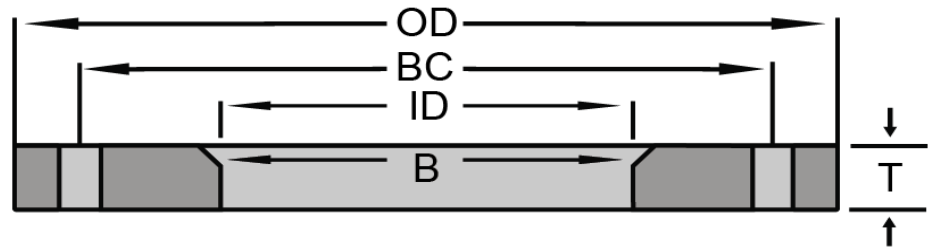




Ductile Iron Back-up Flanges



Nominal size	Inside Diameter (ID)		Outside Diameter (OD)	Thickness (T)	Bolt Circle (BC)	Diameter Of Holes	No. of Bolt Holes	45 Degree Bevel (B)	Weight Each (lbs)
	AFR	IPS			Drilling Pattern #150				
1/2		0.90	3.50	0.50	2.38	0.625	4	0.250	1.0
3/4		1.11	3.88	0.50	2.75	0.625	4	0.250	1.4
1	1.75	1.38	4.25	0.50	3.13	0.625	4	0.250	1.7
1 1/4	2.00	1.72	4.63	0.50	3.50	0.625	4	0.250	1.8
1 1/2	2.25	1.97	5.00	0.50	3.88	0.625	4	0.250	2.0
2	2.80	2.46	6.00	0.50	4.75	0.750	4	0.250	3.0
2 1/2	3.31	2.97	7.00	0.50	5.50	0.750	4	0.250	3.9
3	3.94	3.60	7.50	0.50	6.00	0.750	4	0.250	4.0
4	4.94	4.60	9.00	0.56	7.50	0.750	8	0.250	6.5
5	6.10	5.69	10.00	0.63	8.50	0.875	8	0.250	7.0
6	7.20	6.75	11.00	0.63	9.50	0.875	8	0.250	8.0
8	9.25	8.75	13.50	0.63	11.75	0.875	8	0.312	11.5
10	11.44	10.95	16.00	0.63	14.25	1.000	12	0.312	15.0
12	13.44	12.95	19.00	0.75	17.00	1.000	12	0.312	26.0
14	14.81	14.20	21.00	0.75	18.75	1.125	12	0.312	34.0
16	16.91	16.20	23.50	0.75	21.25	1.125	16	0.375	37.0
18	18.91	18.20	25.00	0.88	22.75	1.250	16	0.375	42.0
20	20.91	20.25	27.50	0.88	25.00	1.250	20	0.375	51.0
24	24.91	24.25	32.00	1.00	29.50	1.375	20	0.375	76.0
30	30.91	30.25	38.75	1.00	36.00	1.375	28	0.500	104.0
36	36.91	36.25	46.00	1.13	42.75	1.625	32	0.500	150.0
42	42.91	42.28	53.00	1.25	49.50	1.625	36	0.500	208.0
48	48.91	48.28	59.50	1.25	56.00	1.625	44	0.500	246.0

Dimensions are in inches.

150# Drill Pattern

Inside Diameters available in AFR (to fit Angle Face Rings) and IPS (to fit Stub-Ends)

Available Primer Painted or Hot-Dip Galvanized

ASTM A536 Material

Physical Properties (minimum)

Tensile Strength: 65,000 psi Yield Strength: 45,000 psi Elongation: 10%