

Pipe Size, Flange & Thread Data

Pipe Size & Thread Data (See reverse side for flange data)

Nom. Pipe Size	Thrds per inch	PIPE O.D.	Pipe I.D. (ANSI Schedule)							Nom. Pipe Size	Tap Drill Sizes				Thread Length		Nom. Pipe Size
			N/A THREADED		40	80	120 custom	160	XX		NPT National Pipe Thread for Pressure Sealing		SPT Straight Pipe Thread for Mechanical Connection		Total Inches ext. Thread	Makeup after tightening	
			5	10													
1/8	27	.405	n/a	.307	.269	.215	--	--	--	1/8	21/64	.328	11/32	.344	.392	.291	1/8
1/4	18	.540	n/a	.410	.364	.302	--	--	--	1/4	27/64	.422	7/16	.438	.595	.367	1/4
3/8	18	.675	n/a	.545	.493	.423	--	--	--	3/8	9/16	.563	37/64	.578	.601	.407	3/8
1/2	14	.840	.710	.674	.622	.546	.480	.466	.252	1/2	11/16	.688	23/32	.719	.782	.534	1/2
3/4	14	1.050	.920	.884	.824	.742	.690	.614	.434	3/4	57/64	.891	59/64	.922	.794	.553	3/4
1	11.5	1.315	1.185	1.097	1.049	.957	.891	.815	.599	1	1 1/8	1.125	1 5/32	1.156	.985	.661	1
1 1/4	11.5	1.660	1.530	1.442	1.380	1.278	1.204	1.160	.896	1 1/4	1-15/32	1.469	1 1/2	1.500	1.009	.681	1 1/4
1 1/2	11.5	1.900	1.777	1.682	1.610	1.500	1.423	1.338	1.100	1 1/2	1 23/32	1.719	1 3/4	1.750	1.025	.681	1 1/2
2	11.5	2.375	2.245	2.157	2.067	1.939	1.845	1.689	1.503	2	2 3/16	2.188	2 7/32	2.219	1.058	.697	2
2 1/2	8	2.875	2.709	2.635	2.469	2.323	2.239	2.125	1.771	2 1/2	2 19/32	2.594	2 21/32	2.656	1.571	.932	2 1/2
3	8	3.500	3.334	3.260	3.068	2.900	2.758	2.624	2.300	3	3 1/4	3.250	3 5/16	3.31	1.634	1.016	3
3 1/2	8	4.000	3.834	3.760	3.548	3.364	--	--	2.728	3 1/2	3 3/4	3.750	3 13/16	3.81	1.684	1.071	3 1/2
4	8	4.500	4.334	4.260	4.026	3.826	3.624	3.438	3.152	4	4 1/4	4.250	4 5/16	4.31	1.734	1.094	4
5	8	5.563	5.345	5.295	5.047	4.813	4.563	4.313	4.603	5	5 5/16	5.315	5 3/8	5.375	1.840	1.187	5
6	8	6.625	6.407	6.357	6.065	5.761	5.501	5.189	4.897	6	6 3/8	6.375	6 7/16	6.437	1.946	1.208	6
8	8	8.625	8.407	8.329	7.981	7.625	7.189	6.813	6.875	8	--	--	--	--	2.146	1.313	8

NPT: "National Pipe Thread" Tapered thread for pressure sealing; taper is 1in 16 or 0.0625 inch/inch.
 Make up: Tightened engaged thread length

R. F. Flange Data

150 # Flange (0.062" face thickness)					
Nominal Pipe Size	O.D.	Thick *	O.D. of Raised Face	Diam. of Bolt Circle	Weight Blind LBS
1	4.25	.56	2.00	3.12	2
1 1/4	4.62	.62	2.50	3.50	3
1 1/2	5.00	.69	2.87	3.87	3
2	6.00	.75	3.62	4.75	4
2 1/2	7.00	.87	4.12	5.50	7
3	7.50	.94	5.00	6.00	9
3 1/2	8.5	.94	5.50	7.00	13
4	9.00	.94	6.19	7.50	17
5	10.00	.94	7.31	8.50	20
6	11.00	1.00	8.50	9.50	27
8	13.50	1.13	10.62	11.75	47

300 # Flange (0.062" face thickness)					
Nominal Pipe Size	O.D.	Thick *	O.D. of Raised Face	Diam. of Bolt Circle	Weight Blind LBS
1	4.87	0.69	2.00	3.50	4
1 1/4	5.25	0.75	2.50	3.87	6
1 1/2	6.12	0.81	2.87	4.50	7
2	6.50	0.87	3.62	5.00	8
2 1/2	7.50	1.00	4.12	5.87	12
3	8.25	1.12	5.00	6.62	16
3 1/2	9.00	1.19	5.50	7.25	21
4	10.00	1.25	6.19	7.87	28
5	11.00	1.38	7.31	9.25	37
6	12.50	1.44	8.50	10.62	48
8	15.00	1.62	10.63	13.00	79

600 # Flange (0.25" face thickness)					
Nominal Pipe Size	O.D.	Thick *	O.D. of Raised Face	Diam. of Bolt Circle	Weight Blind LBS
1	4.87	.94	2.00	3.50	4
1 1/4	5.25	1.06	2.50	3.87	6
1 1/2	6.12	1.12	2.87	4.50	8
2	6.50	1.25	3.62	5.00	10
2 1/2	7.50	1.38	4.13	5.87	15
3	8.25	1.50	5.00	6.62	20
3 1/2	9.00	1.63	5.50	7.25	29
4	10.7	1.75	6.19	8.50	41
5	13.0	2.00	7.31	10.50	68
6	14.0	2.12	8.50	11.50	86
8	16.5	2.44	10.63	13.75	139

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