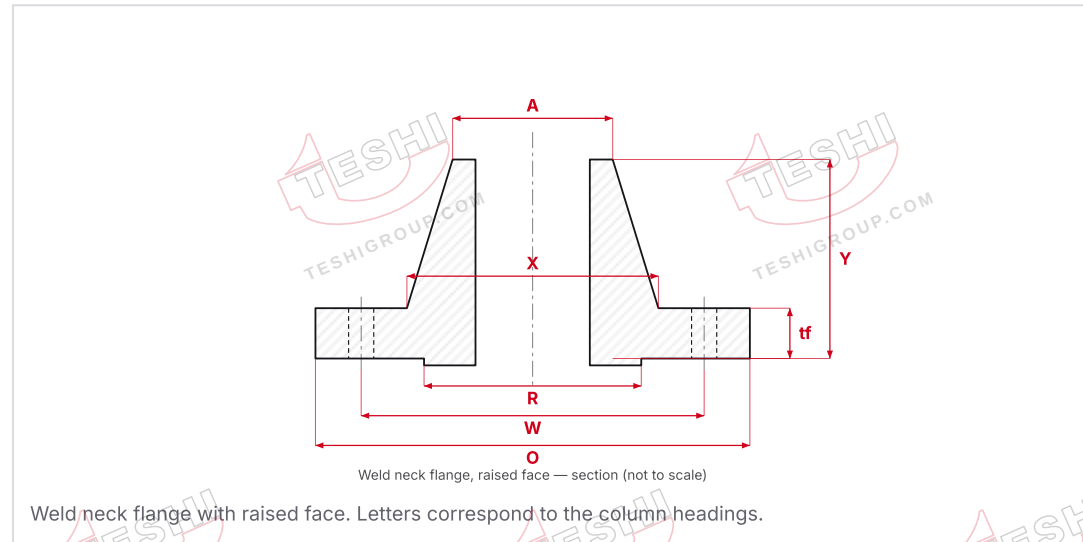


DIMENSIONAL STANDARD · ASME B16.47

ASME B16.47 Series B Flange Dimensions

Large-diameter Series B (API 605) flanges, Class 150 and 300, NPS 26–60.

ASME B16.47 Series B (formerly API 605) covers large-diameter weld neck and blind flanges from NPS 26" to 60". This chart gives the dimensions in millimetres for Class 150 and 300.



- O** Outside diameter of flange
- tf** Minimum thickness of weld neck and of blind flange, excluding the raised face
- X** Hub diameter at base
- A** Hub diameter at the welding end
- Y** Length through hub, excluding the raised face
- R** Diameter of raised face
- W** Bolt circle diameter
- Holes** Number and diameter of bolt holes

Series B Class 150 (mm)

NPS in	DN	O Outside dia	tf Weld neck	tf Blind	X Hub dia	A Hub at weld	Y Length thru hub	R Raised face dia	W Bolt circle	Holes No.	Hole dia mm	Bolt in
26"	650	785	39.8	43.0	684	661.9	87	711	744.5	36	22.2	¾"
28"	700	835	43.0	46.2	735	712.7	94	762	795.3	40	22.2	¾"
30"	750	885	43.0	49.3	787	763.5	98	813	846.1	44	22.2	¾"
32"	800	940	44.6	52.5	840	814.3	106	864	900.1	48	22.2	¾"
34"	850	1005	47.7	55.7	892	865.1	109	921	957.3	40	25.4	⅞"
36"	900	1055	50.9	57.3	945	915.9	116	972	1009.6	44	25.4	⅞"
38"	950	1125	52.5	62.0	997	968.2	122	1022	1070.0	40	28.6	1"

