

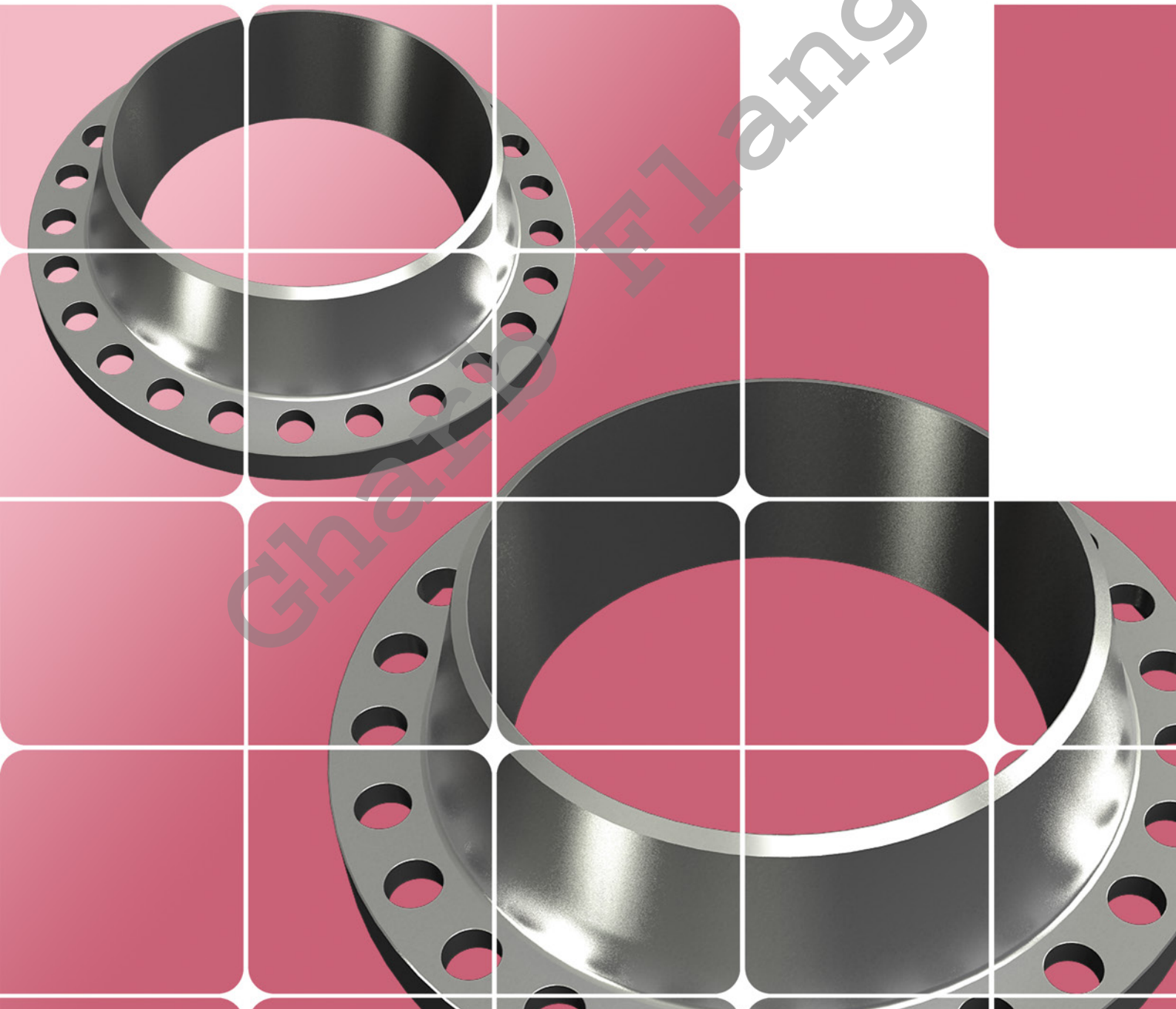


**GharbFlange**  
Since 1979

# MSS FLANGES



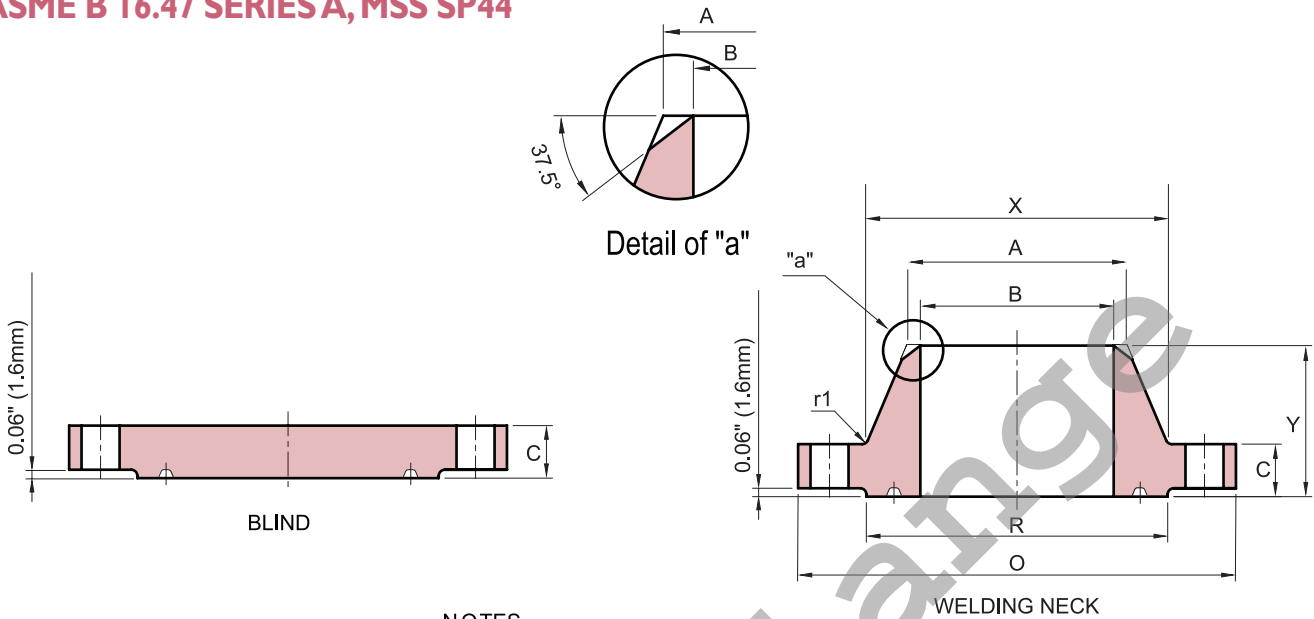
- Class 150 Flanges
- Class 300 Flanges
- Class 600 Flanges
- Class 900 Flanges





## CLASS 150 FLANGES

ASME B 16.47 SERIES A, MSS SP44



NOTES  
B = Bore size to be specified by customer.

