

DIMENSIONAL STANDARD · MSS SP-44

MSS SP-44 Class 600 Flange Dimensions

MSS SP-44 Class 600 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 600** 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 600 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	22.00	2.62	15.75	6.12	15.00	19.25	20	1.38	1-1/4
14	23.75	2.75	17.00	6.50	16.25	20.75	20	1.50	1-3/8
16	27.00	3.00	19.50	7.00	18.50	23.75	20	1.62	1-1/2
18	29.25	3.25	21.50	7.25	21.00	25.75	20	1.75	1-5/8
20	32.00	3.50	24.00	7.50	23.00	28.50	24	1.75	1-5/8
22	34.25	3.75	26.25	7.75	25.25	30.62	24	1.88	—
24	37.00	4.00	28.25	8.00	27.25	33.00	24	2.00	1-7/8
26	40.00	4.25	29.44	8.75	29.50	36.00	28	2.00	1-7/8
28	42.25	4.38	31.62	9.25	31.50	38.00	28	2.12	2
30	44.50	4.50	33.94	9.75	33.75	40.25	28	2.12	2
32	47.00	4.62	36.12	10.25	36.00	42.50	28	2.38	2-1/4
34	49.00	4.75	38.31	10.62	38.00	44.50	28	2.38	2-1/4
36	51.75	4.88	40.62	11.12	40.25	47.00	28	2.62	2-1/2
38	50.00	6.00	40.25	10.00	41.50	45.75	28	2.38	2-1/4
40	52.00	6.25	42.25	10.38	43.75	47.75	32	2.38	2-1/4
42	55.25	6.62	44.38	11.00	46.00	50.50	28	2.62	2-1/2
44	57.25	6.81	46.50	11.38	48.25	52.50	32	2.62	2-1/2
46	59.50	7.06	48.62	11.81	50.25	54.75	32	2.62	2-1/2

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	62.75	7.44	50.75	12.44	52.50	57.50	32	2.88	2-3/4
50	65.75	7.75	52.88	12.94	54.50	60.00	28	3.12	3
52	67.75	8.00	54.88	13.25	56.50	62.00	32	3.12	3
54	70.00	8.25	57.00	13.75	58.75	64.25	32	3.12	3
56	73.00	8.56	59.12	14.25	60.75	66.75	32	3.38	3-1/4
58	75.00	8.75	61.12	14.56	63.00	68.75	32	3.38	3-1/4
60	78.50	9.19	63.38	15.31	65.25	71.75	28	3.62	3-1/2

Notes

- All dimensions are in inches (1 in = 25.4 mm).
- Class 400 and above thickness and hub length exclude the 0.25 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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