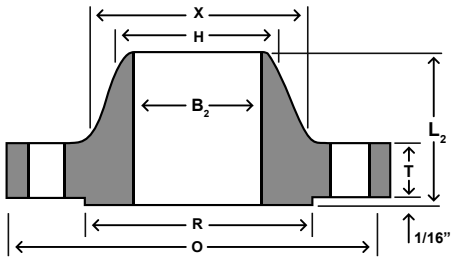
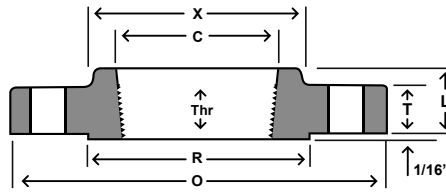


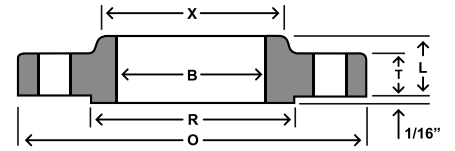
# ANSI B16.5 Class 150 Forged Flanges



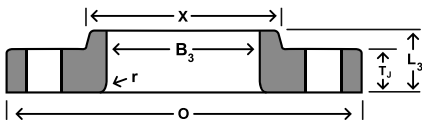
WELD NECK



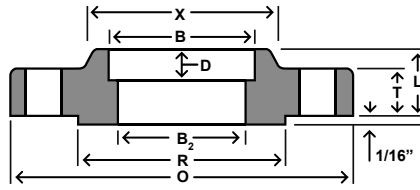
THREADED



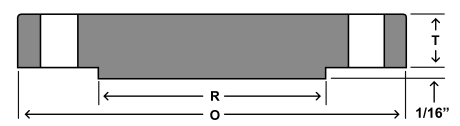
SLIP-ON



LAP JOINT



SOCKET WELD



BLIND

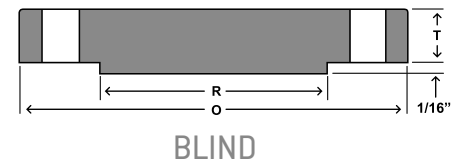
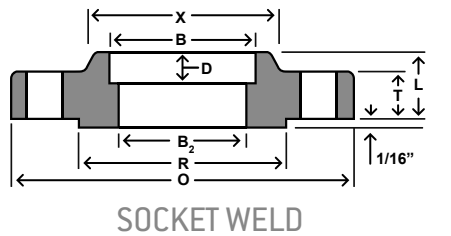
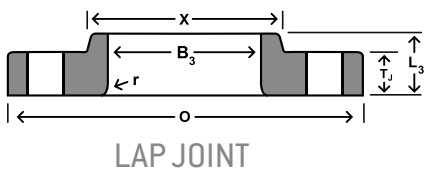
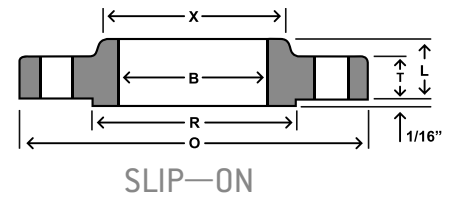
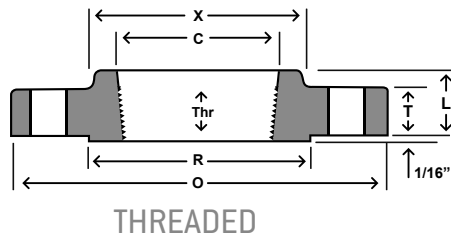
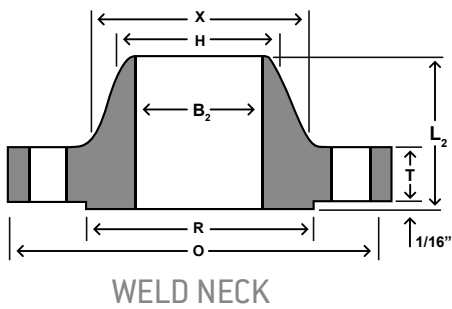
Nom. Pipe Size	O	T	T <sub>J</sub>	R	X	#/Dia of Holes <sup>a</sup>	Bolt Circle Dia	B	B <sub>2</sub> <sup>b</sup>	B <sub>3</sub>	H	L	L <sub>2</sub>	L <sub>3</sub> <sup>c</sup>	r	D	Thr
1/2	3.50	0.38	0.44	1.38	1.19	4-0.62	2.38	0.88	0.62	0.90	0.84	0.56	1.81	0.62	0.12	0.38	0.62
3/4	3.88	0.44	0.50	1.69	1.50	4-0.62	2.75	1.09	0.82	1.11	1.05	0.56	2.00	0.62	0.12	0.44	0.62
1	4.25	0.50	0.56	2.00	1.94	4-0.62	3.12	1.36	1.05	1.38	1.32	0.62	2.12	0.69	0.12	0.50	0.69
1 1/4	4.62	0.56	0.62	2.50	2.31	4-0.62	3.50	1.70	1.38	1.72	1.66	0.75	2.19	0.81	0.19	0.56	0.81
1 1/2	5.00	0.62	0.69	2.88	2.56	4-0.62	3.88	1.95	1.61	1.97	1.90	0.81	2.38	0.88	0.25	0.62	0.88
2	6.00	0.69	0.75	3.62	3.06	4-0.75	4.75	2.44	2.07	2.46	2.38	0.94	2.44	1.00	0.31	0.69	1.00
2 1/2	7.00	0.81	0.88	4.12	3.56	4-0.75	5.50	2.94	2.47	2.97	2.88	1.06	2.69	1.12	0.31	0.75	1.12
3	7.50	0.88	0.94	5.00	4.25	4-0.75	6.00	3.57	3.07	3.60	3.50	1.12	2.69	1.19	0.38	0.81	1.19
