

DIMENSIONAL STANDARD · MSS SP-44

MSS SP-44 Class 300 Flange Dimensions

MSS SP-44 Class 300 steel pipeline flange dimensions NPS 12–60 in inches: OD, thickness, hub, raised face, bolt circle and bolting.

This chart gives **MSS SP-44 Class 300** steel pipeline flange dimensions in inches for NPS 12 to 60 — outside diameter, minimum thickness, hub, raised face, bolt circle and bolting. MSS SP-44 flanges are made in high-yield A694 grades (F42–F70) for pipeline service.

For NPS 26 and above, MSS SP-44 dimensions are the same as ASME B16.47 Series A. Teshi Group manufactures SP-44 weld neck and blind flanges in A694 and A105 grades.

O	Outside diameter of flange
tf	Minimum flange thickness
X	Hub diameter at base
Y	Length through hub
R	Raised face diameter
W	Bolt circle diameter
Bolts	Number of bolts
Hole	Bolt hole diameter
Bolt	Bolt diameter

MSS SP-44 Class 300 weld neck / blind flange dimensions (inches)

NPS	O Flange OD · in	tf Min. thickness · in	X Hub dia · in	Y Length thru hub · in	R Raised face · in	W Bolt circle · in	Bolts No.	Hole Dia · in	Bolt Size · in
12	20.50	2.00	14.75	5.12	15.00	17.75	16	1.25	1-1/8
14	23.00	2.12	16.75	5.62	16.25	20.25	20	1.25	1-1/8
16	25.50	2.25	19.00	5.75	18.50	22.50	20	1.38	1-1/4
18	28.00	2.38	21.00	6.25	21.00	24.75	24	1.38	1-1/4
20	30.50	2.50	23.12	6.38	23.00	27.00	24	1.38	1-1/4
22	33.00	2.62	25.25	6.50	25.25	29.25	24	1.62	—
24	36.00	2.75	27.62	6.62	27.25	32.00	24	1.62	1-1/2
26	38.25	3.12	28.38	7.25	29.50	34.50	28	1.75	1-5/8
28	40.75	3.38	30.50	7.75	31.50	37.00	28	1.75	1-5/8
30	43.00	3.62	32.56	8.25	33.75	39.25	28	1.88	1-3/4
32	45.25	3.88	34.69	8.75	36.00	41.50	28	2.00	1-7/8
34	47.50	4.00	36.88	9.12	38.00	43.50	28	2.00	1-7/8
36	50.00	4.12	39.00	9.50	40.25	46.00	32	2.12	2
38	46.00	4.25	39.12	7.12	40.50	43.00	32	1.62	1-1/2
40	48.75	4.50	41.25	7.62	42.75	45.50	32	1.75	1-5/8
42	50.75	4.69	43.25	7.88	44.75	47.50	32	1.75	1-5/8
44	53.25	4.88	45.25	8.12	47.00	49.75	32	1.88	1-3/4
46	55.75	5.06	47.38	8.50	49.00	52.00	28	2.00	1-7/8

NPS	O Flange OD · in	tf Min. thickness · in	X Hub dia · in	Y Length thru hub · in	R Raised face · in	W Bolt circle · in	Bolts No.	Hole Dia · in	Bolt Size · in
48	57.75	5.25	49.38	8.81	51.25	54.00	32	2.00	1-7/8
50	60.25	5.50	51.38	9.12	53.50	56.25	32	2.12	2
52	62.25	5.69	53.38	9.38	55.50	58.25	32	2.12	2
54	65.25	6.00	55.50	9.94	57.75	61.00	28	2.38	2-1/4
56	67.25	6.06	57.62	10.25	59.75	63.00	28	2.38	2-1/4
58	69.25	6.25	59.62	10.50	62.00	65.00	32	2.38	2-1/4
60	71.25	6.44	61.62	10.75	64.00	67.00	32	2.38	2-1/4

Notes

- All dimensions are in inches (1 in = 25.4 mm).
- Class 150 and 300 thickness and hub length include the 0.06 in raised face.
- NPS 26–60 dimensions are identical to ASME B16.47 Series A; the difference is material (A694 high-yield grades).
- Values are nominal, compiled from published copies of the standard; blank cells (—) are values not confirmed from the sources available. Verify against the current edition before design, purchase or fabrication.

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