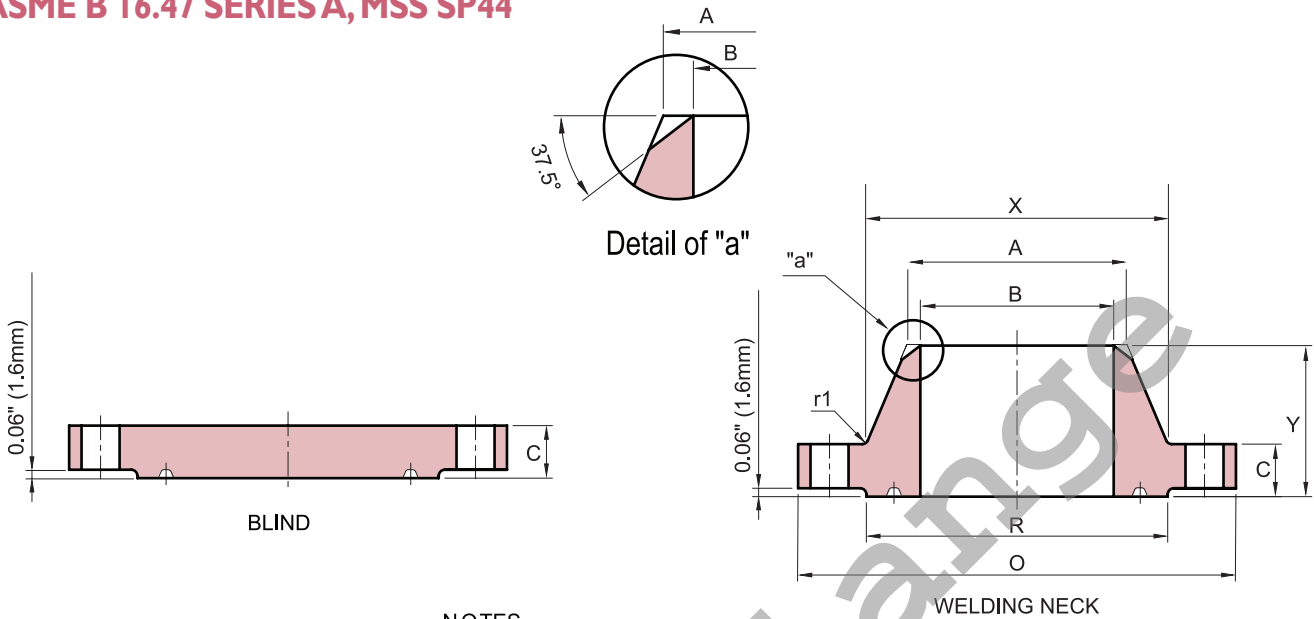
Unit : mm

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Through Hub	Diam. of Hub	Hub Diam. Top	Raised Face Diam.	Drilling			Diam. of Bolt (inch)	Fillet Radius Min.
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		
		O	C									Y
26	870.0	68.3	68.3	120.7	676.1	660.4	749.3	806.5	24	35.1	1 1/4	9.7
28	927.1	71.4	71.4	125.5	726.9	711.2	800.1	863.6	28	35.1	1 1/4	11.2
30	984.3	74.7	74.7	136.7	781.1	762.0	857.3	914.4	28	35.1	1 1/4	11.2
32	1060.5	81.0	81.0	144.5	831.9	812.8	914.4	977.9	28	41.1	1 1/2	11.2
34	1111.3	82.6	82.6	149.4	882.7	863.6	965.2	1028.7	32	41.1	1 1/2	12.7
36	1168.4	90.4	90.4	157.2	933.5	914.4	1022.4	1085.9	32	41.1	1 1/2	12.7
38	1238.3	87.4	87.4	157.2	990.6	965.2	1073.2	1149.4	32	41.1	1 1/2	12.7
40	1289.1	90.4	90.4	163.6	1041.4	1016.0	1124.0	1200.2	36	41.1	1 1/2	12.7
42	1346.2	96.8	96.8	171.5	1092.2	1066.8	1193.8	1257.3	36	41.1	1 1/2	12.7
44	1403.4	101.6	101.6	177.8	1143.0	1117.6	1244.6	1314.5	40	41.1	1 1/2	12.7
46	1454.2	103.1	103.1	185.7	1196.8	1168.4	1295.4	1365.3	40	41.1	1 1/2	12.7
48	1511.3	108.0	108.0	192.0	1247.6	1219.2	1358.9	1422.4	44	41.1	1 1/2	12.7
50	1568.5	111.3	111.3	203.2	1301.8	1270.0	1409.7	1479.6	44	47.8	1 3/4	12.7
52	1625.6	115.8	115.8	209.6	1352.6	1320.8	1460.5	1536.7	44	47.8	1 3/4	12.7
54	1682.8	120.7	120.7	215.9	1403.4	1371.6	1511.3	1593.9	44	47.8	1 3/4	12.7
56	1746.3	124.0	124.0	228.6	1457.5	1422.4	1574.8	1651.0	48	47.8	1 3/4	12.7
58	1803.4	128.5	128.5	235.0	1508.3	1473.2	1625.6	1708.2	48	47.8	1 3/4	12.7
60	1854.2	131.8	131.8	239.8	1559.1	1524.0	1676.4	1759.0	52	47.8	1 3/4	12.7



## CLASS 300 FLANGES

### ASME B 16.47 SERIES A, MSS SP44



NOTES  
B = Bore size to be specified by customer.