NPS in	DN	O Outside dia	tf Weld neck	tf Blind	X Hub dia	A Hub at weld	Y Length thru hub	R Raised face dia	W Bolt circle	Holes No.	Hole dia mm	Bolt in
40"	1000	1175	54.1	65.2	1049	1019.0	127	1080	1120.8	44	28.6	1"
42"	1050	1225	57.3	66.8	1102	1069.8	132	1130	1171.6	48	28.6	1"
44"	1100	1275	58.9	70.0	1153	1120.6	135	1181	1222.4	52	28.6	1"
46"	1150	1340	60.4	73.1	1205	1171.4	143	1235	1284.3	40	31.8	1½"
48"	1200	1390	63.6	76.3	1257	1222.2	148	1289	1335.1	44	31.8	1½"
50"	1250	1445	66.8	79.5	1308	1273.0	152	1340	1385.9	48	31.8	1½"
52"	1300	1495	68.4	82.7	1360	1323.8	156	1391	1436.7	52	31.8	1½"
54"	1350	1550	70.0	85.8	1413	1374.6	160	1441	1492.2	56	31.8	1½"
56"	1400	1600	71.6	89.0	1465	1425.4	165	1492	1543.0	60	31.8	1½"
58"	1450	1675	73.1	91.9	1516	1476.2	173	1543	1611.3	48	34.9	1¼"
60"	1500	1725	74.7	95.4	1570	1527.0	178	1600	1662.1	52	34.9	1¼"

Series B Class 300 (mm)

NPS in	DN	O Outside dia	tf Weld neck	tf Blind	X Hub dia	A Hub at weld	Y Length thru hub	R Raised face dia	W Bolt circle	Holes No.	Hole dia mm	Bolt in
26"	650	865	87.4	87.4	702	665.2	143	737	803.3	32	34.9	1¼"
28"	700	920	87.4	87.4	756	716.0	148	787	857.2	36	34.9	1¼"
30"	750	990	92.1	92.1	813	768.4	156	845	920.8	36	38.1	1½"
32"	800	1055	101.6	101.6	864	819.2	167	902	977.9	32	41.3	1½"
34"	850	1110	101.6	101.6	918	870.0	171	953	1031.9	36	41.3	1½"
36"	900	1170	101.6	101.6	965	920.8	179	1010	1089.0	32	44.5	1½"
38"	950	1220	109.6	109.6	1016	971.6	190	1060	1139.8	36	44.5	1½"
40"	1000	1275	114.3	114.3	1067	1022.4	197	1114	1190.6	40	44.5	1½"
42"	1050	1335	117.5	117.5	1118	1074.7	203	1168	1244.6	36	47.6	1¾"
44"	1100	1385	125.5	125.5	1173	1125.5	213	1219	1295.4	40	47.6	1¾"
46"	1150	1460	127.0	128.6	1229	1176.3	221	1270	1365.2	36	50.8	1½"
48"	1200	1510	127.0	133.4	1278	1227.1	222	1327	1416.0	40	50.8	1½"
50"	1250	1560	136.6	138.2	1330	1277.9	233	1378	1466.8	44	50.8	1½"

NPS in	DN	O Outside dia	tf Weld neck	tf Blind	X Hub dia	A Hub at weld	Y Length thru hub	R Raised face dia	W Bolt circle	Holes No.	Hole dia mm	Bolt in
52"	1300	1615	141.3	142.6	1383	1328.7	241	1429	1517.6	48	50.8	1⅞"
54"	1350	1675	135.0	147.7	1435	1379.5	238	1480	1578.0	48	50.8	1⅞"
56"	1400	1765	152.4	155.4	1494	1430.3	267	1537	1651.0	36	60.3	2¼"
58"	1450	1825	152.4	160.4	1548	1481.1	273	1594	1712.9	40	60.3	2¼"
60"	1500	1880	149.3	165.1	1599	1531.9	270	1651	1763.7	40	60.3	2¼"

Notes

- Dimensions are in millimetres unless stated otherwise.
- Thickness and hub length exclude the raised face: 2 mm for Class 150 and 300.
- Bolt holes are tabulated in inches in the standard; millimetre values are direct conversions.
- Some dimensions do not increase uniformly with size (for example Class 300 thickness at NPS 54" and 60"). This follows the standard.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions and properties before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions.

Teshi Group

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+91 78900 09110
sales@teshigroup.com
www.teshigroup.com