

Dimensions for Flat Ring and Full Face Applications

ASME B16.21 Class 150

Nominal Bore	Flat Ring and Full Face Gasket		Flat Ring Gasket		Full Face gasket							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		
1/2	27/32	21.4	1 7/8	47.6	3 1/2	88.9	2 3/8	60.3	5/8	15.9	4	1/2
3/4	1 1/16	27.0	2 1/4	57.2	3 3/4	95.3	2 3/4	69.9	5/8	15.9	4	3/4
1	1 5/16	33.3	2 5/8	66.7	4 1/4	108.0	3 1/8	79.4	5/8	15.9	4	1
1 1/4	1 21/32	42.1	3	76.2	4 5/8	117.5	3 1/2	88.9	5/8	15.9	4	1 1/4
1 1/2	1 29/32	48.4	3 3/8	85.7	5	127.0	3 7/8	98.4	5/8	15.9	4	1 1/2
2	2 3/8	60.3	4 1/8	104.8	6	152.4	4 3/4	120.7	3/4	19.1	4	2
2 1/2	2 7/8	73.0	4 7/8	123.8	7	177.8	5 1/2	139.7	3/4	19.1	4	2 1/2
3	3 1/2	88.9	5 3/8	136.5	7 1/2	190.5	6	152.4	3/4	19.1	4	3
3 1/2	4	101.6	6 3/8	161.9	8 1/2	215.9	7	177.8	3/4	19.1	8	3 1/2
4	4 1/2	114.3	6 7/8	174.6	9	228.6	7 1/2	190.5	3/4	19.1	8	4
5	5 9/16	141.3	7 3/4	196.9	10	254.0	8 1/2	215.9	7/8	22.2	8	5
6	6 5/8	168.3	8 3/4	222.3	11	279.4	9 1/2	241.3	7/8	22.2	8	6
8	8 5/8	219.1	11	279.4	13 1/2	342.9	11 3/4	298.5	7/8	22.2	8	8
10	10 3/4	273.1	13 3/8	339.7	16	406.4	14 1/4	362.0	1	25.4	12	10
12	12 3/4	323.9	16 1/8	409.6	19	482.6	17	431.8	1	25.4	12	12
14	14	355.6	17 3/4	450.9	21	533.4	18 3/4	476.3	1 1/8	28.6	12	14
16	16	406.4	20 1/4	514.4	23 1/2	596.9	21 1/4	539.8	1 1/8	28.6	16	16
18	18	457.2	21 5/8	549.3	25	635.0	22 3/4	577.9	1 1/4	31.8	16	18
20	20	508.0	23 7/8	606.4	27 1/2	698.5	25	635.0	1 1/4	31.8	20	20
24	24	609.6	28 1/4	717.6	32	812.8	29 1/2	749.3	1 3/8	34.9	20	24

