

BMS 06 - ASME B16.47 Series B Dimensional Tables & Tolerances
 (All Class Ratings)
 (Formerly API 605)

Issued by: A D Senior

Date: 1st Jan 2011

Page: 1 of 6

Class 150 LB Rated - Dimensions are in Millimetres

NOM BORE INCHES	CENTERING RING		SEALING ELEMENT		INNER RING	
	OD	ID	OD	ID	OD	ID
	mm	mm	mm	mm	mm	mm
	d4		d3	d2		d1
26	725.4	697.0	698.5	673.1	674.6	654.1
28	776.2	747.8	749.3	723.9	725.4	704.9
30	827.0	798.6	800.1	774.7	776.2	755.7
32	881.1	849.4	850.9	825.5	827.0	806.5
34	935.0	906.5	908.1	876.3	877.8	857.3
36	987.6	957.3	958.9	927.1	928.6	908.1
38	1044.7	1008.1	1009.7	974.9	976.0	958.9
40	1095.5	1062.2	1063.8	1022.4	1023.8	1009.7
42	1146.3	1113.0	1114.6	1079.5	1081.0	1060.5
44	1197.1	1163.8	1165.4	1124.0	1125.4	1111.3
46	1255.8	1222.5	1224.0	1181.1	1182.6	1162.1
48	1306.6	1268.5	1270.0	1231.9	1233.4	1212.9
50	1357.4	1324.1	1325.6	1282.7	1284.2	1263.7
52	1408.2	1374.9	1376.4	1333.5	1335.0	1314.5
54	1463.8	1420.9	1422.4	1384.3	1385.8	1365.3
56	1514.6	1476.2	1478.0	1444.8	1446.2	1422.4
58	1579.6	1527.3	1528.8	1500.1	1501.8	1478.0
60	1630.4	1584.4	1586.0	1557.3	1558.7	1535.2

Note:

Sales "must" confirm initial thickness for all gaskets above 1 Metre in diameter.
 All gaskets above 50" Nominal Bore are recommended to be a thickness of either 6.4mm or 7.2mm.

Class 300 LB Rated - Dimensions are in Millimetres

UNCONTROLLED IF PRINTED – Verify date of issue before use

BMS 06 - ASME B16.47 Series B Dimensional Tables & Tolerances
 (All Class Ratings)
 (Formerly API 605)

Issued by: A D Senior

Date: 1st Jan 2011

Page: 2 of 6

NOM BORE INCHES	CENTERING RING		SEALING ELEMENT		INNER RING	
	OD	ID	OD	ID	OD	ID
	mm	mm	mm	mm	mm	mm
	d4		d3	d2		d1
26	771.7	709.7	711.2	673.1	674.6	654.1
28	825.5	760.5	762.0	723.9	725.4	704.9
30	886.0	811.3	812.8	774.7	776.2	755.7
32	939.8	862.1	863.6	825.5	827.0	806.5
34	993.9	912.9	914.4	876.3	877.8	857.3
36	1047.8	963.7	965.2	927.1	928.6	908.1
38	1098.6	1046.2	1047.8	1009.7	1011.1	971.6
40	1149.4	1097.0	1098.6	1060.5	1061.9	1022.4
42	1200.2	1147.8	1149.4	1111.3	1112.7	1085.9
44	1251.0	1198.6	1200.2	1162.1	1163.5	1124.0
46	1317.8	1252.7	1254.3	1216.2	1217.6	1178.1
48	1368.6	1309.9	1311.4	1263.7	1265.1	1231.9
50	1419.4	1354.3	1355.9	1317.8	1319.2	1267.0
52	1470.2	1405.1	1406.7	1368.6	1370.0	1317.8
54	1530.4	1452.6	1454.2	1403.4	1404.8	1365.3
56	1593.9	1522.5	1524.0	1479.6	1481.0	1428.8
58	1655.8	1571.7	1573.3	1535.2	1536.6	1484.4
60	1706.6	1628.9	1630.4	1589.0	1590.5	1557.3

Note:

Sales "must" confirm initial thickness for all gaskets above 1 Metre in diameter.

All gaskets above 50" Nominal Bore are recommended to be a thickness of either 6.4mm or 7.2mm.

Class 400 LB Rated - Dimensions are in Millimetres

UNCONTROLLED IF PRINTED – Verify date of issue before use

BMS 06 - ASME B16.47 Series B Dimensional Tables & Tolerances
 (All Class Ratings)
 (Formerly API 605)

Issued by: A D Senior

Date: 1st Jan 2011

Page: 3 of 6

NOM BORE INCHES	CENTERING RING		SEALING ELEMENT		INNER RING	
	OD	ID	OD	ID	OD	ID
	mm	mm	mm	mm	mm	mm
	d4		d3	d2		d1
26	746.3	697.0	698.5	666.8	668.2	654.1
28	800.1	747.8	749.3	714.5	716.0	701.8
30	857.3	804.9	806.5	765.3	766.8	752.6
32	911.4	859.0	860.6	812.8	814.3	800.1
34	962.2	909.8	911.4	866.9	868.4	850.9
36	1022.4	963.7	965.2	917.7	919.2	898.7
38	1073.2	1020.8	1022.4	971.6	973.0	952.5
40	1127.3	1074.9	1076.5	1025.7	1027.1	1000.3
42	1178.1	1125.7	1127.3	1076.5	1077.9	1051.1
44	1231.9	1179.6	1181.1	1130.3	1131.8	1104.9
46	1289.1	1243.1	1244.6	1193.8	1195.3	1168.4
48	1346.2	1293.9	1295.4	1244.6	1246.1	1206.5
50	1403.4	1344.7	1346.2	1295.4	1296.9	1257.3
52	1454.2	1395.5	1397.0	1346.2	1347.7	1308.1
54	1517.7	1452.6	1454.2	1403.4	1404.8	1352.6
56	1568.5	1503.4	1505.0	1454.2	1455.6	1403.4
58	1619.3	1554.2	1555.8	1505.0	1506.4	1454.2
60	1682.8	1617.7	1619.3	1568.5	1569.9	1517.7

