

BMS 12 - BS 10 SG-IR SWG Dimensional Tables & Tolerances
 For Welded Neck & Slip On Flanges
 (Tables D, E, F, J, K, R, S & T)

Issued by:

A D Senior

Date:

1st Jan 2011

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Dimensions are in Millimetres

NOM PIPE SIZE	INNER RING MIN I / D	SEALING ELEMENT		CENTERING RING O / D	
		I / D	O / D	TABLE D	TABLE E
1 / 2"	14.3	26.2	37.3	54.0	54.0
3 / 4"	20.7	31.8	42.9	60.3	60.3
1"	27.0	39.7	52.4	69.9	69.9
1 1/4"	33.4	47.6	60.3	74.6	74.6
1 1/2"	39.7	54.0	66.7	85.8	85.8
2"	52.4	66.7	79.4	98.5	98.5
2 1/2"	65.1	82.6	98.5	111.2	111.2
3"	77.8	96.9	112.8	130.2	130.2
3 1/2"	90.5	109.6	125.5	149.3	149.3
4"	103.2	123.9	139.7	161.9	161.9
4 1/2"	115.9	136.6	152.4	174.6	174.6
5"	128.6	149.2	165.1	193.6	193.6
6"	154.0	174.6	190.5	219.0	215.9
7"	179.0	200.0	219.0	244.5	241.3
8"	204.8	225.4	244.5	276.2	273.0
9"	230.2	250.8	269.9	308.0	304.8
10"	255.6	276.3	295.3	336.6	336.6
11"	281.0	301.6	320.7	362.0	362.0
12"	306.4	327.0	349.3	387.4	384.2
13"	331.8	368.3	390.6	419.1	415.9
14"	357.2	393.7	416.0	447.7	447.7
15"	382.6	419.1	441.3	473.0	473.0
16"	408.0	444.5	466.7	498.5	498.5
17"	433.4	473.0	498.5	530.3	527.0
18"	458.8	498.5	523.9	562.0	562.0
19"	484.2	523.9	549.3	587.4	587.4
20"	509.6	549.3	574.7	619.2	619.2
21"	535.0	574.7	603.3	651.0	647.7
22"	560.4	600.0	628.7	673.1	673.1
23"	585.8	625.5	654.0	698.5	698.5
24"	611.2	650.9	679.5	730.3	728.7

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NOM PIPE SIZE	INNER RING MIN I / D	SEALING ELEMENT		CENTERING RING O / D				
		I / D	O / D	TABLE F	TABLE H	TABLE J	TABLE K	TABLE R
1 / 2"	14.3	26.2	38.9	54.0	66.7	66.7	66.7	66.7
3 / 4"	20.7	31.8	44.5	60.3	66.7	66.7	66.7	66.7
1"	27.0	39.7	55.6	71.5	71.5	71.5	79.4	79.4
1 1/4"	33.4	47.6	63.5	82.6	82.6	82.6	82.6	82.6
1 1/2"	39.7	54.0	69.9	88.9	88.9	88.9	95.3	95.3
2"	52.4	66.7	82.6	111.2	111.2	108.0	111.2	111.2
2 1/2"	65.1	82.6	101.6	130.2	130.2	127.0	127.0	127.0
3"	77.8	96.9	115.9	149.3	149.3	146.0	146.0	146.0
3 1/2"	90.5	109.6	128.6	162.0	162.0	158.9	162.0	162.0
4"	103.2	123.9	142.9	174.7	174.7	171.5	174.7	174.7
4 1/2"	115.9	136.6	158.9	190.5	190.5	187.4	187.4	187.4
5"	128.6	149.2	171.5	215.9	215.9	212.8	212.8	212.8
6"	154.0	174.6	196.9	241.3	241.3	238.2	238.2	238.2
7"	179.0	200.0	225.4	273.0	273.0	269.9	266.7	266.7
8"	204.8	225.4	250.9	304.8	304.8	301.7	292.1	298.5
9"	230.2	250.8	276.3	333.4	333.4	330.2	330.2	330.2
10"	255.6	279.4	304.8	358.8	358.8	355.6	355.6	362.0
11"	281.0	304.8	330.2	384.2	384.2	381.0	384.2	403.3
12"	306.4	330.2	358.7	416.0	416.0	412.8	403.3	428.7
13"	331.8	362.0	390.6	444.5	444.5	441.4	451.0	463.6
14"	357.2	387.4	415.9	470.0	470.0	466.8	476.3	495.3
15"	382.6	412.8	441.4	495.3	495.3	492.2	508.0	520.7
16"	408.0	444.5	476.3	527.0	527.0	523.9	533.4	552.5
17"	433.4	469.9	504.9	558.8	558.8	555.7	565.2	577.9
18"	458.8	495.3	530.3	581.0	581.0	577.9	619.2	638.2
19"	484.2	523.9	562.0	612.3	612.3	609.6	-	-
20"	509.6	549.3	587.4	644.6	644.6	641.4	673.1	692.2
21"	535.0	574.7	619.2	670.0	670.0	666.8	-	-
22"	560.4	600.0	644.5	695.4	695.4	692.2	730.3	755.7
23"	585.8	625.5	670.0	723.9	723.9	720.8	-	-
24"	611.2	651.0	695.4	749.3	749.3	746.1	-	-

