

BMS 27 BS 10 (BS3063-1965 -Tables A, D, E, F, H, J, K, R & S  
Non-Metallic Dimensions & Tolerances - Raised Face

Issued by: A D Senior

Date: 1st Jan 2011

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**Table A** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES	NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	52.4	21.4	D-E-F	20"	616	533.4	D-E
3/4"	58.8	27	D-E-F	21"	647.7	558.8	D
1"	68.3	34.1	D-E-F-H	22"	669.9	584.2	D-E
1 1/4"	73	42.9	D-E	23"	695.3	609.6	D-E
1 1/2"	84.2	48.4	D-E	24"	727.1	635	D
2"	95.3	60.3	D-E	27"	777.9	711.2	D
2 1/2"	108	76.2	D-E	29"	828.7	762	-
3"	127	88.9	D-E	30"	854.1	787.4	-
3 1/2"	146.1	101.6	D-E	33"	936.6	863.6	-
4"	158.8	114.3	D-E	35"	987.4	914.4	-
5"	190.5	139.7	D-E	36"	1012.8	939.8	-
6"	215.9	168.3	D	39"	1089	1016	-
7"	241.3	193.7	D	42"	1165.2	1092.2	-
8"	273.1	219.1	D	45"	1247.8	1168.4	-
9"	304.8	244.5	D	48"	1324	1244.6	-
10"	333.4	273.1	D-E	54"	1495.4	1397	D
12"	384.2	323.9	D	60"	1666.9	1549.4	-
13"	415.9	355.6	D	66"	1825.6	1708.2	-
14"	444.5	381	D-E	72"	1981.2	1860.6	-
15"	469.9	406.4	D-E				
16"	495.3	431.8	D-E				
17"	527.1	457.2	D-E				
18"	558.8	482.6	D-E				
19"	584.2	508	D-E				

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**Table D** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES	NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	52.4	21.4	A-E-F	20"	616.0	533.4	A-E
3/4"	58.8	27.0	A-E-F	21"	647.7	558.8	A
1"	68.3	34.1	A-E-F-H	22"	669.9	584.2	A-E
1 1/4"	73.0	42.9	A-E	23"	695.3	609.6	A-E
1 1/2"	84.2	48.4	A-E	24"	727.1	635.0	A
2"	95.3	60.3	A-E	27"	816.0	711.2	-
2 1/2"	108.0	76.2	A-E	29"	870.0	762.0	-
3"	127.0	88.9	A-E	30"	895.4	787.4	-
3 1/2"	146.1	101.6	A-E	33"	981.1	863.6	E
4"	158.8	114.3	A-E	35"	1031.9	914.4	E
5"	190.5	139.7	A-E	36"	1057.3	939.8	E
6"	215.9	168.3	A	39"	1139.8	1016.0	-
7"	241.3	193.7	A	42"	1216.0	1092.2	-
8"	273.1	219.1	A	45"	1298.6	1168.4	-
9"	304.8	244.5	A	48"	1374.8	1244.6	-
10"	333.4	273.1	A-E	54"	1495.4	1397.0	A
12"	384.2	323.9	A	60"	1663.7	1549.4	-
13"	415.9	355.6	A	66"	1822.5	1708.2	-
14"	444.5	381.0	A-E	72"	1978.0	1860.6	-
15"	469.9	406.4	A-E				
16"	495.3	431.8	A-E				
17"	527.1	457.2	A-E				
18"	558.8	482.6	A-E				
19"	584.2	508.0	A-E				

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**Table E** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES	NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	52.4	21.4	A-D-F	20"	616.0	533.4	A-D
3/4"	58.8	27.0	A-D-F	21"	644.5	558.8	-
1"	68.3	34.1	A-D-F-H	22"	669.9	584.2	A-D
1 1/4"	73.0	42.9	A-D	23"	695.3	609.6	A-D
1 1/2"	84.2	48.4	A-D	24"	723.9	635.0	-
2"	95.3	60.3	A-D	27"	812.8	711.2	-
2 1/2"	108.0	76.2	A-D	29"	866.8	762.0	-
3"	127.0	88.9	A-D	30"	892.2	787.4	-
3 1/2"	146.1	101.6	A-D	33"	981.1	863.6	D
4"	158.8	114.3	A-D	35"	1031.9	914.4	D
5"	190.5	139.7	A-D	36"	1057.3	939.8	D
6"	212.7	168.3	-	39"	1136.7	1016.0	-
7"	238.1	193.7	-	42"	1212.9	1092.2	-
8"	269.9	219.1	-	45"	1295.4	1168.4	-
9"	301.6	244.5	-	48"	1371.6	1244.6	-
10"	333.4	273.1	A-D				
12"	381.0	323.9	-				
13"	412.8	355.6	-				
14"	444.5	381.0	A-D				
15"	469.9	406.4	A-D				
16"	495.3	431.8	A-D				
17"	527.1	457.2	A-D				
18"	558.8	482.6	A-D				
19"	584.2	508.0	A-D				

