

BMS 25 - ASME B16.47 A (Formerly MSS SP44)
- Non – Metallic Gaskets Dimensions & Tolerances

Issued by: A D Senior

Date: 1st Jan 2011

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Class 150Lb - Dimensions in millimetres

Nominal Bore	Flat Ring and Full Face Gasket		Flat Ring Gasket		Full Face gasket						
	Inner Diameter		Outer Diameter		Outer Diameter		Bolt Circle Diameter		Diameter of Holes		Number of Bolt Holes
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
22	22	558.8	26	660.4	29 1/2	749.3	1 3/8	34.9	27 1/4	692.2	20
26	26	660.4	30 1/2	774.7	34 1/4	870.0	1 3/8	34.9	31 3/4	806.5	24
28	28	711.2	32 3/4	831.9	36 1/2	927.1	1 3/8	34.9	34	863.6	28
30	30	762.0	34 3/4	882.7	38 3/4	984.3	1 3/8	34.9	36	914.4	28
32	32	812.8	37	939.8	41 3/4	1060.5	1 5/8	41.3	38 1/2	977.9	28
34	34	863.6	39	990.6	43 3/4	1111.3	1 5/8	41.3	40 1/2	1028.7	32
36	36	914.4	41 1/4	1047.8	46	1168.4	1 5/8	41.3	42 3/4	1085.9	32
38	38	965.2	43 3/4	1111.3	48 3/4	1238.3	1 5/8	41.3	45 1/4	1149.4	32
40	40	1016.0	45 3/4	1162.1	50 3/4	1289.1	1 5/8	41.3	47 1/4	1200.2	36
42	42	1066.8	48	1219.2	53	1346.2	1 5/8	41.3	49 1/2	1257.3	36
44	44	1117.6	50 1/4	1276.4	55 1/4	1403.4	1 5/8	41.3	51 3/4	1314.5	40
46	46	1168.4	52 1/4	1327.2	57 1/4	1454.2	1 5/8	41.3	53 3/4	1365.3	40
48	48	1219.2	54 1/2	1384.3	59 1/2	1511.3	1 5/8	41.3	56	1422.4	44
50	50	1270.0	56 1/2	1435.1	61 3/4	1568.5	1 7/8	47.6	58 1/4	1479.6	44
52	52	1320.8	58 3/4	1492.3	64	1625.6	1 7/8	47.6	60 1/2	1536.7	44
54	54	1371.6	61	1549.4	66 1/4	1682.8	1 7/8	47.6	62 3/4	1593.9	44
56	56	1422.4	63 1/4	1606.6	68 3/4	1746.3	1 7/8	47.6	65	1651.0	48
58	58	1473.2	65 1/2	1663.7	71	1803.4	1 7/8	47.6	67 1/4	1708.2	48
60	60	1524.0	67 1/2	1714.5	73	1854.2	1 7/8	47.6	69 1/4	1759.0	52

Class 300Lb - Dimensions in millimetres

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Nominal Bore	Flat Ring and Full Face Gasket		Flat Ring Gasket		Full Face gasket						
	Inner Diameter		Outer Diameter		Outer Diameter		Bolt Circle Diameter		Diameter of Holes		Number of Bolt Holes
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
22	22	558.8	27 3/4	704.9	33	838.2	1 5/8	41.3	29 1/4	743.0	24
26	26	660.4	32 22/25	835.2	38 1/4	971.6	1 3/4	44.5	34 1/2	876.3	28
28	28	711.2	35 19/50	898.7	40 3/4	1035.1	1 3/4	44.5	37	939.8	28
30	30	762.0	37 1/2	952.5	43	1092.2	1 7/8	47.6	39 1/4	997.0	28
32	32	812.8	39 46/73	1006.6	45 1/4	1149.4	2	50.8	41 1/2	1054.1	28
34	34	863.6	41 31/50	1057.1	47 1/2	1206.5	2	50.8	43 1/2	1104.9	28
36	36	914.4	44	1117.6	50	1270.0	2 1/8	54.0	46	1168.4	32
38	38	965.2	41 1/2	1054.1	46	1168.4	1 5/8	41.3	43	1092.2	32
40	40	1016.0	43 22/25	1114.6	47 1/2	1206.5	1 3/4	44.5	45 1/2	1155.7	32
42	42	1066.8	45 22/25	1165.4	50 3/4	1289.1	1 3/4	44.5	47 1/2	1206.5	32
44	44	1117.6	48	1219.2	53 3/4	1365.3	1 7/8	47.6	49 3/4	1263.7	32
46	46	1168.4	50 3/25	1273.0	55 3/4	1416.1	2	50.8	52	1320.8	28
48	48	1219.2	52 3/25	1323.8	57 3/4	1466.9	2	50.8	54	1371.6	32
50	50	1270.0	54 1/4	1378.0	60 1/4	1530.4	2 1/8	54.0	56 1/4	1428.8	32
52	52	1320.8	56 1/4	1428.8	62 1/4	1581.2	2 1/8	54.0	58 1/4	1479.6	32
54	54	1371.6	58 3/4	1492.3	65 1/4	1657.4	2 3/8	60.3	61	1549.4	28
56	56	1422.4	60 3/4	1543.1	67 1/4	1708.2	2 3/8	60.3	63	1600.2	28
58	58	1473.2	62 3/4	1593.9	69 1/4	1759.0	2 3/8	60.3	65	1651.0	32
60	60	1524.0	64 3/4	1644.7	71 1/4	1809.8	2 3/8	60.3	67	1701.8	32

