

BMS 24 BS 10 (BS3063-1965 -Tables A, D, E, F, H, J & K
 Non-Metallic Dimensions & Tolerances - Full Face

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Table A - Dimensions in millimetres

NOM BORE SIZE	GASKET OUTSIDE DIA	GASKET INSIDE DIA	PC DIA OF BOLT HOLES	NO OF BOLT HOLES	BOLT HOLE DIA	GASKET SUITABLE FOR TABLES
1/2"	95.3	21.4	66.7	4	14.3	D-E-F
3/4"	101.6	27	73	4	14.3	D-E-F
1"	114.3	34.1	82.6	4	14.3	D-E
1 1/4"	120.7	42.9	87.3	4	14.3	D-E
1 1/2"	133.4	48.4	98.4	4	14.3	D-E
2"	152.4	60.3	114.3	4	19.1	D-E
2 1/2"	165.1	76.2	127	4	19.1	D-E
3"	184.2	88.9	146.1	4	19.1	D-E
3 1/2"	203.2	101.6	165.1	4	19.1	D
4"	215.9	114.3	177.8	4	19.1	D
5"	254	139.7	209.6	4	19.1	-
6"	279.4	168.3	235	4	19.1	-
7"	304.8	193.7	260.4	8	19.1	D
8"	336.6	219.1	292.1	8	19.1	D
9"	368.3	244.5	323.9	8	19.1	D
10"	406.4	273.1	355.6	8	22.2	D
12"	457.2	323.9	406.4	8	22.2	-
13"	489	355.6	438.2	8	22.2	-
14"	527.1	381	469.9	8	25.4	-
15"	552.5	406.4	495.3	8	25.4	-
16"	577.9	431.8	520.7	12	25.4	D-E
17"	609.6	457.2	552.5	12	25.4	D-E
18"	641.4	482.6	584.2	12	25.4	D
19"	673.1	508	609.6	12	25.4	D
20"	704.9	533.4	641.4	12	25.4	-
21"	736.6	558.8	673.1	12	25.4	-
22"	762	584.2	698.5	12	28.6	-
23"	787.4	609.6	723.9	12	28.6	-
24"	825.5	635	755.7	12	28.6	-
27"	870	711.2	806.5	16	28.6	-
29"	920.8	762	857.3	20	28.6	-
30"	946.2	787.4	882.7	20	28.6	-
33"	1028.7	863.6	965.2	20	28.6	-
35"	1079.5	914.4	1016	24	28.6	-
36"	1104.9	939.8	1041.4	24	28.6	-
39"	1181.1	1016	1117.6	24	28.6	-
42"	1257.3	1092.2	1193.8	28	28.6	-
45"	1339.9	1168.4	1276.4	28	28.6	-
48"	1416.1	1244.6	1352.6	28	28.6	-
54"	1606.6	1397	1530.4	32	34.9	-
60"	1784.4	1549.4	1701.8	32	34.9	-
66"	1943.1	1708.2	1860.6	32	34.9	-
72"	2108.2	1860.6	2019.3	36	38.1	-

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Table D - Dimensions in millimetres