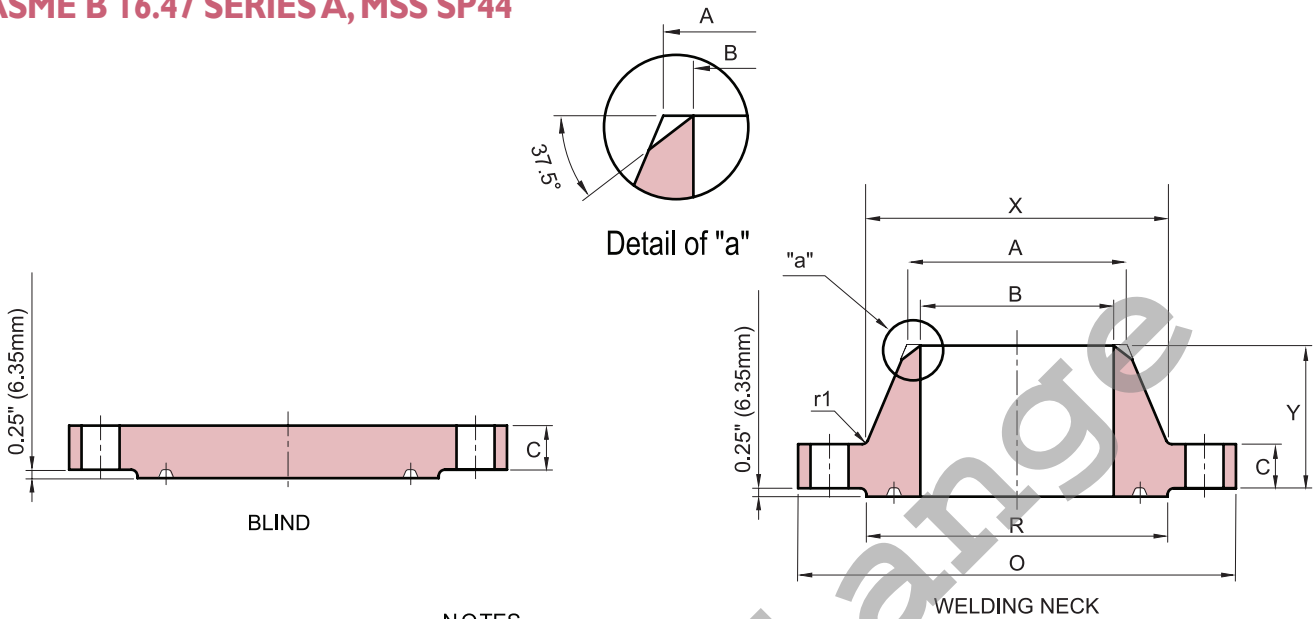
Unit : mm

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Through Hub Y	Diam. of Hub X	Hub Diam. Top A	Raised Face Diam. R	Drilling			Diam. of Bolt (inch)	Fillet Radius Min. r1
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		
		O	C									C
26	971.6	79.2	84.1	184.2	720.9	660.4	749.3	876.3	28	44.5	1 5/8	9.7
28	1035.1	85.9	90.4	196.9	774.7	711.2	800.1	939.8	28	44.5	1 5/8	11.2
30	1092.2	91.9	95.3	209.6	827.0	762.0	857.3	997.0	28	47.8	1 3/4	11.2
32	1149.4	98.6	100.1	222.3	881.1	812.8	914.4	1054.1	28	50.8	1 7/8	11.2
34	1206.5	101.6	104.6	231.6	936.8	863.6	965.2	1104.9	28	50.8	1 7/8	12.7
36	1270.0	104.6	111.3	241.3	990.6	914.4	1022.4	1168.4	32	53.8	2	12.7
38	1168.4	108.0	108.0	180.8	993.6	965.2	1028.7	1092.2	32	41.1	1 1/2	12.7
40	1238.3	114.3	114.3	193.5	1047.8	1016.0	1085.9	1155.7	32	44.5	1 5/8	12.7
42	1289.1	119.1	119.1	200.2	1098.6	1066.8	1136.7	1206.5	32	44.5	1 5/8	12.7
44	1352.6	124.0	124.0	206.2	1149.4	1117.6	1193.8	1263.7	32	47.8	1 3/4	12.7
46	1416.1	128.5	128.5	215.9	1203.5	1168.4	1244.6	1320.8	28	50.8	1 7/8	12.7
48	1466.9	133.4	133.4	223.8	1254.3	1219.2	1301.8	1371.6	32	50.8	1 7/8	12.7
50	1530.4	139.7	139.7	231.6	1305.1	1270.0	1358.9	1428.8	32	53.8	2	12.7
52	1581.2	144.5	144.5	238.3	1355.9	1320.8	1409.7	1479.6	32	53.8	2	12.7
54	1657.4	152.4	152.4	252.5	1409.7	1371.6	1466.9	1549.4	28	60.5	2 1/4	12.7
56	1708.2	153.9	153.9	260.4	1463.5	1422.4	1517.7	1600.2	28	60.5	2 1/4	12.7
58	1759.0	158.8	158.8	266.7	1514.3	1473.2	1574.8	1651.0	32	60.5	2 1/4	12.7
60	1809.8	163.6	163.6	273.1	1565.1	1524.0	1625.6	1701.8	32	60.5	2 1/4	12.7