3 1/2	8.50	0.88	0.94	5.50	4.81	8-0.75	7.00	4.07	3.55	4.10	4.00	1.19	2.75	1.25	0.38	0.88	1.25
4	9.00	0.88	0.94	6.19	5.31	8-0.75	7.50	4.57	4.03	4.60	4.50	1.25	2.94	1.31	0.44	0.94	1.31
5	10.00	0.88	0.94	7.31	6.44	8-0.88	8.50	5.66	5.05	5.69	5.56	1.38	3.44	1.44	0.44	0.94	1.44
6	11.00	0.94	1.00	8.50	7.56	8-0.88	9.50	6.72	6.07	6.75	6.63	1.50	3.44	1.56	0.50	1.06	1.56
8	13.50	1.06	1.12	10.62	9.69	8-0.88	11.75	8.72	7.98	8.75	8.63	1.69	3.94	1.75	0.50	1.25	1.75
10	16.00	1.12	1.19	12.75	12.00	12-1.00	14.25	10.88	10.02	10.92	10.75	1.88	3.94	1.94	0.50	1.31	1.94
12	19.00	1.19	1.25	15.00	14.38	12-1.00	17.00	12.88	12.00	12.92	12.75	2.12	4.44	2.19	0.50	1.56	2.19
14	21.00	1.31	1.38	16.25	15.75	12-1.12	18.75	14.14	13.25	14.18	14.00	2.19	4.94	3.12	0.50	1.63	2.25
16	23.50	1.38	1.44	18.50	18.00	16-1.12	21.25	16.16	15.25	16.19	16.00	2.44	4.94	3.44	0.50	1.75	2.50
18	25.00	1.50	1.56	21.00	19.88	16-1.25	22.75	18.18	17.25	18.20	18.00	2.62	5.44	3.81	0.50	1.94	2.69
20	27.50	1.62	1.69	23.00	22.00	20-1.25	25.00	20.20	19.25	20.25	20.00	2.81	5.62	4.06	0.50	2.13	2.88
22	29.50	1.75	1.81	25.25	24.25	20-1.38	27.25	22.22	21.25	22.25	22.00	3.07	5.82	4.25	0.50	2.38	3.13
24	32.00	1.81	1.88	27.25	26.12	20-1.38	29.50	24.25	23.25	24.25	24.00	3.19	5.94	4.38	0.50	2.50	3.25

Dimensions are in inches

(A) Bolt diameter 1/8" larger than bolt diameter

(B) This dimension is commonly associated with "true" lap joints. Industry standard is to make the slip on length through the hub.