Dimensions for Flat Ring and Full Face Applications

ASME B16.21 Class 300

Nominal Bore	Flat Ring and Full Face		Flat Ring Gasket		Full Face gasket							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		
1/2	0.84	21.4	2 1/8	54.0	3 3/4	95.3	2 5/8	66.7	5/8	15.9	4	1/2
3/4	1.06	27.0	2 5/8	66.7	4 5/8	117.5	3 1/4	82.6	3/4	19.1	4	3/4
1	1.31	33.3	2 7/8	73.0	4 7/8	123.8	3 1/2	88.9	3/4	19.1	4	1
1 1/4	1.66	42.1	3 1/4	82.6	5 1/4	133.4	3 7/8	98.4	3/4	19.1	4	1 1/4
1 1/2	1.91	48.4	3 3/4	95.3	6 1/8	155.6	4 1/2	114.3	7/8	22.2	4	1 1/2
2	2.38	60.3	4 3/8	111.1	6 1/2	165.1	5	127.0	3/4	19.1	8	2
2 1/2	2.88	73.0	5 1/8	130.2	7 1/2	190.5	5 7/8	149.2	7/8	22.2	8	2 1/2
3	3.50	88.9	5 7/8	149.2	8 1/4	209.6	6 5/8	168.3	7/8	22.2	8	3
3 1/2	4.00	101.6	6 1/2	165.1	9	228.6	7 1/4	184.2	7/8	22.2	8	3 1/2
4	4.50	114.3	7 1/8	181.0	10	254.0	7 7/8	200.0	7/8	22.2	8	4
5	5.56	141.3	8 1/2	215.9	11	279.4	9 1/4	235.0	7/8	22.2	8	5
6	6.63	168.3	9 7/8	250.8	12 1/2	317.5	10 5/8	269.9	7/8	22.2	12	6
8	8.63	219.1	12 1/8	308.0	15	381.0	13	330.2	1 1/8	28.6	12	8
10	10.75	273.1	14 1/4	362.0	17 1/2	444.5	15 1/4	387.4	1 1/8	28.6	16	10
12	12.75	323.9	16 5/8	422.3	20 1/2	520.7	17 3/4	450.9	1 1/4	31.8	16	12
14	14.00	355.6	19 1/8	485.8	23	584.2	20 1/4	514.4	1 1/4	31.8	20	14
16	16.00	406.4	21 1/4	539.8	25 1/2	647.7	22 1/2	571.5	1 3/8	34.9	20	16
18	18.00	457.2	23 1/2	596.9	28	711.2	24 3/4	628.7	1 3/8	34.9	24	18
20	20.00	508.0	25 3/4	654.1	30 1/2	774.7	27	685.8	1 3/8	34.9	24	20
24	24.00	609.6	30 1/2	774.7	36	914.4	32	812.8	1 5/8	41.3	24	24

Dimensions for Flat Ring and Full Face Applications

ASME B16.21 Class 400

Nominal Bore	Flat Ring and Full Face		Flat Ring Gasket		Full Face gasket							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		
1/2	27/32	21.4	2.12	53.8	3.75	95.3	2.62	66.5	0.62	15.7	4	1/2
3/4	1 1/16	27.0	2.62	66.5	4.62	117.3	3.25	82.6	0.75	19.1	4	3/4
1	1 5/16	33.3	2.88	73.2	4.88	124.0	3.50	88.9	0.75	19.1	4	1
1 1/4	1 21/32	42.1	3.25	82.6	5.25	133.4	3.88	98.6	0.75	19.1	4	1 1/4
1 1/2	1 29/32	48.4	3.75	95.3	6.12	155.4	4.50	114.3	0.88	22.4	4	1 1/2
2	2 3/8	60.3	4.38	111.3	6.50	165.1	5.00	127.0	0.75	19.1	8	2
2 1/2	2 7/8	73.0	5.12	130.0	7.50	190.5	5.88	149.4	0.88	22.4	8	2 1/2
3	3 1/2	88.9	5.88	149.4	8.25	209.6	6.62	168.1	0.88	22.4	8	3
3 1/2	4	101.6	6.38	162.1	9.00	228.6	7.25	184.2	1.00	25.4	8	3 1/2
4	4 1/2	114.3	7.00	177.8	10.00	254.0	7.88	200.2	1.00	25.4	8	4
5	5 9/16	141.3	8.38	212.9	11.00	279.4	9.25	235.0	1.00	25.4	8	5
6	6 5/8	168.3	9.75	247.7	12.50	317.5	10.62	269.7	1.00	25.4	12	6
8	8 5/8	219.1	12.00	304.8	15.00	381.0	13.00	330.2	1.12	28.4	12	8
10	10 3/4	273.1	14.12	358.6	17.50	444.5	15.25	387.4	1.25	31.8	16	10
12	12 3/4	323.9	16.50	419.1	20.50	520.7	17.75	450.9	1.38	35.1	16	12
14	14	355.6	19.00	482.6	23.00	584.2	20.25	514.4	1.38	35.1	20	14
16	16	406.4	21.12	536.4	25.50	647.7	22.50	571.5	1.50	38.1	20	16
18	18	457.2	23.38	593.9	28.00	711.2	24.75	628.7	1.50	38.1	24	18
20	20	508.0	25.50	647.7	30.50	774.7	27.00	685.8	1.62	41.1	24	20
24	24	609.6	30.25	768.4	36.00	914.4	32.00	812.8	1.88	47.8	24	24