Note:

Sales "must" confirm initial thickness for all gaskets above 1 Metre in diameter.
 All gaskets above 50" Nominal Bore are recommended to be a thickness of either 6.4mm or 7.2mm

Class 600 LB Rated - Dimensions are in Millimetres

BMS 06 - ASME B16.47 Series B Dimensional Tables & Tolerances
 (All Class Ratings)
 (Formerly API 605)

Issued by: A D Senior

Date: 1st Jan 2011

Page: 4 of 6

NOM BORE INCHES	CENTERING RING		SEALING ELEMENT		INNER RING	
	OD	ID	OD	ID	OD	ID
	mm	mm	mm	mm	mm	mm
	d4		d3	d2		d1
26	765.3	713.0	714.5	663.7	665.2	644.7
28	819.2	754.1	755.7	704.9	706.3	685.8
30	879.6	827.3	828.8	778.0	779.5	752.6
32	933.5	881.1	882.7	831.9	833.3	793.8
34	997.0	938.3	939.8	889.0	890.5	850.9
36	1047.8	989.1	990.6	939.8	941.3	901.7
38	1104.9	1039.9	1041.4	990.6	992.1	952.5
40	1155.7	1097.0	1098.6	1047.8	1049.2	1009.7
42	1219.2	1154.2	1155.7	1104.9	1106.4	1066.8
44	1270.0	1211.3	1212.9	1162.1	1163.5	1111.3
46	1327.2	1262.1	1263.7	1212.9	1214.3	1162.1
48	1390.7	1319.3	1320.8	1270.0	1271.5	1219.2
50	1447.8	1370.1	1371.6	1320.8	1322.3	1270.0
52	1498.6	1420.9	1422.4	1371.6	1373.1	1320.8
54	1555.8	1478.0	1479.6	1428.8	1430.2	1378.0
56	1612.9	1528.8	1530.4	1479.6	1481.0	1428.8
58	1663.7	1586.0	1587.5	1536.7	1538.2	1473.2
60	1733.6	1643.1	1644.7	1593.9	1595.3	1530.4

Note:

Sales "must" confirm initial thickness for all gaskets above 1 Metre in diameter.
 All gaskets above 50" Nominal Bore are recommended to be a thickness of either 6.4mm or 7.2mm

Class 900 LB Rated - Dimensions are in Millimetres

UNCONTROLLED IF PRINTED – Verify date of issue before use

BMS 06 - ASME B16.47 Series B Dimensional Tables & Tolerances
 (All Class Ratings)
 (Formerly API 605)

Issued by: A D Senior

Date: 1st Jan 2011

Page: 5 of 6

NOM BORE INCHES	CENTERING RING		SEALING ELEMENT		INNER RING	
	OD	ID	OD	ID	OD	ID
	mm	mm	mm	mm	mm	mm
	d4		d3	d2		d1
26	838.2	747.8	749.3	692.2	693.6	666.8
28	901.7	798.6	800.1	743.0	744.4	717.6
30	958.9	855.7	857.3	806.5	807.9	781.1
32	1016.0	912.9	914.4	863.6	865.1	838.2
34	1073.2	970.0	971.6	920.8	922.2	895.4
36	1124.0	995.4	997.0	946.2	947.6	920.8
38	1200.2	1084.3	1085.9	1035.1	1036.5	1009.7
40	1251.0	1147.8	1149.4	1098.6	1100.0	1060.5
42	1301.8	1198.6	1200.2	1149.4	1150.8	1111.3
44	1368.6	1255.8	1257.3	1206.5	1208.0	1155.7
46	1435.1	1319.3	1320.8	1270.0	1271.5	1219.2
48	1485.9	1370.1	1371.6	1320.8	1322.3	1270.0

Note:

Sales "must" confirm initial thickness for all gaskets above 1 Metre in diameter.

All gaskets above 50" Nominal Bore are recommended to be a thickness of either 6.4mm or 7.2mm

Tolerances - ASME B16.47 Series B - In Millimetres

BMS 06 - ASME B16.47 Series B Dimensional Tables & Tolerances
 (All Class Ratings)
 (Formerly API 605)

Issued by: A D Senior

Date: 1st Jan 2011

Page: 6 of 6

	CENTERING RING			SEALING ELEMENT			INNER RING		
	O/D	I/D	THK	O/D	I/D	THK	O/D	I/D	THK
26" - 34" NPS	+ 0.76 - 0.76	* F	2.97 to 3.32	+ 1.52 - 1.52	+ 0.76 - 0.76	4.5 + 0.13 4.5 - 0.13	* G	+ 3.04 - 3.04	2.97 to 3.32
36" - 60" NPS	+ 0.76 - 0.76	* F	2.97 to 3.32	+ 1.52 - 1.52	+ 1.27 - 1.27	4.5 + 0.13 4.5 - 0.13	* H	+ 3.04 - 3.04	

- * F External guide ring inside diameter tolerance not stated in ASME B16.47. Standard practice is to use same tolerance as given for inside diameter of sealing element + / - 1.52.
- * G Internal guide ring outside diameter tolerance not stated in ASME B16.47. Standard practice is to use same tolerance as given for inside diameter of sealing element + / - 0.76mm.
- * H Internal guide ring outside diameter tolerance not stated in ASME B16.47. Standard practice is to use same tolerance as given for inside diameter of sealing element + / - 1.27mm.