## CLASS 600 FLANGES

### ASME B 16.47 SERIES A, MSS SP44



NOTES  
B = Bore size to be specified by customer.

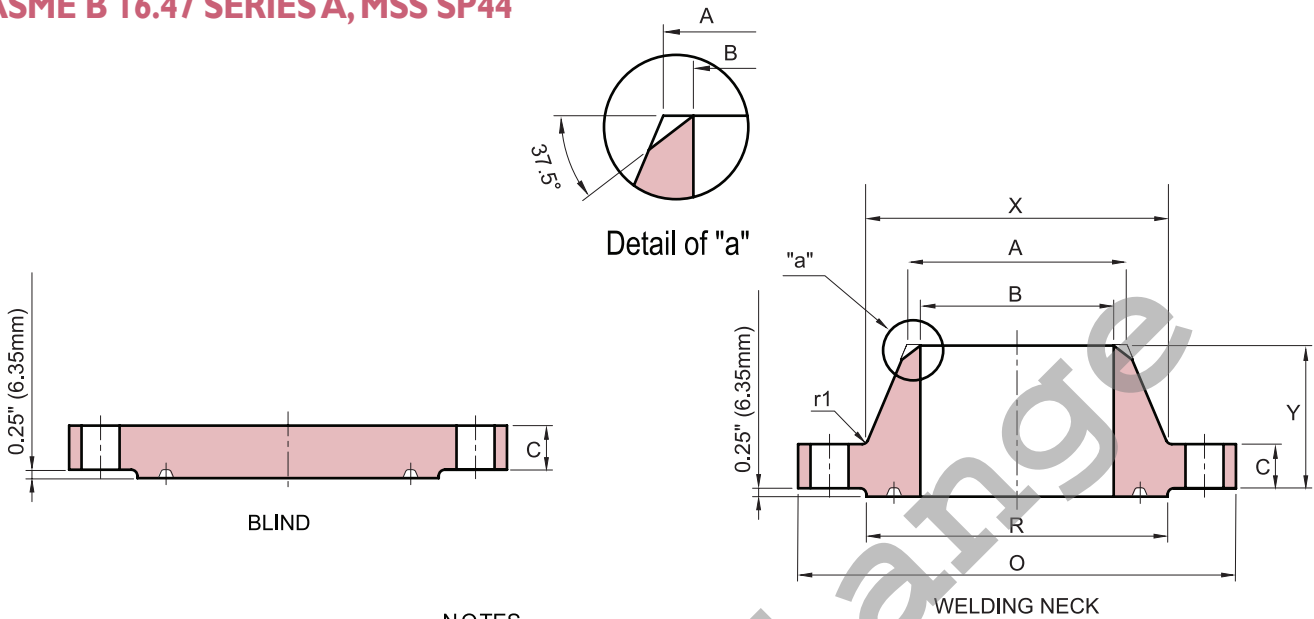
Unit : mm

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Through Hub Y	Diam. of Hub X	Hub Diam. Top A	Raised Face Diam. R	Drilling			Diam. of Bolt (inch)	Fillet Radius Min. r1
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		
		O	C									C
26	1016.0	108.0	125.5	222.3	747.8	660.4	749.3	914.4	28	50.8	1 7/8	12.7
28	1073.2	111.3	131.8	235.0	803.1	711.2	800.1	965.2	28	53.8	2	12.7
30	1130.3	114.3	139.7	247.7	862.1	762.0	857.3	1022.4	28	53.8	2	12.7
32	1193.8	117.3	147.6	260.4	917.4	812.8	914.4	1079.5	28	60.5	2 1/4	12.7
34	1244.6	120.7	153.9	269.7	973.1	863.6	965.2	1130.3	28	60.5	2 1/4	14.2
36	1314.5	124.0	162.1	282.4	1031.7	914.4	1022.4	1193.8	28	66.5	2 1/2	14.2
38	1270.0	152.4	155.4	254.0	1022.4	965.2	1054.1	1162.1	28	60.5	2 1/4	14.2
40	1320.8	158.8	162.1	263.7	1073.2	1016.0	1111.3	1212.9	32	60.5	2 1/4	14.2
42	1403.4	168.1	171.5	279.4	1127.3	1066.8	1168.4	1282.7	28	66.5	2 1/2	14.2
44	1454.2	173.0	177.8	289.1	1181.1	1117.6	1225.6	1333.5	32	66.5	2 1/2	14.2
46	1511.3	179.3	185.7	300.0	1234.9	1168.4	1276.4	1390.7	32	66.5	2 1/2	14.2
48	1593.9	189.0	195.3	316.0	1289.1	1219.2	1333.5	1460.5	32	73.2	2 3/4	14.2
50	1670.1	196.9	203.2	328.7	1343.2	1270.0	1384.3	1524.0	28	79.2	3	14.2
52	1720.9	203.2	209.6	336.6	1394.0	1320.8	1435.1	1574.8	32	79.2	3	14.2
54	1778.0	209.6	217.4	349.3	1447.8	1371.6	1492.3	1632.0	32	79.2	3	14.2
56	1854.2	217.4	225.6	362.0	1501.6	1422.4	1543.1	1695.5	32	85.9	3 1/4	15.7
