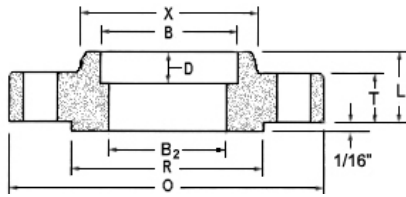


## Class 150 socket weld forged flange



The socket welding flange is similar to a slip-on flange except it has a bore and a counter bore dimension. The counter bore is slightly larger than the O.D. of the matching pipe, allowing the pipe to be inserted into the flange similar to a slip-on flange. The diameter of the smaller bore is the same as the I.D. of the matching pipe. A restriction is built into the bottom of the bore which sets as a shoulder for the pipe to rest on. This eliminates any restriction in flow when using a socket welding flange.

Socket weld forged flange

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
½	3.5	0.38	0.44	1.38	1.19	4-0.62	2.38	0.88	0.62	0.9	0.84	0.56	1.81	0.62	0.12	0.38	0.62
¾	3.88	0.44	0.5	1.69	1.5	4-0.62	2.75	1.09	0.82	1.11	1.05	0.56	2	0.62	0.12	0.44	0.62
1	4.25	0.5	0.56	2	1.94	4-0.62	3.12	1.36	1.05	1.38	1.32	0.62	2.12	0.69	0.12	0.5	0.69
1¼	4.62	0.56	0.62	2.5	2.31	4-0.62	3.5	1.7	1.38	1.72	1.66	0.75	2.19	0.81	0.19	0.56	0.81
1½	5	0.62	0.69	2.88	2.56	4-0.62	3.88	1.95	1.61	1.97	1.9	0.81	2.38	0.88	0.25	0.62	0.88
2	6	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	0.31	0.69	1
2½	7	0.81	0.88	4.12	3.56	4-0.75	5.5	2.94	2.47	2.97	2.88	1.06	2.69	1.12	0.31	0.75	1.12
3	7.5	0.88	0.94	5	4.25	4-0.75	6	3.57	3.07	3.6	3.5	1.12	2.69	1.19	0.38	0.81	1.19
3½	8.5	0.88	0.94	5.5	4.81	8-0.75	7	4.07	3.55	4.1	4	1.19	2.75	1.25	0.38	0.88	1.25
4	9	0.88	0.94	6.19	5.31	8-0.75	7.5	4.57	4.03	4.6	4.5	1.25	2.94	1.31	0.44	0.94	1.31
5	10	0.88	0.94	7.31	6.44	8-0.88	8.5	5.66	5.05	5.69	5.56	1.38	3.44	1.44	0.44	0.94	1.44
6	11	0.94	1	8.5	7.56	8-0.88	9.5	6.72	6.07	6.75	6.63	1.5	3.44	1.56	0.5	1.06	1.56
8	13.5	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	0.5	1.25	1.75
10	16	1.12	1.19	12.75	12	12-1.00	14.25	10.88	10.02	10.92	10.8	1.88	3.94	1.94	0.5	1.31	1.94
12	19	1.19	1.25	15	14.38	12-1.00	17	12.88	12	12.92	12.8	2.12	4.44	2.19	0.5	1.56	2.19
14	21	1.31	1.38	16.25	15.75	12-1.12	18.75	14.14	13.25	14.18	14	2.19	4.94	3.12	0.5	1.63	2.25
16	23.5	1.38	1.44	18.5	18	16-1.12	21.25	16.16	15.25	16.19	16	2.44	4.94	3.44	0.5	1.75	2.5
18	25	1.5	1.56	21	19.88	16-1.25	22.75	18.18	17.25	18.2	18	2.62	5.44	3.81	0.5	1.94	2.69
20	27.5	1.62	1.69	23	22	20-1.25	25	20.2	19.25	20.25	20	2.81	5.62	4.06	0.5	2.13	2.88
22	29.5	1.75	1.81	25.25	24.25	20-1.38	27.25	22.22	21.25	22.25	22	3.07	5.82	4.25	0.5	2.38	3.13
24	32	1.81	1.88	27.25	26.12	20-1.38	29.5	24.25	23.25	24.25	24	3.19	5.94	4.38	0.5	2.5	3.25

*Dimensions are in inches.*

- (a)- Bolt hole diameter 1/8 in. larger than bolt diameter.
- (b)- Standard bore dimensions provided. See bore chart for other wall thicknesses.
- (c)- This dimension is commonly associated with "true" lap joints. Industry standard is to make to the slip on length through the hub.

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