Dimensions for Flat Ring and Full Face Applications

ASME B16.21 Class 600

Nominal Bore	Flat Ring and Full Face		Flat Ring Gasket		Full Face gasket						Nominal Bore	
	Inner Diameter		Outer Diameter		Outer Diameter		Bolt Circle Diameter		Diameter of Holes			Number of Holes
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 1/8	54.0	3 3/4	95.3	2 5/8	66.7	5/8	15.9	4	1/2
3/4	1 1/16	27.0	2 5/8	66.7	4 5/8	117.5	3 1/4	82.6	3/4	19.1	4	3/4
1	1 5/16	33.3	2 7/8	73.0	4 7/8	123.8	3 1/2	88.9	3/4	19.1	4	1
1 1/4	1 21/32	42.1	3 1/4	82.6	5 1/4	133.4	3 7/8	98.4	3/4	19.1	4	1 1/4
1 1/2	1 29/32	48.4	3 3/4	95.3	6 1/8	155.6	4 1/2	114.3	7/8	22.2	4	1 1/2
2	2 3/8	60.3	4 3/8	111.1	6 1/2	165.1	5	127.0	3/4	19.1	8	2
2 1/2	2 7/8	73.0	5 1/8	130.2	7 1/2	190.5	5 7/8	149.2	7/8	22.2	8	2 1/2
3	3 1/2	88.9	5 7/8	149.2	8 1/4	209.6	6 5/8	168.3	7/8	22.2	8	3
3 1/2	4	101.6	6 3/8	161.9	9	228.6	7 1/4	184.2	1	25.4	8	3 1/2
4	4 1/2	114.3	7 5/8	193.7	10 3/4	273.1	8 1/2	215.9	1	25.4	8	4
5	5 9/16	141.3	9 1/2	241.3	13	330.2	10 1/2	266.7	1 1/8	28.6	8	5
6	6 5/8	168.3	10 1/2	266.7	14	355.6	11 1/2	292.1	1 1/8	28.6	12	6
8	8 5/8	219.1	12 5/8	320.7	16 1/2	419.1	13 3/4	349.3	1 1/4	31.8	12	8
10	10 3/4	273.1	15 3/4	400.1	20	508.0	17	431.8	1 3/8	34.9	16	10
12	12 3/4	323.9	18	457.2	22	558.8	19 1/4	489.0	1 3/8	34.9	20	12
14	14	355.6	19 3/8	492.1	23 3/4	603.3	20 3/4	527.1	1 1/2	38.1	20	14
16	16	406.4	22 1/4	565.2	27	685.8	23 3/4	603.3	1 5/8	41.3	20	16
18	18	457.2	24 1/8	612.8	29 1/4	743.0	25 3/4	654.1	1 3/4	44.5	20	18
20	20	508.0	26 7/8	682.6	32	812.8	28 1/2	723.9	1 3/4	44.5	24	20
24	24	609.6	31 1/8	790.6	37	939.8	33	838.2	2	50.8	24	24