# ANSI B16.5 Class 300 Forged Flanges



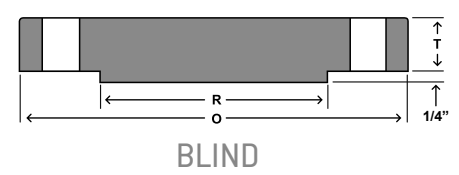
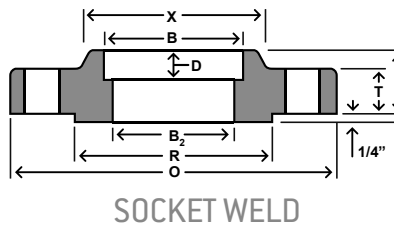
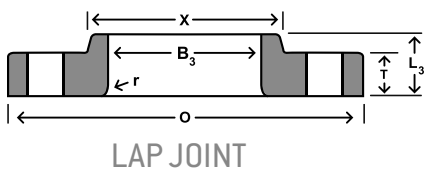
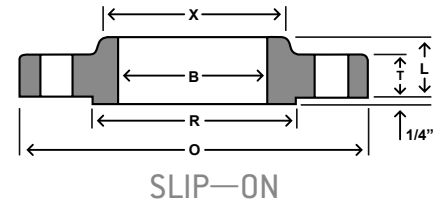
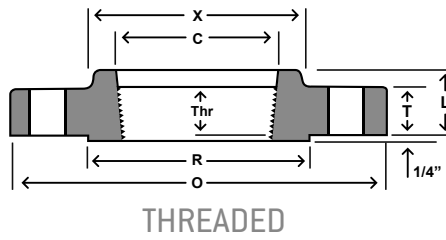
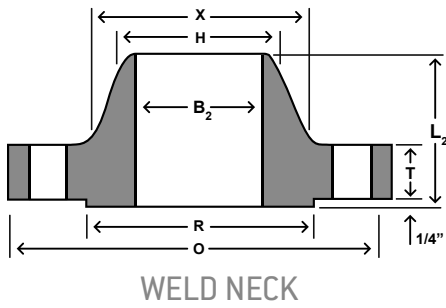
Nom. Pipe Size	O	T	T <sub>j</sub>	R	X	#/Dia of Holes <sup>a</sup>	Bolt Circle Dia	B	B <sub>2</sub> <sup>b</sup>	B <sub>3</sub>	H	L	L <sub>2</sub>	L <sub>3</sub> <sup>c</sup>	r	C	D	Thr
1/2	3.75	0.50	0.56	1.38	1.50	4-0.63	2.62	0.88	0.62	0.90	0.84	0.81	2.00	0.88	0.12	0.93	0.38	0.62
3/4	4.62	0.56	0.62	1.69	1.88	4-0.75	3.25	1.09	0.82	1.11	1.05	0.94	2.19	1.00	0.12	1.14	0.44	0.62
1	4.88	0.62	0.69	2.00	2.12	4-0.75	3.50	1.36	1.05	1.38	1.32	1.00	2.38	1.06	0.12	1.41	0.50	0.69
1 1/4	5.25	0.69	0.75	2.50	2.50	4-0.75	3.88	1.70	1.38	1.72	1.66	1.00	2.50	1.06	0.19	1.75	0.56	0.81
1 1/2	6.12	0.75	0.81	2.88	2.75	4-0.88	4.50	1.95	1.61	1.97	1.90	1.13	2.63	1.19	0.25	1.98	0.62	0.88
2	6.50	0.81	0.88	3.62	3.31	8-0.75	5.00	2.44	2.07	2.46	2.38	1.25	2.69	1.31	0.31	2.50	0.69	1.12
2 1/2	7.50	0.94	1.00	4.12	3.94	8-0.88	5.88	2.94	2.47	2.97	2.88	1.44	2.94	1.50	0.31	3.00	0.75	1.25
3	8.25	1.06	1.12	5.00	4.62	8-0.88	6.62	3.57	3.07	3.60	3.50	1.63	3.06	1.69	0.38	3.63	0.81	1.25
3 1/2	9.00	1.12	1.19	5.50	5.25	8-0.88	7.25	4.07	3.55	4.10	4.00	1.69	3.13	1.75	0.38	4.13	...	1.44
4	10.00	1.19	1.25	6.19	5.75	8-0.88	7.88	4.57	4.03	4.60	4.50	1.82	3.32	1.88	0.44	4.63	...	1.44
5	11.00	1.31	1.38	7.31	7.00	8-0.88	9.25	5.66	5.05	5.69	5.56	1.94	3.82	2.00	0.44	5.69	...	1.69
6	12.50	1.38	1.44	8.50	8.12	12-0.88	10.62	6.72	6.07	6.75	6.63	2.00	3.82	2.06	0.50	6.75	...	1.81
8	15.00	1.56	1.62	10.62	10.25	12-1.00	13.00	8.72	7.98	8.75	8.63	2.38	4.32	2.44	0.50	8.75	...	2.00
10	17.50	1.81	1.88	12.75	12.62	16-1.12	15.25	10.88	10.02	10.92	10.75	2.56	4.56	3.75	0.50	10.88	...	2.19
12	20.50	1.94	2.00	15.00	14.75	16-1.25	17.75	12.88	12.00	12.92	12.75	2.82	5.06	4.00	0.50	12.94	...	2.38
14	23.00	2.06	2.12	16.25	16.75	20-1.25	20.25	14.14	13.25	14.18	14.00	2.94	5.56	4.38	0.50	14.19	...	2.50
16	25.50	2.19	2.25	18.50	19.00	20-1.38	22.50	16.16	15.25	16.19	16.00	3.19	5.69	4.75	0.50	16.19	...	2.69
18	28.00	2.31	2.38	21.00	21.00	24-1.38	24.75	18.18	17.25	18.20	18.00	3.44	6.19	5.12	0.50	18.19	...	2.75
20	30.50	2.44	2.50	23.00	23.12	24-1.38	27.00	20.20	19.25	20.25	20.00	3.69	6.32	5.50	0.50	20.19	...	2.88
22	33.00	2.57	2.63	25.25	25.25	24-1.63	29.25	22.22	21.25	22.25	22.00	3.93	6.43	5.75	0.50	22.19	...	3.13
24	36.00	2.69	2.75	27.25	27.62	24-1.63	32.00	24.25	23.25	24.25	24.00	4.13	6.56	6.00	0.50	24.19	...	3.25

**DIMENSIONS ARE IN INCHES**

**(A)** Bolt hole diameter 1/8" larger than bolt diameter

**(B)** This dimension is commonly associated with "true" lap joints. Industry standard is to make to the slip on length through the hub.

