

DIMENSIONAL STANDARD · MSS SP-44

MSS SP-44 Class 150 Flange Dimensions

MSS SP-44 Class 150 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 150** 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 150 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	19.00	1.25	14.38	4.50	15.00	17.00	12	1.00	7/8
14	21.00	1.38	15.75	5.00	16.25	18.75	12	1.12	1
16	23.50	1.44	18.00	5.00	18.50	21.25	16	1.12	1
18	25.00	1.56	19.88	5.50	21.00	22.75	16	1.25	1-1/8
20	27.50	1.69	22.00	5.69	23.00	25.00	20	1.25	1-1/8
22	29.50	1.81	24.00	5.88	25.25	27.25	20	1.38	—
24	32.00	1.88	26.12	6.00	27.25	29.50	20	1.38	1-1/4
26	34.25	2.69	26.62	4.75	29.50	31.75	24	1.38	1-1/4
28	36.50	2.81	28.62	4.94	31.50	34.00	28	1.38	1-1/4
30	38.75	2.94	30.75	5.38	33.75	36.00	28	1.38	1-1/4
32	41.75	3.19	32.75	5.69	36.00	38.50	28	1.62	1-1/2
34	43.75	3.25	34.75	5.88	38.00	40.50	32	1.62	1-1/2
36	46.00	3.56	36.75	6.19	40.25	42.75	32	1.62	1-1/2
38	48.75	3.44	39.00	6.19	42.25	45.25	32	1.62	1-1/2
40	50.75	3.56	41.00	6.44	44.25	47.25	36	1.62	1-1/2
42	53.00	3.81	43.00	6.75	47.00	49.50	36	1.62	1-1/2
44	55.25	4.00	45.00	7.00	49.00	51.75	40	1.62	1-1/2
46	57.25	4.06	47.12	7.31	51.00	53.75	40	1.62	1-1/2

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	59.50	4.25	49.12	7.56	53.50	56.00	44	1.62	1-1/2
50	61.75	4.38	51.25	8.00	55.50	58.25	44	1.88	1-3/4
52	64.00	4.56	53.25	8.25	57.50	60.50	44	1.88	1-3/4
54	66.25	4.75	55.25	8.50	59.50	62.75	44	1.88	1-3/4
56	68.75	4.88	57.38	—	62.00	65.00	48	1.88	1-3/4
58	71.00	5.06	59.38	9.25	64.00	67.25	48	1.88	1-3/4
60	73.00	5.19	61.38	9.44	66.00	69.25	52	1.88	1-3/4

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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