Dimensions for Flat Ring and Full Face Applications

ASME B16.21 Class 900

Nominal Bore	Flat Ring and Full Face		Flat Ring Gasket		Full Face gasket							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		
1/2	27/32	21.4	2 1/2	63.5	4 3/4	120.7	3 1/4	82.6	7/8	22.2	4	1/2
3/4	1 1/16	27.0	2 3/4	69.9	5 1/8	130.2	3 1/2	88.9	7/8	22.2	4	3/4
1	1 5/16	33.3	3 1/8	79.4	5 7/8	149.2	4	101.6	1	25.4	4	1
1 1/4	1 21/32	42.1	3 1/2	88.9	6 1/4	158.8	4 3/8	111.1	1	25.4	4	1 1/4
1 1/2	1 29/32	48.4	3 7/8	98.4	7	177.8	4 7/8	123.8	1 1/8	28.6	4	1 1/2
2	2 3/8	60.3	5 5/8	142.9	8 1/2	215.9	6 1/2	165.1	1	25.4	8	2
2 1/2	2 7/8	73.0	6 1/2	165.1	9 5/8	244.5	7 1/2	190.5	1 1/8	28.6	8	2 1/2
3	3 1/2	88.9	6 5/8	168.3	9 1/2	241.3	7 1/2	190.5	1	25.4	8	3
4	4 1/2	114.3	8 1/8	206.4	11 1/2	292.1	9 1/4	235.0	1 1/4	31.8	8	4
5	5 9/16	141.3	9 3/4	247.7	13 3/4	349.3	11	279.4	1 3/8	34.9	8	5
6	6 5/8	168.3	11 3/8	288.9	15	381.0	12 1/2	317.5	1 1/4	31.8	12	6
8	8 5/8	219.1	14 1/8	358.8	18 1/2	469.9	15 1/2	393.7	1 1/2	38.1	12	8
10	10 3/4	273.1	17 1/8	435.0	21 1/2	546.1	18 1/2	469.9	1 1/2	38.1	16	10
12	12 3/4	323.9	19 5/8	498.5	24	609.6	21	533.4	1 1/2	38.1	20	12
14	14	355.6	20 1/2	520.7	25 1/4	641.4	22	558.8	1 5/8	41.3	20	14
16	16	406.4	22 5/8	574.7	27 3/4	704.9	24 1/4	616.0	1 3/4	44.5	20	16
18	18	457.2	25 1/8	638.2	31	787.4	27	685.8	2	50.8	20	18
20	20	508.0	27 1/2	698.5	33 3/4	857.3	29 1/2	749.3	2 1/8	54.0	20	20
24	24	609.6	33	838.2	41	1041.4	35 1/2	901.7	2 5/8	66.7	20	24

Dimensions for Flat Ring and Full Face Applications

ASME B16.47 Series A Class 150 (Previously MSS SP44)

Nominal Bore	Gasket ID		IBC Gasket OD		Full Face							Nominal Bore
					Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		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	22
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	26
28	28	711.2	32 3/4	831.9	36 1/2	927.1	1 3/8	34.9	34	863.6	28	28
30	30	762.0	34 3/4	882.7	38 3/4	984.3	1 3/8	34.9	36	914.4	28	30
32	32	812.8	37	939.8	41 3/4	1060.5	1 5/8	41.3	38 1/2	977.9	28	32
34	34	863.6	39	990.6	43 3/4	1111.3	1 5/8	41.3	40 1/2	1028.7	32	34
36	36	914.4	41 1/4	1047.8	46	1168.4	1 5/8	41.3	42 3/4	1085.9	32	36
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	38
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	40
42	42	1066.8	48	1219.2	53	1346.2	1 5/8	41.3	49 1/2	1257.3	36	42
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	44
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	46
48	48	1219.2	54 1/2	1384.3	59 1/2	1511.3	1 5/8	41.3	56	1422.4	44	48
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	50
52	52	1320.8	58 3/4	1492.3	64	1625.6	1 7/8	47.6	60 1/2	1536.7	44	52
54	54	1371.6	61	1549.4	66 1/4	1682.8	1 7/8	47.6	62 3/4	1593.9	44	54
56	56	1422.4	63 1/4	1606.6	68 3/4	1746.3	1 7/8	47.6	65	1651.0	48	56
58	58	1473.2	65 1/2	1663.7	71	1803.4	1 7/8	47.6	67 1/4	1708.2	48	58
60	60	1524.0	67 1/2	1714.5	73	1854.2	1 7/8	47.6	69 1/4	1759.0	52	60