# ANSI B16.5 Class 400 Forged Flanges



Nom. Pipe Size	O	T	R	X	#/Dia of Holes <sup>a</sup>	Bolt Circle Dia	B	B <sub>2</sub> <sup>b</sup>	B <sub>3</sub>	H	L	L <sub>2</sub>	L <sub>3</sub> <sup>c</sup>	r	C	D	Thr
1/2	3.75	0.56	1.38	1.50	4-0.63	2.62	0.88		0.90	0.84	0.88	2.06	0.88	0.12	0.93	0.38	0.62
3/4	4.62	0.62	1.69	1.88	4-0.75	3.25	1.09		1.11	1.05	1.00	2.25	1.00	0.12	1.14	0.44	0.62
1	4.88	0.69	2.00	2.12	4-0.75	3.50	1.36		1.38	1.32	1.06	2.44	1.06	0.12	1.41	0.50	0.69
1 1/4	5.25	0.81	2.50	2.50	4-0.75	3.88	1.70		1.72	1.66	1.12	2.62	1.12	0.19	1.75	0.56	0.81
1 1/2	6.12	0.88	2.88	2.75	4-0.88	4.50	1.95		1.97	1.90	1.25	2.75	1.25	0.25	1.99	0.62	0.88
2	6.50	1.00	3.62	3.31	8-0.75	5.00	2.44		2.46	2.38	1.44	2.88	1.44	0.31	2.50	0.69	1.12
2 1/2	7.50	1.12	4.12	3.94	8-0.88	5.88	2.94		2.97	2.88	1.62	3.12	1.62	0.31	3.00	0.75	1.25
3	8.25	1.25	5.00	4.62	8-0.88	6.62	3.57		3.60	3.50	1.81	3.25	1.81	0.38	3.63	0.81	1.38
3 1/2	9.00	1.38	5.50	5.25	8-1.00	7.25	4.07		4.10	4.00	1.94	3.38	1.94	0.38	4.13	...	1.56
4	10.00	1.38	6.19	5.75	8-1.00	7.88	4.57		4.60	4.50	2.00	3.50	2.00	0.44	4.63	...	1.44
5	11.00	1.50	7.31	7.00	8-1.00	9.25	5.66		5.69	5.56	2.12	4.00	2.12	0.44	5.69	...	1.69
6	12.50	1.62	8.50	8.12	12-1.00	10.62	6.72		6.75	6.63	2.25	4.06	2.25	0.50	6.75	...	1.81
8	15.00	1.88	10.62	10.25	12-1.12	13.00	8.72		8.75	8.63	2.69	4.62	2.69	0.50	8.75	...	2.00
10	17.50	2.12	12.75	12.62	16-1.25	15.25	10.88		10.92	10.75	2.88	4.88	4.00	0.50	10.88	...	2.19
12	20.50	2.25	15.00	14.75	16-1.38	17.75	12.88		12.92	12.75	3.12	5.38	4.25	0.50	12.94	...	2.38
14	23.00	2.38	16.25	16.75	20-1.38	20.25	14.14		14.18	14.00	3.31	5.88	4.62	0.50	14.19	...	2.50
16	25.50	2.50	18.50	19.00	20-1.50	22.50	16.16		16.19	16.00	3.69	6.00	5.00	0.50	16.19	...	2.69
18	28.00	2.62	21.00	21.00	24-1.50	24.75	18.18		18.20	18.00	3.88	6.50	5.38	0.50	18.19	...	2.75
20	30.50	2.75	23.00	23.12	24-1.62	27.00	20.20		20.25	20.00	4.00	6.62	5.75	0.50	20.19	...	2.88
22	33.00	2.88	25.25	25.25	24-1.75	29.25	22.22		22.25	22.00	4.25	6.75	6.00	0.50	...	...	..
24	36.00	3.00	27.25	27.62	24-1.88	32.00	24.25		24.25	24.00	4.50	6.88	6.25	0.50	24.19	...	3.25

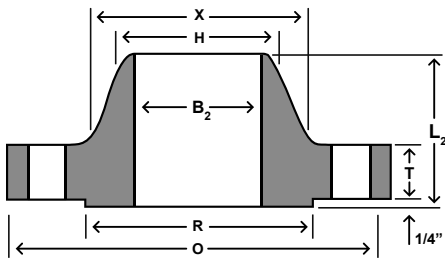
To be specified by Purchaser.

