

Flanges comply with ASME B16.5 and are welded in accordance with the Boiler Code ASME Section IX. Certified welders use ASME Section II Compliant materials. Gaskets are not supplied with flanged thermowells and assemblies.

Nominal Pipe Size (inches)	Nominal Diameter DN	Flange Class	"O" Outside Diameter of Flange	"R" Outside Diameter Raised Face Large Male and Large Tongue	"W" Diameter of Bolt Circle	Number of Bolts	"t _f " Thickness of Flange Min.
1/2	15	150	3.50	1.38	2.38	4	0.38
3/4	20	150	3.88	1.69	2.75	4	0.44
1	25	150	4.25	2.00	3.12	4	0.50
1 1/4	32	150	4.62	2.50	3.50	4	0.56
1 1/2	40	150	5.00	2.88	3.88	4	0.62
2	50	150	6.00	3.62	4.75	4	0.69
2 1/2	65	150	7.00	4.12	5.50	4	0.81
3	80	150	7.50	5.00	6.00	4	0.88
3 1/2	90	150	8.50	5.50	7.00	8	0.88
4	100	150	9.00	6.19	7.50	8	0.88
1/2	15	300	3.75	1.38	2.62	4	0.50
3/4	20	300	4.62	1.69	3.25	4	0.56
1	25	300	4.88	2.00	3.50	4	0.62
1 1/4	32	300	5.25	2.50	3.88	4	0.69
1 1/2	40	300	6.12	2.88	4.50	4	0.75
2	50	300	6.50	3.62	5.00	8	0.81
2 1/2	65	300	7.50	4.12	5.88	8	0.94
3	80	300	8.25	5.00	6.62	8	1.06
3 1/2	90	300	9.00	5.50	7.25	8	1.12
4	100	300	10.00	6.19	7.88	8	1.19
1/2	15	600	3.75	1.38	2.62	4	0.56
3/4	20	600	4.62	1.69	3.25	4	0.62
1	25	600	4.88	2.00	3.50	4	0.69
1 1/4	32	600	5.25	2.50	3.88	4	0.81
1 1/2	40	600	6.12	2.88	4.50	4	0.88
2	50	600	6.50	3.62	5.00	8	1.00
2 1/2	65	600	7.50	4.12	5.88	8	1.12
3	80	600	8.25	5.00	6.62	8	1.25
3.50	90	600	9.00	5.50	7.25	8	1.38
4.00	100	600	10.75	6.19	8.50	8	1.50

