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DIMENSIONAL STANDARD · ASME B16.47

ASME B16.47 Large Diameter Plate & Blind Flange Dimensions

ASME B16.47 Series A and B large-diameter plate and blind flange dimensions, NPS 26–60 (650–1500 NB), Class 150 and 300, in mm.

This chart gives **ASME B16.47 Series A and Series B** large-diameter plate and blind flange dimensions in millimetres for 650 to 1500 NB (NPS 26 to 60), Class 150 and 300 — outside diameter, bore, plate and blind thickness, bolt circle, holes and raised face. Above NPS 60, large-diameter flanges are made to drawing.

Plate flanges are Teshi Group's core product: cut, machined and drilled in our own works in India from DN 10 up to 8000 NB (8 metres), in carbon, boiler-quality, stainless, duplex and nickel-alloy plate, with EN 10204 3.1 certificates.

- **D** Outside diameter of flange
- **B** Bore (inside diameter) of plate flange
- **C** Flange thickness — plate or blind, raised face (RF) or flat face (FF)
- **K** Bolt circle (pitch circle) diameter
- **n** Number of bolt holes
- **L** Bolt hole diameter
- **d1** Raised face diameter
- **f** Raised face height

ASME B16.47 Series A Class 150 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
650	870	806.4	24	34.9	749	2	663.4	66.7	64.7	66.7	64.7
700	925	863.6	28	34.9	800	2	714.2	69.9	67.9	69.9	67.9
750	985	914.4	28	34.9	857	2	765	73.1	71.1	73.1	71.1
800	1060	977.9	28	41.3	914	2	815.8	79.4	77.4	79.4	77.4
850	1110	1028.7	32	41.3	965	2	866.6	81	79	81	79
900	1170	1085.8	32	41.3	1022	2	917.4	88.9	86.9	88.9	86.9
950	1240	1149.4	32	41.3	1073	2	968.2	85.8	83.8	85.8	83.8
1000	1290	1200.2	36	41.3	1124	2	1019	88.9	86.9	88.9	86.9
1050	1345	1257.3	36	41.3	1194	2	1069.8	95.3	93.3	95.3	93.3
1100	1405	1314.4	40	41.3	1245	2	1120.6	100.1	98.1	100.1	98.1
1150	1455	1365.2	40	41.3	1295	2	1171.4	101.6	99.6	101.6	99.6
1200	1510	1422.4	44	41.3	1359	2	1222.2	106.4	104.4	106.4	104.4
1250	1570	1479.6	44	47.6	1410	2	1273	109.6	107.6	109.6	107.6
1300	1625	1536.7	44	47.6	1461	2	1323.8	114.3	112.3	114.3	112.3
1350	1685	1593.8	44	47.6	1511	2	1374.6	119.1	117.1	119.1	117.1
1400	1745	1651	48	47.6	1575	2	1425.4	122.3	120.3	122.3	120.3
1450	1805	1708.2	48	47.6	1626	2	1476.2	127	125	127	125
1500	1855	1759	52	47.6	1676	2	1527	130.2	128.2	130.2	128.2

ASME B16.47 Series A Class 300 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
650	970	876.3	28	44.5	749	2	663.4	77.8	75.8	82.6	80.6
700	1035	939.8	28	44.5	800	2	714.2	84.2	82.2	88.9	86.9
750	1090	997	28	47.6	857	2	765	90.5	88.5	93.7	91.7
800	1150	1054.1	28	50.8	914	2	815.8	96.9	94.9	98.5	96.5
850	1205	1104.9	28	50.8	965	2	866.6	100.1	98.1	103.2	101.2
900	1270	1168.4	32	54	1022	2	917.4	103.2	101.2	109.6	107.6
950	1170	1092.2	32	41.3	1029	2	968.2	106.4	104.4	106.4	104.4
1000	1240	1155.7	32	44.5	1086	2	1019	112.8	110.8	112.8	110.8
1050	1290	1206.5	32	44.5	1137	2	1069.8	117.5	115.5	117.5	115.5
1100	1355	1263.6	32	47.6	1194	2	1120.6	122.3	120.3	122.3	120.3
1150	1415	1320.8	28	50.8	1245	2	1171.4	127	125	127	125
1200	1465	1371.6	32	50.8	1302	2	1222.2	131.8	129.8	131.8	129.8
1250	1530	1428.8	32	54	1359	2	1273	138.2	136.2	138.2	136.2
1300	1580	1479.6	32	54	1410	2	1323.8	142.9	140.9	142.9	140.9
1350	1660	1549.4	28	60.3	1467	2	1374.6	150.9	148.9	150.9	148.9
1400	1710	1600.2	28	60.3	1518	2	1425.4	152.4	150.4	152.4	150.4
1450	1760	1651	32	60.3	1575	2	1476.2	157.2	155.2	157.2	155.2
1500	1810	1701.8	32	60.3	1626	2	1527	162	160	162	160