**DIMENSIONS ARE IN INCHES**

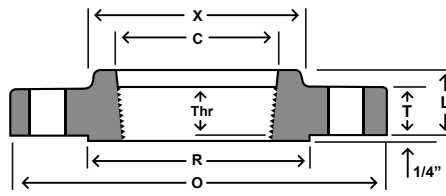
**(A)** Bolt hole diameter 1/8" larger than bolt diameter

**(B)** This dimension is commonly associated with "true" lap joints. Industry standard is to make to the slip on length through the hub.

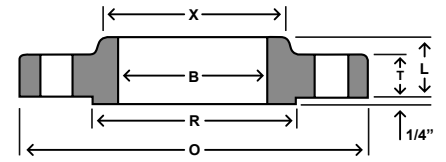
# ANSI B16.5 Class 600 Forged Flanges



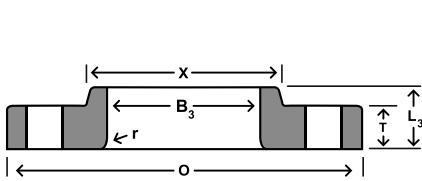
WELD NECK



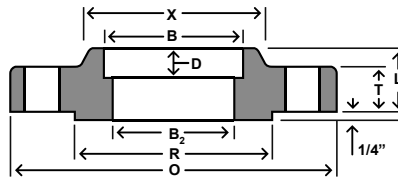
THREADED



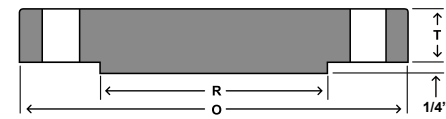
SLIP-ON



LAP JOINT



SOCKET WELD



BLIND

Nom. Pipe Size	O	T	R	X	#/Dia of Holes <sup>a</sup>	Bolt Circle Dia	B	B <sub>2</sub> <sup>b</sup>	B <sub>3</sub>	H	L	L <sub>2</sub>	L <sub>3</sub> <sup>c</sup>	r	C	D	Thr
1/2	3.75	0.56	1.38	1.50	4-0.63	2.62	0.88		0.90	0.84	0.88	2.06	0.88	0.12	0.93	0.38	0.62
3/4	4.62	0.62	1.69	1.88	4-0.75	3.25	1.09		1.11	1.05	1.00	2.25	1.00	0.12	1.14	0.44	0.62
1	4.88	0.69	2.00	2.12	4-0.75	3.50	1.36		1.38	1.32	1.06	2.44	1.06	0.12	1.41	0.50	0.69
1 1/4	5.25	0.81	2.50	2.50	4-0.75	3.88	1.70		1.72	1.66	1.12	2.62	1.12	0.19	1.75	0.56	0.81
1 1/2	6.12	0.88	2.88	2.75	4-0.88	4.50	1.95		1.97	1.90	1.25	2.75	1.25	0.25	1.99	0.62	0.88
2	6.50	1.00	3.62	3.31	8-0.75	5.00	2.44		2.46	2.38	1.44	2.88	1.44	0.31	2.50	0.69	1.12
2 1/2	7.50	1.12	4.12	3.94	8-0.88	5.88	2.94		2.97	2.88	1.62	3.12	1.62	0.31	3.00	0.75	1.25
3	8.25	1.25	5.00	4.62	8-0.88	6.62	3.57		3.60	3.50	1.81	3.25	1.81	0.38	3.63	0.81	1.38
3 1/2	9.00	1.38	5.50	5.25	8-1.00	7.25	4.07		4.10	4.00	1.94	3.38	1.94	0.38	4.13	...	1.56
4	10.75	1.50	6.19	6.00	8-1.00	8.50	4.57		4.60	4.50	2.12	4.00	2.12	0.44	4.63	...	1.62
5	13.00	1.75	7.31	7.44	8-1.12	10.50	5.66		5.69	5.56	2.38	4.50	2.38	0.44	5.69	...	1.88
6	14.00	1.88	8.50	8.75	12-1.12	11.50	6.72		6.75	6.63	2.62	4.62	2.62	0.50	6.75	...	2.00
8	16.50	2.19	10.62	10.75	12-1.25	13.75	8.72		8.75	8.63	3.00	5.25	3.00	0.50	8.75	...	2.25
10	20.00	2.50	12.75	13.50	16-1.38	17.00	10.88		10.92	10.75	3.38	6.00	4.38	0.50	10.88	...	2.56
12	22.00	2.62	15.00	15.75	20-1.38	19.25	12.88		12.92	12.75	3.62	6.12	4.62	0.50	12.94	...	2.75
14	23.75	2.75	16.25	17.00	20-1.50	20.75	14.14		14.18	14.00	3.69	6.50	5.00	0.50	14.19	...	2.88
16	27.00	3.00	18.50	19.50	20-1.63	23.75	16.16		16.19	16.00	4.19	7.00	5.50	0.50	16.19	...	3.06
18	29.25	3.25	21.00	21.50	20-1.75	25.75	18.18		18.20	18.00	4.62	7.25	6.00	0.50	18.19	...	3.12
20	32.00	3.50	23.00	24.00	20-1.75	28.50	20.20		20.25	20.00	5.00	7.50	6.50	0.50	20.19	...	3.25
22	34.25	3.75	25.25	26.25	24-1.75	30.63	22.22		22.25	22.00	5.25	7.75	6.88	0.50	...	...	..
24	37.00	4.00	27.25	28.25	24-2.00	33.00	24.25		24.25	24.00	5.50	8.00	7.25	0.50	24.19	...	3.62

