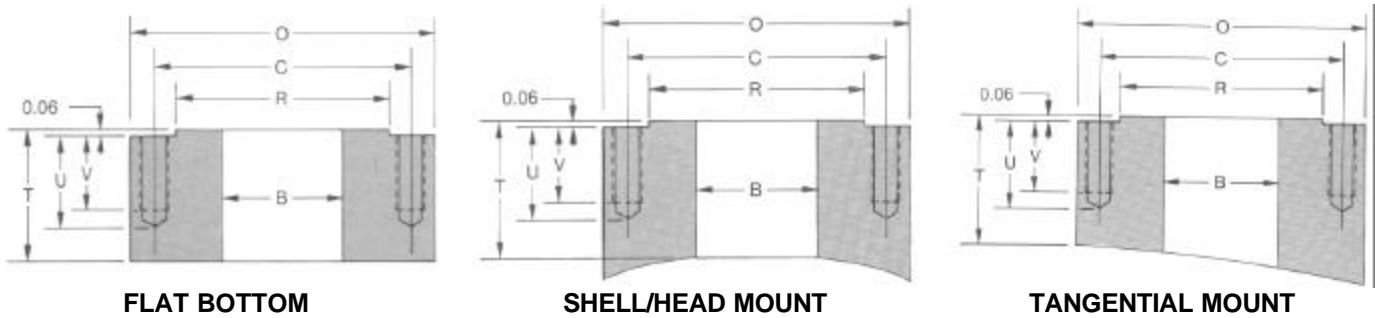
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi.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

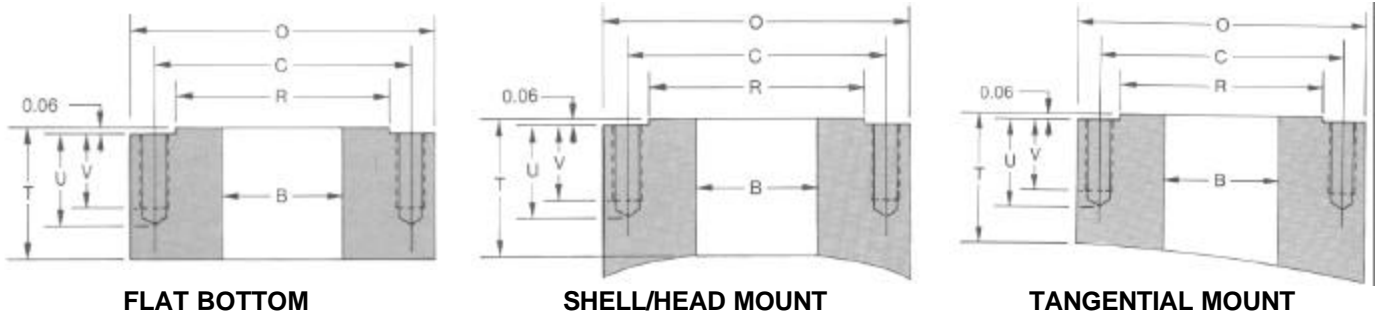
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi.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



FLAT BOTTOM

SHELL/HEAD MOUNT

TANGENTIAL MOUNT

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.

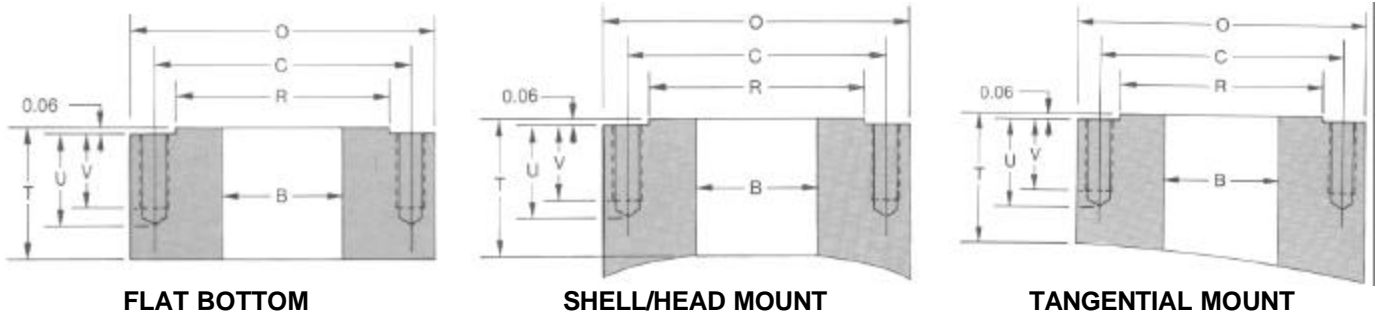
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi.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

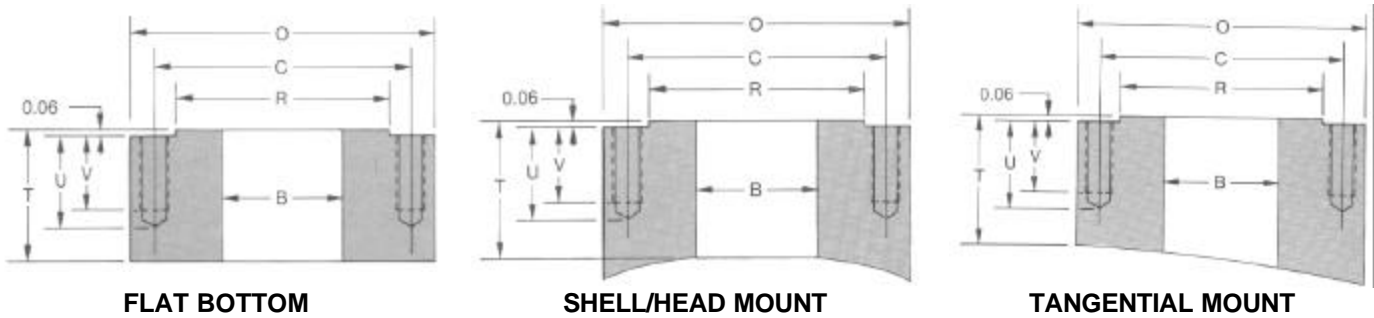
Drilling and Tapping: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is in accordance with ASME Section VIII Division I Para. UG-43(g) for a design temperature not to exceed 650°F, a base metal stress of 17,500 psi, and a stud stress of 25,000 psi.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



FLAT BOTTOM

SHELL/HEAD MOUNT

TANGENTIAL MOUNT

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

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 Hy	Sch 80	Sch 100	Sch 120	Sch 140	Sch 160	XX Hy	
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...