NOM BORE SIZE	GASKET OUTSIDE DIA	GASKET INSIDE DIA	PC DIA OF BOLT HOLES	NO OF BOLT HOLES	BOLT HOLE DIA	GASKET SUITABLE FOR TABLES
1/2"	95.3	21.4	66.7	4	14.3	A-E-F
3/4"	101.6	27.0	73.0	4	14.3	A-E-F
1"	114.3	34.1	82.6	4	14.3	A-E
1 1/4"	120.7	42.9	87.3	4	14.3	A-E
1 1/2"	133.4	48.4	98.4	4	14.3	A-E
2"	152.4	60.3	114.3	4	19.1	A-E
2 1/2"	165.1	76.2	127.0	4	19.1	A-E
3"	184.2	88.9	146.1	4	19.1	A-E
3 1/2"	203.2	101.6	165.1	4	19.1	A
4"	215.9	114.3	177.8	4	19.1	A
5"	254.0	139.7	209.6	8	19.1	E
6"	279.4	168.3	235.0	8	19.1	-
7"	304.8	193.7	260.4	8	19.1	A
8"	336.6	219.1	292.1	8	19.1	A
9"	368.3	244.5	323.9	8	19.1	A
10"	406.4	273.1	355.6	8	22.2	A
12"	457.2	323.9	406.4	12	22.2	-
13"	489.0	355.6	438.2	12	22.2	-
14"	527.1	381.0	469.9	12	25.4	E
15"	552.5	406.4	495.3	12	25.4	E
16"	577.9	431.8	520.7	12	25.4	A-E
17"	609.6	457.2	552.5	12	25.4	A-E
18"	641.4	482.6	584.2	12	25.4	A
19"	673.1	508.0	609.6	12	25.4	A
20"	704.9	533.4	641.4	16	25.4	E
21"	736.6	558.8	673.1	16	25.4	-
22"	762.0	584.2	698.5	16	28.6	E
23"	787.4	609.6	723.9	16	28.6	E
24"	825.5	635.0	755.7	16	28.6	-
27"	908.1	711.2	844.6	20	28.6	-
29"	971.6	762.0	901.7	20	31.8	-
30"	997.0	787.4	927.1	20	31.8	-
33"	1092.2	863.6	1016.0	20	34.9	E
35"	1143.0	914.4	1066.8	24	34.9	E
36"	1174.8	939.8	1092.2	24	34.9	E
39"	1257.3	1016.0	1174.8	24	34.9	-
42"	1333.5	1092.2	1251.0	28	34.9	-
45"	1416.1	1168.4	1333.5	28	34.9	-
48"	1492.3	1244.6	1409.7	32	34.9	-
54"	1606.6	1397.0	1530.4	36	34.9	-
60"	1784.4	1549.4	1701.8	40	38.1	-
66"	1943.1	1708.2	1860.6	40	38.1	-
72"	2108.2	1860.6	2019.3	44	41.3	-

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Table E - Dimensions in millimetres

NOM BORE SIZE	GASKET OUTSIDE DIA	GASKET INSIDE DIA	PC DIA OF BOLT HOLES	NO OF BOLT HOLES	BOLT HOLE DIA	GASKET SUITABLE FOR TABLES
1/2"	95.3	21.4	66.7	4	14.3	A-D-F
3/4"	101.6	27.0	73.0	4	14.3	A-D-F
1"	114.3	34.1	82.6	4	14.3	A-D
1 1/4"	120.7	42.9	87.3	4	14.3	A-D
1 1/2"	133.4	48.4	98.4	4	14.3	A-D
2"	152.4	60.3	114.3	4	19.1	A-D
2 1/2"	165.1	76.2	127.0	4	19.1	A-D
3"	184.2	88.9	146.1	4	19.1	A-D
3 1/2"	203.2	101.6	165.1	8	19.1	-
4"	215.9	114.3	177.8	8	19.1	-
5"	254.0	139.7	209.6	8	19.1	D
6"	279.4	168.3	235.0	8	22.2	-
7"	304.8	193.7	260.4	8	22.2	-
8"	336.6	219.1	292.1	8	22.2	-
9"	368.3	244.5	323.9	12	22.2	-
10"	406.4	273.1	355.6	12	22.2	-
12"	457.2	323.9	406.4	12	25.4	-
13"	489.0	355.6	438.2	12	25.4	-
14"	527.1	381.0	469.9	12	25.4	D
15"	552.5	406.4	495.3	12	25.4	D
16"	577.9	431.8	520.7	12	25.4	A-D
17"	609.6	457.2	552.5	12	25.4	A-D
18"	641.4	482.6	584.2	16	25.4	-
19"	673.1	508.0	609.6	16	25.4	-
20"	704.9	533.4	641.4	16	25.4	D
21"	736.6	558.8	673.1	16	28.6	-
22"	762.0	584.2	698.5	16	28.6	D
23"	787.4	609.6	723.9	16	28.6	D
24"	825.5	635.0	755.7	16	31.8	-
27"	908.1	711.2	844.6	20	31.8	-
29"	971.6	762.0	901.7	20	34.9	-
30"	997.0	787.4	927.1	20	34.9	-
33"	1092.2	863.6	1016.0	20	34.9	D
35"	1143.0	914.4	1066.8	24	34.9	D
36"	1174.8	939.8	1092.2	24	34.9	D
39"	1257.3	1016.0	1174.8	24	38.1	-
42"	1333.5	1092.2	1251.0	28	38.1	-
45"	1416.1	1168.4	1333.5	28	38.1	-
48"	1492.3	1244.6	1409.7	32	38.1	-