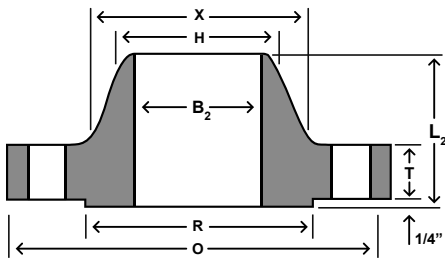
To be specified by Purchaser.

**DIMENSIONS ARE IN INCHES**

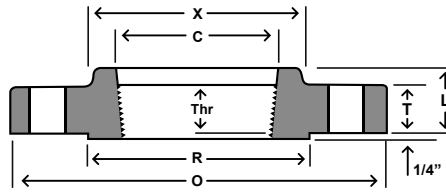
**(A)** Bolt hole diameter 1/8" larger than bolt diameter

**(B)** This dimension is commonly associated with "true" lap joints. Industry standard is to make to the slip on length through the hub.

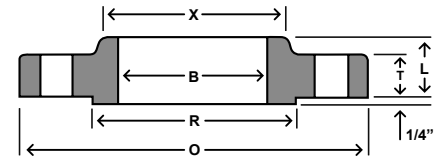
# ANSI B16.5 Class 900 Forged Flanges



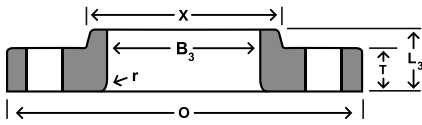
WELD NECK



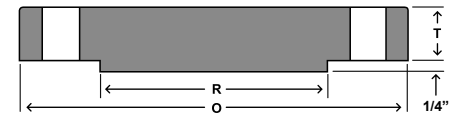
THREADED



SLIP—ON



LAP JOINT



BLIND

Nom. Pipe Size	O	T	R	X	#/Dia of Holes <sup>a</sup>	Bolt Circle Dia	B	B <sub>2</sub> <sup>b</sup>	B <sub>3</sub>	H	L	L <sub>2</sub>	L <sub>3</sub> <sup>c</sup>	r	C	Thr
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Sizes 1/2" through 2 1/2" are identical to class 1500.

Sizes 1/2" through 2 1/2" are identical to class 1500.

3	9.50	1.50	5.00	5.00	8-1.00	7.50	3.57		3.60	3.50	2.12	4.00	2.12	0.38	3.63	1.62
4	11.50	1.75	6.19	6.25	8-1.25	9.25	4.57		4.60	4.50	2.75	4.50	2.75	0.44	4.63	1.88
5	13.75	2.00	7.31	7.50	8-1.38	11.00	5.66		5.69	5.56	3.12	5.00	3.12	0.44	5.69	2.12
6	15.00	2.19	8.50	9.25	12-1.25	12.50	6.72		6.75	6.63	3.38	5.50	3.38	0.50	6.75	2.25
8	18.50	2.50	10.63	11.75	12-1.50	15.50	8.72		8.75	8.63	4.00	6.38	4.50	0.50	8.75	2.50
10	21.50	2.75	12.75	14.50	16-1.50	18.50	10.88		10.92	10.75	4.25	7.25	5.00	0.50	10.88	2.81
12	24.00	3.12	15.00	16.50	20-1.50	21.00	12.88		12.92	12.75	4.63	7.88	5.62	0.50	12.94	3.00
14	25.25	3.38	16.25	17.75	20-1.63	22.00	14.14		14.18	14.00	5.12	8.38	6.12	0.50	14.19	3.25
16	27.75	3.50	18.50	20.00	20-1.75	24.25	16.16		16.19	16.00	5.25	8.50	6.50	0.50	16.19	3.38
18	31.00	4.00	21.00	22.25	20-2.00	27.00	18.18		18.20	18.00	6.00	9.00	7.50	0.50	18.19	3.50
20	33.75	4.25	23.00	24.50	20-2.13	29.50	20.20		20.25	20.00	6.25	9.75	8.25	0.50	20.19	3.62
24	41.00	5.50	27.25	29.50	20-2.63	35.50	24.25		24.25	24.00	8.00	11.50	10.50	0.50	24.19	4.00

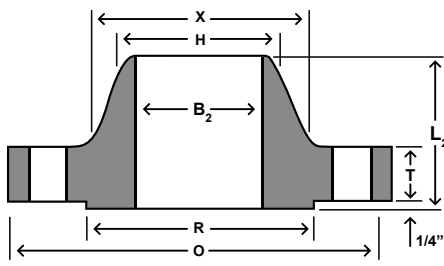
To be specified by Purchaser.