Dimensions are in Millimetres

TABLE S

UNCONTROLLED IF PRINTED – Verify date of issue before use

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NOMINAL PIPE SIZE	INTERNAL DIAMETER		EXTERNAL DIAMETER	
	INNER RING	SEALING ELEMENT	SEALING ELEMENT	CENTERING RING
1/2"	15.9	27.0	39.7	69.9
3/4"	22.2	34.9	47.6	69.9
1"	28.6	41.3	55.6	82.6
1 1/4"	34.9	47.6	63.5	88.9
1 1/2"	41.3	54.0	71.5	101.6
2"	54.0	66.7	87.3	114.3
2 1/2"	66.7	79.4	100.0	127.0
3"	79.4	92.1	112.7	142.9
3 1/2"	92.1	104.8	125.4	168.3
4"	104.8	120.7	144.5	177.8
4 1/2"	117.5	133.4	155.6	190.5
5"	130.2	146.1	168.3	212.7
6"	155.6	171.5	193.7	247.7
7"	181.0	196.9	225.4	288.9
8"	206.4	225.4	254.0	323.9
9"	231.8	250.8	279.4	358.8
10"	257.2	276.2	308.0	393.7
11 (12 3/4" O/D Pipe)	282.6	301.6	333.4	435.0
12 (14" " " ")	308.0	327.0	358.8	469.9
13 (15" " " ")	333.4	352.4	387.4	501.7
14 (16" " " ")	358.8	377.8	412.8	539.8
15 (17" " " ")	384.2	403.2	438.2	581.0
16 (18" " " ")	409.6	428.6	466.7	616.0

Dimensions are in Millimetres

NOMINAL	TABLE T	
	INTERNAL DIAMETER	EXTERNAL DIAMETER

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PIPE SIZE	INNER RING	SEALING ELEMENT	SEALING ELEMENT	CENTERING RING
1/2"	15.9	27.0	39.7	82.6
3/4"	22.2	34.9	47.6	82.6
1"	28.6	41.3	55.6	88.9
1 1/4"	34.9	47.6	63.5	98.4
1 1/2"	41.3	54.0	71.5	114.3
2"	54.0	66.7	87.3	127.0
2 1/2"	66.7	82.6	103.2	142.9
3"	79.4	95.3	119.1	165.1
3 1/2"	92.1	108.0	135.0	187.3
4"	104.8	120.7	147.7	206.4
4 1/2"	117.5	133.4	161.9	228.6
5"	130.2	146.1	174.6	244.5
6"	155.6	171.5	200.0	285.8
7"	181.0	196.9	231.8	333.4
8"	206.4	225.4	260.4	368.3
9"	231.8	250.8	288.9	409.6
10"	257.2	276.2	314.3	450.9
11"	282.6	301.6	339.7	489.0
12"	308.0	327.0	371.5	527.1
13"	333.4	352.4	396.9	558.8

Tolerances - BS 10 - In Millimetres

CENTERING RING			SEALING ELEMENT			INNER RING		
O/D	I/D	THK	O/D	I/D	THK	O/D	I/D	THK
+ 0 - 0.8	+ 0 - 0.8	3.2 + 0.25 3.2 - 0.10	+ 0 - 0.8	+ 0.4 - 0	4.5 + 0.25 4.5 - 0	+ 0.4 - 0	+ 0.4 - 0	2.97 to 3.32