

Flanges

Steel Welding Flanges



Steel Welding Flanges are manufactured to comply with the American Water Works Association C207, Table 1, Class D specification for steel plate flanges. In those sizes not covered by AWWA C207, design data was extracted from the specification and employed for sizes 3" and smaller. All sizes manufactured are UL Listed and FM Approved for 175 psi at ambient temperature up to and including 12" sizes, while sizes over 12" are rated for 150 psi at ambient temperature. National Steel Plate Flanges have the same diameter and bolt hole drilling as class 125 cast iron flanges per ANSI, B16.1. For size 24" and smaller, National Steel Plate Flanges also match ANSI B16.5, 150-pound class. Steel plate flanges, aside from lower initial cost, are generally considered to be easier to install during make-up and final installation.

Available Slip-On, Reducing and Blind.

- Pressure rating at ambient temperature for sizes 2" - 12" — 175 psi.
- Flanges have the same diameter and drilling as Class 125 cast-iron flanges (ANSI 16.1).
- Prompt delivery from stock.
- Priced significantly lower than forged steel welding flanges.
- UL Listed and FM Approved.
- Conform to AWWA C207 Class D.



NATIONAL STEEL FLANGES (NATIONAL FITTINGS LISTINGS: UL HKOK – EX5222, FM APPROVAL GUIDE CHAPTER 1 - PIPE FITTINGS)

Model	Configuration	Size (Inch)	Rated Pressure (psig)
PFB	Blind Flange	2, 2 1/2, 3, 4, 5, 6, 8, 10 & 12	175
PFS	Slip-On Flange (Ring Type)	2, 2 1/2, 3, 4, 5, 6, 8, 10 & 12	
PFR	Reducing Flange	4 x 2, 4 x 2 1/2, 4 x 3, 6 x 3, 6 x 4, 8 x 4, 8 x 6	

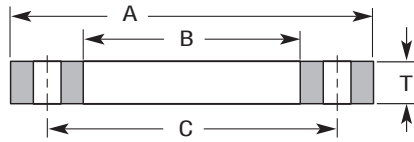
PROJECT INFORMATION:

APPROVAL STAMP:

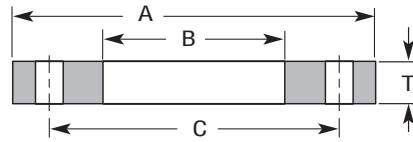
Project:		
Date:	Phone:	
Architect / Engineer:		
Contractor:		
Address:		
Notes 1:		
Notes 2:		

Flanges

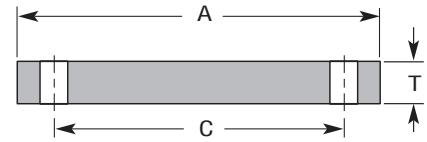
Steel Welding Flanges



Slip-On



Reducing



Blind

Part Number/Model			Nominal Size	Reducing Pipe Size	O.D. A	Inside Diameter B In. (mm)		Bolt Circle C	Thickness T	Number of Bolts Required	Bolt Hole Diameter
Slip-On	Blind	Reducing	In. (mm)	In. (mm)	In. (mm)	Slip on	Reducing	In. (mm)	In. (mm)	In. (mm)	In. (mm)
400200	410200		2* 50	-- --	6 152.4	3 76.2	2.44 62.0	4.75 120.7	.5 15.9	4 -	.750 19
400250	410250	42025020	2½* 65	2½ x 2 65 x 50	7 177.8	3 76.2	2.44 62.0	5.5 139.7	.5 15.9	4 -	.750 19
400300	410300	42030020	3* 80	3 x 2 80 x 50	8 190.5	3.6 91.4	2.44 62.0	6 152.4	.5 15.9	4 -	.750 19
		42030025	3* 80	3 x 2½ 80 x 65	8 190.5	3.6 91.4	2.97 75.4	6 152.4	.5 15.9	4 -	.750 19
400400	410400	42040020	4 100	4 x 2 100 x 50	9 228.65	4.6 116.1	2.44 62.0	7.5 190.5	.625 15.9	8 -	.750 19
		42040025	4 100	4 x 2½ 100 x 65	9 228.65	4.6 116.1	2.97 75.4	7.5 190.5	.625 15.9	8 -	.750 19
		42040030	4 100	4 x 3 100 x 80	9 228.65	4.6 116.1	3.6 91.4	7.5 190.5	.625 15.9	8 -	.750 19
400500	410500	42050020	5 125	5 x 2 125 x 50	10 254	5.7 143.8	2.44 62.0	8.5 215.9	.625 15.9	8 -	.875 22
		42050025	5 125	5 x 2½ 125 x 65	10 254	5.7 143.8	2.44 62.0	8.5 215.9	.625 15.9	8 -	.875 22
		42050030	5 125	5 x 3 125 x 80	10 254	5.7 143.8	3.6 91.4	8.5 215.9	.625 15.9	8 -	.875 22
		42050040	5 125	5 x 4 125 x 100	10 254	5.7 143.8	4.57 116.1	8.5 215.9	.625 15.9	8 -	.875 22
400600	410600	42060025	6 150	6 x 2 150 x 50	11 279.4	6.7 170.7	2.44 62.0	9.5 241.3	.688 17.5	8 -	.875 22
		42060030	6 150	6 x 2½ 150 x 65	11 279.4	6.7 170.7	2.97 75.4	9.5 241.3	.688 17.5	8 -	.875 22
		42060035	6 150	6 x 3 150 x 80	11 279.4	6.7 170.7	3.6 91.4	9.5 241.3	.688 17.5	8 -	.875 22
		420600405	6 150	6 x 4 150 x 100	11 279.4	6.7 170.7	4.57 116.1	9.5 241.3	.688 17.5	8 -	.875 22
400800	410800	42080030	8 200	8 x 3 200 x 80	14 342.9	8.7 221.5	2.97 75.4	11.75 298.5	.688 17.5	8 -	.875 22
		42080040	8 200	8 x 4 200 x 100	14 342.9	8.7 221.5	4.57 116.1	11.75 298.5	.688 17.5	8 -	.875 22
		42080060	8 200	8 x 6 200 x 150	14 342.9	8.7 221.5	6.72 170.7	11.75 298.5	.688 17.5	8 -	.875 22
401000	411000		10 250	- -	16 406.4	11 276.4	- -	14.25 362.0	.812 20.6	12 -	1 25
401200	411200		12 300	- -	19 482.6	13 327.2	-- -	17 431.8	.938 23.8	12 -	1 25