

Flange Size Chart: The Complete Guide to Pipe Standards

Understanding flange dimensions is crucial for any piping project, whether you're working on home plumbing or a large industrial system. This chart gives you the standard measurements for ASME B16.5 Class 150 flanges, covering common Nominal Pipe Sizes (NPS) from 1/2 inch up to 24 inches. Knowing these specs helps ensure you pick the right components for a secure, leak-free connection. You'll find outside diameters, bolt circle diameters, the number of bolts needed, and their sizes. It's an essential reference for engineers, contractors, and anyone tackling pipe work. Print this out or save the PDF for quick access on site.

NPS (IN)	DN (MM)	FLANGE OD (IN)	FLANGE OD (MM)	BOLT CIRCLE (IN)	BOLT CIRCLE (MM)	NO. BOLTS	BOLT DIA. (IN)	BOLT DIA. (MM)	MIN. THK. (IN)	MIN. THK. (MM)
1/2	15	3.50	89	2.38	60	4	1/2	13	0.44	11
3/4	20	3.88	98	2.75	70	4	1/2	13	0.50	13
1	25	4.25	108	3.12	79	4	1/2	13	0.56	14
1 1/4	32	4.62	117	3.50	89	4	1/2	13	0.62	16
1 1/2	40	5.00	127	3.88	98	4	5/8	16	0.69	18
2	50	6.00	152	4.75	121	4	5/8	16	0.75	19
2 1/2	65	7.00	178	5.50	140	4	5/8	16	0.88	22
3	80	7.50	191	6.00	152	4	5/8	16	0.94	24
3 1/2	90	8.50	216	7.00	178	8	5/8	16	1.00	25
4	100	9.00	229	7.50	191	8	5/8	16	0.94	24
5	125	10.00	254	8.50	216	8	3/4	19	1.06	27
6	150	11.00	279	9.50	241	8	3/4	19	1.06	27
8	200	13.50	343	11.75	298	8				

13 rows