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**Table F** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES	NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
½"	52.4	21.4	A-D-E	20"	641.4	533.4	H
¾"	58.8	27.0	A-D-E	21"	666.8	558.8	H
1"	68.3	34.1	A-D-E-H	22"	692.2	584.2	H
1 ¼"	79.4	42.9	H	23"	720.7	609.6	H
1 ½"	85.7	48.4	H	24"	746.1	635.0	H
2"	108.0	60.3	H	20"	641.4	533.4	H
2 ½"	127.0	76.2	H	21"	666.8	558.8	H
3"	146.1	88.9	H	22"	692.2	584.2	H
3 ½"	158.8	101.6	H-K	23"	720.7	609.6	H
4"	171.5	114.3	H-K	24"	746.1	635.0	H
5"	212.7	139.7	H	20"	641.4	533.4	H
6"	238.1	168.3	H	21"	666.8	558.8	H
7"	269.9	193.7	H	22"	692.2	584.2	H
8"	301.6	219.1	H	23"	720.7	609.6	H
9"	330.2	244.5	H	24"	746.1	635.0	H
10"	355.6	273.1	H				
12"	412.8	323.9	H				
13"	441.3	355.6	H				
14"	466.7	381.0	H				
15"	492.1	406.4	H				
16"	523.9	431.8	H				
17"	555.6	457.2	H				
18"	577.9	482.6	H				
19"	609.6	508.0	H				

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**Table H** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES	NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	63.5	21.4	-	20"	641.4	533.4	F
3/4"	63.5	27.0	-	21"	666.8	558.8	F
1"	68.3	34.1	A-D-E-F	22"	692.2	584.2	F
1 1/4"	79.4	42.9	F	23"	720.7	609.6	F
1 1/2"	85.7	48.4	F	24"	746.1	635.0	F
2"	108.0	60.3	F	20"	641.4	533.4	F
2 1/2"	127.0	76.2	F	21"	666.8	558.8	F
3"	146.1	88.9	F	22"	692.2	584.2	F
3 1/2"	158.8	101.6	F-K	23"	720.7	609.6	F
4"	171.5	114.3	F-K	24"	746.1	635.0	F
5"	212.7	139.7	F				
6"	238.1	168.3	F				
7"	269.9	193.7	F				
8"	301.6	219.1	F				
9"	330.2	244.5	F				
10"	355.6	273.1	F				
12"	412.8	323.9	F				
13"	441.3	355.6	F				
14"	466.7	381.0	F				
15"	492.1	406.4	F				
16"	523.9	431.8	F				
17"	555.6	457.2	F				
18"	577.9	482.6	F				
19"	609.6	508.0	F				

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**Table J** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES	NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	65.1	21.4	K	20"	638.2	533.4	-
3/4"	65.1	27.0	K	21"	663.6	558.8	-
1"	69.9	34.1	-	22"	689.0	584.2	-
1 1/4"	81.0	42.9	K	23"	717.6	609.6	-
1 1/2"	87.3	48.4	-	24"	743.0	635.0	-
2"	104.8	60.3	-	20"	638.2	533.4	-
2 1/2"	123.8	76.2	K	21"	663.6	558.8	-
3"	142.9	88.9	K	22"	689.0	584.2	-
3 1/2"	155.6	101.6	-	23"	717.6	609.6	-
4"	168.3	114.3	-	24"	743.0	635.0	-
5"	209.6	139.7	K				
6"	235.0	168.3	K				
7"	266.7	193.7	-				
8"	298.5	219.1	-				
9"	327.0	244.5	-				
10"	352.4	273.1	-				
12"	409.6	323.9	-				
13"	438.2	355.6	-				
14"	463.6	381.0	-				
15"	489.0	406.4	-				
16"	520.7	431.8	-				
17"	552.5	457.2	-				
18"	574.7	482.6	-				
19"	606.4	508.0	-				

	<b>Operational Procedure - Rev 0</b>	NWP 01 - Rev 1	
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**Table K** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	65.1	21.4	J
3/4"	65.1	27.0	J
1"	77.8	34.1	-
1 1/4"	81.0	42.9	J
1 1/2"	92.1	48.4	-
2"	109.6	60.3	-
2 1/2"	123.8	76.2	J
3"	142.9	88.9	J
3 1/2"	158.8	101.6	F-H
4"	171.5	114.3	F-H
5"	209.6	139.7	J
6"	235.0	168.3	J
7"	263.5	190.5	-
8"	288.9	215.9	-
9"	327.0	241.3	-
10"	352.4	269.9	-
12"	400.1	320.7	-
13"	447.7	346.1	-
14"	473.1	371.5	-
15"	504.8	396.9	-

	<b>Operational Procedure - Rev 0</b>	NWP 01 - Rev 1	
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**Table R** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	65.1	19.1	-
3/4"	65.1	19.9	-
1"	77.8	31.8	-
1 1/4"	81	41.3	-
1 1/2"	92.1	46.1	-
2"	109.6	57.2	-
2 1/2"	123.8	73	S
3"	142.9	85.7	-
3 1/2"	158.8	98.4	-
4"	171.5	111.1	-
5"	209.6	136.5	-

**Table S** - Dimensions in millimetres

NOM SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	GASKET SUITABLE FOR TABLES
1/2"	66.7	20.7	-
3/4"	66.7	25.4	-
1"	79.4	31.8	-
1 1/4"	85.7	41.3	-
1 1/2"	98.4	46.1	-
2"	111.1	57.2	-
2 1/2"	123.8	73.0	R
3"	139.7	85.7	-

Unless otherwise specified on the works order, tolerances shall be as below:

- i.e. Outside Diameter < NPS 12 - + 0 / - 1.50 mm  
> NPS 14 - + 0 / - 3.00 mm
- Inside Diameter < NPS 12 - + / - 1.50 mm  
> NPS 14 - + / - 1.50 mm
- Bolt circle diameter + / - 1.50 mm
- Centre to centre of adjacent bolt holes + / - 0.76 mm