## DIMENSIONS ARE IN INCHES

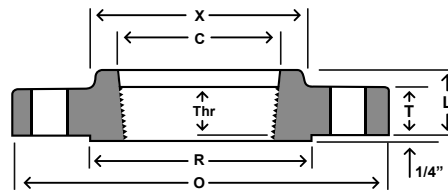
**(A)** Bolt hole diameter 1/8" larger than bolt diameter

**(B)** This dimension is commonly associated with "true" lap joints. Industry standard is to make to the slip on length through the hub.

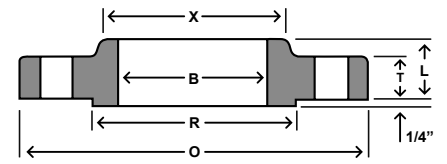
# ANSI B16.5 Class 1500 Forged Flanges



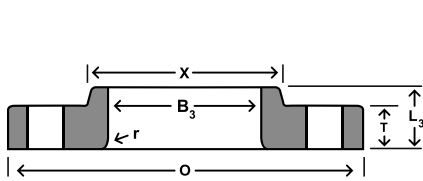
WELD NECK



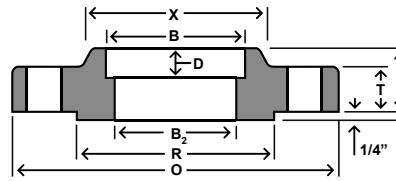
THREADED



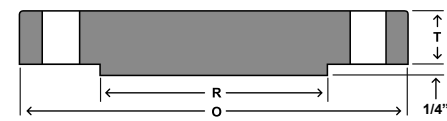
SLIP-ON



LAP JOINT



SOCKET WELD



BLIND

Nom. Pipe Size	O	T	R	X	#/Dia of Holes <sup>a</sup>	Bolt Circle Dia	B	B <sub>2</sub> <sup>b</sup>	B <sub>3</sub>	H	L	L <sub>2</sub>	L <sub>3</sub> <sup>c</sup>	r	C	D	Thr
1/2	4.75	0.88	1.38	1.50	4-0.88	3.25	0.88		0.90	0.84	1.25	2.38	1.25	0.12	0.93	0.38	0.88
3/4	5.12	1.00	1.69	1.75	4-0.88	3.50	1.09		1.11	1.05	1.38	2.75	1.38	0.12	1.14	0.44	1.00
1	5.88	1.12	2.00	2.06	4-1.00	4.00	1.36		1.38	1.32	1.62	2.88	1.62	0.12	1.41	0.50	1.12
1 1/4	6.25	1.12	2.50	2.50	4-1.00	4.38	1.70		1.72	1.66	1.62	2.88	1.62	0.19	1.75	0.56	1.19
1 1/2	7.00	1.25	2.88	2.75	4-1.12	4.88	1.95		1.97	1.90	1.75	3.25	1.75	0.25	1.99	0.62	1.25
2	8.50	1.50	3.63	4.12	8-1.00	6.50	2.44		2.46	2.38	2.25	4.00	2.25	0.31	2.50	0.69	1.50
2 1/2	9.62	1.62	4.13	4.88	8-1.12	7.50	2.94		2.97	2.88	2.50	4.12	2.50	0.31	3.00	0.75	1.88
3	10.50	1.88	5.00	5.25	8-1.25	8.00	...		3.60	3.50	...	4.62	2.88	0.38	...	...	...
4	12.25	2.12	6.19	6.38	8-1.38	9.50	...		4.60	4.50	...	4.88	3.56	0.44	...	...	...
5	14.75	2.88	7.31	7.75	8-1.63	11.50	...		5.69	5.56	...	6.12	4.12	0.44	...	...	...
6	15.50	3.25	8.50	9.00	12-1.50	12.50	...		6.75	6.63	...	6.75	4.69	0.50	...	...	...
8	19.00	3.62	10.63	11.50	12-1.75	15.50	...		8.75	8.63	...	8.38	5.62	0.50	...	...	...
10	23.00	4.25	12.75	14.50	12-2.00	19.00	...		10.92	10.75	...	10.00	7.00	0.50	...	...	...
12	26.50	4.88	15.00	17.75	16-2.12	22.50	...		12.92	12.75	...	11.12	8.62	0.50	...	...	...
14	29.50	5.25	16.25	19.50	16-2.38	25.00	...		14.18	14.00	...	11.75	9.50	0.50	...	...	...
16	32.50	5.75	18.50	21.75	16-2.63	27.75	...		16.19	16.00	...	12.25	10.25	0.50	...	...	...
18	36.00	6.38	21.00	23.50	16-2.88	30.50	...		18.20	18.00	...	12.88	10.88	0.50	...	...	...
20	38.75	7.00	23.00	25.25	16-3.12	32.75	...		20.25	20.00	...	14.00	11.50	0.50	...	...	...
24	46.00	8.00	27.25	30.00	16-3.63	39.00	...		24.25	24.00	...	16.00	13.00	0.50	...	...	...