Table F - Dimensions in millimetres

NOM BORE	GASKET OUTSIDE	GASKET INSIDE	PC DIA OF BOLT	NO OF BOLT	BOLT HOLE	GASKET SUITABLE
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SIZE	DIA	DIA	HOLES	HOLES	DIA	FOR TABLES
1/2"	95.3	21.4	66.7	4	14.3	A-D-E
3/4"	101.6	27.0	73.0	4	14.3	A-D-E
1"	120.7	34.1	87.3	4	19.1	H
1 1/4"	133.4	42.9	98.4	4	19.1	H
1 1/2"	139.7	48.4	104.8	4	19.1	H
2"	165.1	60.3	127.0	4	19.1	H
2 1/2"	184.2	76.2	146.1	8	19.1	H
3"	203.2	88.9	165.1	8	19.1	H
3 1/2"	215.9	101.6	177.8	8	19.1	H
4"	228.6	114.3	190.5	8	19.1	H
5"	279.4	139.7	235.0	8	22.2	H
6"	304.8	168.3	260.4	12	22.2	H
7"	336.6	193.7	292.1	12	22.2	H
8"	368.3	219.1	323.9	12	22.2	H
9"	406.4	244.5	355.6	12	25.4	H
10"	431.8	273.1	381.0	12	25.4	H
12"	489.0	323.9	438.2	16	25.4	H
13"	527.1	355.6	469.9	16	28.6	H
14"	552.5	381.0	495.3	16	28.6	H
15"	577.9	406.4	520.7	16	28.6	H
16"	609.6	431.8	552.5	20	28.6	H
17"	641.4	457.2	584.2	20	28.6	H
18"	673.1	482.6	609.6	20	31.8	H
19"	704.9	508.0	641.4	20	31.8	H
20"	736.6	533.4	673.1	24	31.8	H
21"	762.0	558.8	698.5	24	31.8	H
22"	787.4	584.2	723.9	24	31.8	H
23"	825.5	609.6	755.7	24	34.9	H
24"	850.9	635.0	781.1	24	34.9	H

Table H - Dimensions in millimetres

NOM BORE	GASKET OUTSIDE	GASKET INSIDE	PC DIA OF BOLT	NO OF BOLT	BOLT HOLE	GASKET SUITABLE
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SIZE	DIA	DIA	HOLES	HOLES	DIA	FOR TABLES
1/2"	114.3	21.4	82.6	4	19.1	-
3/4"	114.3	27.0	82.6	4	19.1	-
1"	120.7	34.1	87.3	4	19.1	F
1 1/4"	133.4	42.9	98.4	4	19.1	F
1 1/2"	139.7	48.4	104.8	4	19.1	F
2"	165.1	60.3	127.0	4	19.1	F
2 1/2"	184.2	76.2	146.1	8	19.1	F
3"	203.2	88.9	165.1	8	19.1	F
3 1/2"	215.9	101.6	177.8	8	19.1	F
4"	228.6	114.3	190.5	8	19.1	F
5"	279.4	139.7	235.0	8	22.2	F
6"	304.8	168.3	260.4	12	22.2	F
7"	336.6	193.7	292.1	12	22.2	F
8"	368.3	219.1	323.9	12	22.2	F
9"	406.4	244.5	355.6	12	25.4	F
10"	431.8	273.1	381.0	12	25.4	F
12"	489.0	323.9	438.2	16	25.4	F
13"	527.1	355.6	469.9	16	28.6	F
14"	552.5	381.0	495.3	16	28.6	F
15"	577.9	406.4	520.7	16	28.6	F
16"	609.6	431.8	552.5	20	28.6	F
17"	641.4	457.2	584.2	20	28.6	F
18"	673.1	482.6	609.6	20	31.8	F
19"	704.9	508.0	641.4	20	31.8	F
20"	736.6	533.4	673.1	24	31.8	F
21"	762.0	558.8	698.5	24	31.8	F
22"	787.4	584.2	723.9	24	31.8	F
23"	825.5	609.6	755.7	24	34.9	F
24"	850.9	635.0	781.1	24	34.9	F