ASME B16.47 Series B Class 150 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
650	785	744.5	36	22.2	711	2	663.4	39.8	37.8	43	41
700	835	795.3	40	22.2	762	2	714.2	43	41	46.2	44.2
750	885	846.1	44	22.2	813	2	765	43	41	49.3	47.3
800	940	900.1	48	22.2	864	2	815.8	44.6	42.6	52.5	50.5
850	1005	957.3	40	25.4	921	2	866.6	47.7	45.7	55.7	53.7
900	1055	1009.6	44	25.4	972	2	917.4	50.9	48.9	57.3	55.3
950	1125	1070	40	28.6	1022	2	969.7	52.5	50.5	62	60
1000	1175	1120.8	44	28.6	1080	2	1020.5	54.1	52.1	65.2	63.2
1050	1225	1171.6	48	28.6	1130	2	1071.3	57.3	55.3	66.8	64.8
1100	1275	1222.4	52	28.6	1181	2	1122.1	58.9	56.9	70	68
1150	1340	1284.3	40	31.8	1235	2	1172.9	60.4	58.4	73.1	71.1
1200	1390	1335.1	44	31.8	1289	2	1223.7	63.6	61.6	76.3	74.3
1250	1445	1385.9	48	31.8	1340	2	1274.5	66.8	64.8	79.5	77.5

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
1300	1495	1436.7	52	31.8	1391	2	1325.3	68.4	66.4	82.7	80.7
1350	1550	1492.2	56	31.8	1441	2	1376.1	70	68	85.8	83.8
1400	1600	1543	60	31.8	1492	2	1426.9	71.6	69.6	89	87
1450	1675	1611.3	48	34.9	1543	2	1477.7	73.1	71.1	91.9	89.9
1500	1725	1662.1	52	34.9	1600	2	1528.5	74.7	72.7	95.4	93.4

ASME B16.47 Series B Class 300 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
650	865	803.3	32	34.9	737	2	666.7	87.7	85.7	87.7	85.7
700	920	857.2	36	34.9	787	2	717.5	87.4	85.4	87.4	85.4
750	990	920.8	36	38.1	845	2	769.9	92.1	90.1	92.1	90.1
800	1055	977.9	32	41.3	902	2	820.7	101.6	99.6	101.6	99.6
850	1110	1031.9	36	41.3	953	2	871.5	101.6	99.6	101.6	99.6
900	1170	1089	32	44.5	1010	2	922.3	101.6	99.6	101.6	99.6
950	1220	1139.8	36	44.5	1060	2	973.1	109.6	107.6	109.6	107.6
1000	1275	1190.6	40	44.5	1114	2	1023.9	114.3	112.3	114.3	112.3
1050	1335	1244.6	36	47.6	1168	2	1076.2	117.5	115.5	117.5	115.5
1100	1385	1295.4	40	47.6	1219	2	1127	125.5	123.5	125.5	123.5
1150	1460	1365.2	36	50.8	1270	2	1177.8	127	125	128.6	126.6
1200	1510	1416	40	50.8	1327	2	1228.6	127	125	133.4	131.4
1250	1560	1466.8	44	50.8	1378	2	1279.4	136.6	134.6	138.2	136.2
1300	1615	1517.6	48	50.8	1429	2	1330.2	141.3	139.3	142.6	140.6
1350	1675	1578	48	50.8	1480	2	1381	135	133	147.7	145.7
1400	1765	1651	36	60.3	1537	2	1431.8	152.4	150.4	155.4	153.4
1450	1825	1712.9	40	60.3	1594	2	1482.6	152.4	150.4	160.4	158.4
1500	1880	1763.7	40	60.3	1651	2	1533.4	149.3	147.3	165.1	163.1

Notes

- All dimensions are in millimetres; sizes are nominal bore (NB / DN).
- Plate flange thickness is given for raised-face (RF) and flat-face (FF) flanges; where only RF is shown, the FF thickness is the same.
- Reference values for estimation and checking. Verify against the current edition of the standard and the purchase specification before design, purchase or fabrication.

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