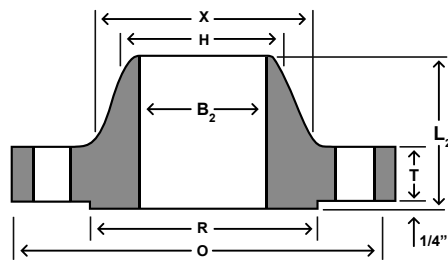
To be specified by Purchaser.

**DIMENSIONS ARE IN INCHES**

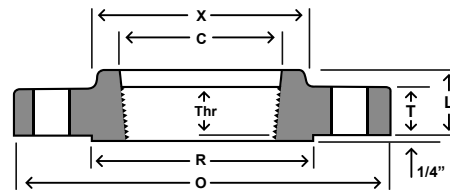
**(A)** Bolt hole diameter 1/8" larger than bolt diameter

**(B)** This dimension is commonly associated with "true" lap joints. Industry standard is to make to the slip on length through the hub.

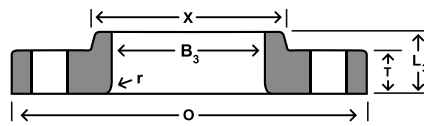
# ANSI B16.5 Class 2500 Forged Flanges



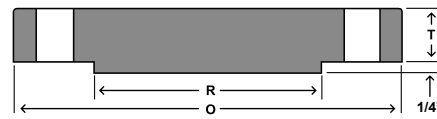
WELD NECK



THREADED



LAP JOINT



BLIND

Nom. Pipe Size	O	T	R	X	#/Dia of Holes <sup>a</sup>	Bolt Circle Dia	B <sub>2</sub> <sup>b</sup>	B <sub>3</sub>	H	L	L <sub>2</sub>	L <sub>3</sub>	r	C	Thr
1/2	5.25	1.19	1.38	1.69	4-0.88	3.50		0.90	0.84	1.56	2.88	1.56	0.12	0.93	1.12
3/4	5.50	1.25	1.69	2.00	4-0.88	3.75		1.11	1.05	1.69	3.12	1.69	0.12	1.14	1.25
1	6.25	1.38	2.00	2.25	4-1.00	4.25		1.38	1.32	1.88	3.50	1.88	0.12	1.41	1.38
1 1/4	7.25	1.50	2.50	2.88	4-1.12	5.13		1.72	1.66	2.06	3.75	2.06	0.19	1.75	1.50
1 1/2	8.00	1.75	2.88	3.12	4-1.25	5.75		1.97	1.90	2.38	4.38	2.38	0.25	1.99	1.75
2	9.25	2.00	3.63	3.75	8-1.12	6.75		2.46	2.38	2.75	5.00	2.75	0.31	2.50	2.00
2 1/2	10.50	2.25	4.13	4.50	8-1.25	7.75		2.97	2.88	3.12	5.62	3.12	0.31	3.00	2.25
3	12.00	2.62	5.00	5.25	8-1.38	9.00		3.60	3.50	....	6.62	3.62	0.38	....	....
4	14.00	3.00	6.19	6.50	8-1.63	10.75		4.60	4.50	....	7.50	4.25	0.44	....	....
5	16.50	3.62	7.31	8.00	8-1.88	12.75		5.69	5.56	....	9.00	5.12	0.44	....	....
6	19.00	4.25	8.50	9.25	8-2.12	14.50		6.75	6.63	....	10.75	6.00	0.50	....	....
8	21.75	5.00	10.63	12.00	12-2.12	17.25		8.75	8.63	....	12.50	7.00	0.50	....	....
10	26.50	6.50	12.75	14.75	12-2.63	21.25		10.92	10.75	....	16.50	9.00	0.50	....	....
12	30.00	7.25	15.00	17.38	12-2.88	24.38		12.92	12.75	....	18.25	10.00	0.50	....	....

To be specified by Purchaser.

**DIMENSIONS ARE IN INCHES**

**(A)** Bolt hole diameter 1/8" larger than bolt diameter

**(B)** This dimension is commonly associated with "true" lap joints. Industry standard is to make to the slip on length through the hub.