Table J - Dimensions in millimetres

NOM BORE SIZE	GASKET OUTSIDE DIA	GASKET INSIDE DIA	PC DIA OF BOLT HOLES	NO OF BOLT HOLES	BOLT HOLE DIA	GASKET SUITABLE FOR TABLES
1/2"	114.3	21.4	82.6	4	17.5	K
3/4"	114.3	27.0	82.6	4	17.5	K
1"	120.7	34.1	87.3	4	17.5	-
1 1/4"	133.4	42.9	98.4	4	17.5	K

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1 1/2"	139.7	48.4	104.8	4	17.5	-
2"	165.1	60.3	127.0	4	22.2	-
2 1/2"	184.2	76.2	146.1	8	22.2	K
3"	203.2	88.9	165.1	8	22.2	K
3 1/2"	215.9	101.6	177.8	8	22.2	-
4"	228.6	114.3	190.5	8	22.2	-
5"	279.4	139.7	235.0	8	25.4	-
6"	304.8	168.3	260.4	12	25.4	K
7"	336.6	193.7	292.1	12	25.4	-
8"	368.3	219.1	323.9	12	25.4	-
9"	406.4	244.5	355.6	12	28.6	-
10"	431.8	273.1	381.0	12	28.6	-
12"	489.0	323.9	438.2	16	28.6	-
13"	527.1	355.6	469.9	16	31.8	-
14"	552.5	381.0	495.3	16	31.8	-
15"	577.9	406.4	520.7	16	31.8	-
16"	609.6	431.8	552.5	20	31.8	-
17"	641.4	457.2	584.2	20	31.8	-
18"	673.1	482.6	609.6	20	34.9	-
19"	704.9	508.0	641.4	20	34.9	-
20"	736.6	533.4	673.1	24	34.9	-
21"	762.0	558.8	698.5	24	34.9	-
22"	787.4	584.2	723.9	24	34.9	-
23"	825.5	609.6	755.7	24	38.1	-
24"	850.9	635.0	781.1	24	38.1	-

Table K - Dimensions in millimetres

NOM BORE SIZE	GASKET OUTSIDE DIA	GASKET INSIDE DIA	PC DIA OF BOLT HOLES	NO OF BOLT HOLES	BOLT HOLE DIA	GASKET SUITABLE FOR TABLES
1/2"	114.3	21.4	82.6	4	17.5	J
3/4"	114.3	27.0	82.6	4	17.5	J
1"	127.0	34.1	95.3	4	17.5	-
1 1/4"	133.4	42.9	98.4	4	17.5	J
1 1/2"	152.4	48.4	114.3	4	22.2	-
2"	165.1	60.3	127.0	8	17.5	-
2 1/2"	184.2	76.2	146.1	8	22.2	J
3"	203.2	88.9	165.1	8	22.2	J
3 1/2"	228.6	101.6	184.2	8	25.4	-

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4"	241.3	114.3	196.9	8	25.4	-
5"	279.4	139.7	235.0	12	25.4	-
6"	304.8	168.3	260.4	12	25.4	J
7"	342.9	190.5	292.1	12	28.6	-
8"	368.3	215.9	317.5	12	28.6	-
9"	406.4	241.3	355.6	16	28.6	-
10"	431.8	269.9	381.0	16	28.6	-
12"	489.0	320.7	431.8	16	31.8	-
13"	546.1	346.1	482.6	16	34.9	-
14"	571.5	371.5	508.0	16	34.9	-
15"	603.3	396.9	539.8	20	34.9	-

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