58	1905.0	222.3	231.6	369.8	1552.4	1473.2	1600.2	1746.3	32	85.9	3 1/4	15.7
60	1993.9	233.4	242.8	388.9	1609.9	1524.0	1657.4	1822.5	28	91.9	3 1/2	17.5



## CLASS 900 FLANGES

### ASME B 16.47 SERIES A, MSS SP44



NOTES  
B = Bore size to be specified by customer.

Unit : mm

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Through Hub Y	Diam. of Hub X	Hub Diam. Top A	Raised Face Diam. R	Drilling			Diam. of Bolt (inch)	Fillet Radius Min. r1
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		
		O	C									C
26	1085.9	139.7	160.3	285.8	774.7	660.4	749.3	952.5	20	73.2	2 3/4	11.2
28	1168.4	142.7	171.5	298.5	831.9	711.2	800.1	1022.4	20	79.2	3	12.7
30	1231.9	149.4	182.4	311.2	889.0	762.0	857.3	1085.9	20	79.2	3	12.7
32	1314.5	158.8	193.5	330.2	946.2	812.8	914.4	1155.7	20	85.9	3 1/4	12.7
34	1397.0	165.1	204.7	349.3	1006.3	863.6	965.2	1225.6	20	91.9	3 1/2	14.2
36	1460.5	171.5	214.4	362.0	1063.8	914.4	1022.4	1289.1	20	91.9	3 1/2	14.2
38	1460.5	190.5	215.9	352.6	1073.2	965.2	1098.6	1289.1	20	91.9	3 1/2	19.1
40	1511.3	196.9	223.8	363.5	1127.3	1016.0	1162.1	1339.9	24	91.9	3 1/2	20.6
42	1562.1	206.2	231.6	371.3	1176.3	1066.8	1212.9	1390.7	24	91.9	3 1/2	20.6
44	1648.0	214.4	242.8	390.7	1234.9	1117.6	1270.0	1463.5	24	98.6	3 3/4	22.4
46	1733.6	225.6	255.5	411.0	1292.4	1168.4	1333.5	1536.7	24	104.6	4	22.4
48	1784.4	233.4	263.7	419.1	1343.2	1219.2	1384.3	1587.5	24	104.6	4	23.9
50	To be specified by customer.											
52												
54												
56												
58												
60												

To be specified by customer.