Class 600Lb - Dimensions in millimetres

Flat Ring and Full Face Gasket	Flat Ring Gasket	Full Face gasket
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Nominal Bore	Inner Diameter		Outer Diameter		Outer Diameter		Bolt Circle Diameter		Diameter of Holes		Number of Bolt Holes
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
22	22	558.8	28 7/8	733.4	34 1/4	870.0	1 7/8	47.6	30 5/8	777.9	24
26	26	660.4	34 1/8	866.8	40	1016.0	2	50.8	36	914.4	28
28	28	711.2	36	914.4	42 1/4	1073.2	2 1/8	54.0	38	965.2	28
30	30	762.0	38 1/4	971.6	44 1/2	1130.3	2 1/8	54.0	40 1/4	1022.4	28
32	32	812.8	40 1/4	1022.4	47	1193.8	2 3/8	60.3	42 1/2	1079.5	28
34	34	863.6	42 1/4	1073.2	49	1244.6	2 3/8	60.3	44 1/2	1130.3	28
36	36	914.4	44 1/2	1130.3	51 3/4	1314.5	2 5/8	66.7	47	1193.8	32
38	38	965.2	43 1/2	1104.9	50	1270.0	2 3/8	60.3	45 3/4	1162.1	32
40	40	1016.0	45 1/2	1155.7	52	1320.8	2 3/8	60.3	47 3/4	1212.9	32
42	42	1066.8	48	1219.2	55 1/4	1403.4	2 5/8	66.7	50 1/2	1282.7	32
44	44	1117.6	50	1270.0	57 1/4	1454.2	2 5/8	66.7	52 1/2	1333.5	32
46	46	1168.4	52 1/4	1327.2	59 1/2	1511.3	2 5/8	66.7	54 3/4	1390.7	28
48	48	1219.2	54 3/4	1390.7	62 3/4	1593.9	2 7/8	73.0	57 1/2	1460.5	32
50	50	1270.0	57	1447.8	65 3/4	1670.1	3 1/8	79.4	60	1524.0	32
52	52	1320.8	59	1498.6	67 3/4	1720.9	3 1/8	79.4	62	1574.8	32
54	54	1371.6	61 1/4	1555.8	70	1778.0	3 1/8	79.4	64 1/4	1632.0	28
56	56	1422.4	63 1/2	1612.9	73	1854.2	3 3/8	85.7	66 3/4	1695.5	28
58	58	1473.2	65 1/2	1663.7	75	1905.0	3 3/8	85.7	68 3/4	1746.3	32
60	60	1524.0	67 3/4	1720.9	78 1/2	1993.9	3 5/8	92.1	71 1/4	1809.8	32

Unless otherwise specified on the works order, tolerances shall be in accordance as follows:

- i.e. Outside Diameter < NPS 300mm - + 0 / - 1.50 mm
> NPS 350mm - + 0 / - 3.00 mm
- Inside Diameter < NPS 300mm - + / - 1.50 mm
> NPS 350mm - + / - 1.50 mm

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	<p align="center">Operational Procedure - Rev 0</p>	<p align="right">NWP 01 - Rev 1</p>	
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Bolt circle diameter + / - 1.50 mm

Centre to centre of adjacent bolt holes + / - 0.76 mm