Dimensions for Flat Ring and Full Face Applications

ASME B16.47 Series A Class 300 (Previously MSS SP44)

Nominal Bore		Gasket ID		IBC Gasket OD		Full Face						Nominal Bore	
						Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.			Number of Bolt Holes
						Inches	mm	Inches	mm	Inches	mm		
22	550	22	558.8	27 3/4	704.9	33	838.2	1 5/8	41.3	29 1/4	743.0	24	22
26	650	26	660.4	32 22/25	835.2	38 1/4	971.6	1 3/4	44.5	34 1/2	876.3	28	26
28	700	28	711.2	35 19/50	898.7	40 3/4	1035.1	1 3/4	44.5	37	939.8	28	28
30	750	30	762.0	37 1/2	952.5	43	1092.2	1 7/8	47.6	39 1/4	997.0	28	30
32	800	32	812.8	39 46/73	1006.6	45 1/4	1149.4	2	50.8	41 1/2	1054.1	28	32
34	850	34	863.6	41 31/50	1057.1	47 1/2	1206.5	2	50.8	43 1/2	1104.9	28	34
36	900	36	914.4	44	1117.6	50	1270.0	2 1/8	54.0	46	1168.4	32	36
38	950	38	965.2	41 1/2	1054.1	46	1168.4	1 5/8	41.3	43	1092.2	32	38
40	1000	40	1016.0	43 22/25	1114.6	47 1/2	1206.5	1 3/4	44.5	45 1/2	1155.7	32	40
42	1050	42	1066.8	45 22/25	1165.4	50 3/4	1289.1	1 3/4	44.5	47 1/2	1206.5	32	42
44	1100	44	1117.6	48	1219.2	53 3/4	1365.3	1 7/8	47.6	49 3/4	1263.7	32	44
46	1150	46	1168.4	50 3/25	1273.0	55 3/4	1416.1	2	50.8	52	1320.8	28	46
48	1200	48	1219.2	52 3/25	1323.8	57 3/4	1466.9	2	50.8	54	1371.6	32	48
50	1250	50	1270.0	54 1/4	1378.0	60 1/4	1530.4	2 1/8	54.0	56 1/4	1428.8	32	50
52	1300	52	1320.8	56 1/4	1428.8	62 1/4	1581.2	2 1/8	54.0	58 1/4	1479.6	32	52
54	1350	54	1371.6	58 3/4	1492.3	65 1/4	1657.4	2 3/8	60.3	61	1549.4	28	54
56	1400	56	1422.4	60 3/4	1543.1	67 1/4	1708.2	2 3/8	60.3	63	1600.2	28	56
58	1450	58	1473.2	62 3/4	1593.9	69 1/4	1759.0	2 3/8	60.3	65	1651.0	32	58
60	1500	60	1524.0	64 3/4	1644.7	71 1/4	1809.8	2 3/8	60.3	67	1701.8	32	60

Dimensions for Flat Ring and Full Face Applications

ASME B16.47 Series A Class 600 (Previously MSS SP44)

Nominal Bore	Gasket ID		IBC Gasket OD		Full Face							Nominal Bore
					Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		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	22
26	26	660.4	34 1/8	866.8	40	1016.0	2	50.8	36	914.4	28	26
28	28	711.2	36	914.4	42 1/4	1073.2	2 1/8	54.0	38	965.2	28	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	30
32	32	812.8	40 1/4	1022.4	47	1193.8	2 3/8	60.3	42 1/2	1079.5	28	32
34	34	863.6	42 1/4	1073.2	49	1244.6	2 3/8	60.3	44 1/2	1130.3	28	34
36	36	914.4	44 1/2	1130.3	51 3/4	1314.5	2 5/8	66.7	47	1193.8	32	36
38	38	965.2	43 1/2	1104.9	50	1270.0	2 3/8	60.3	45 3/4	1162.1	32	38
40	40	1016.0	45 1/2	1155.7	52	1320.8	2 3/8	60.3	47 3/4	1212.9	32	40
42	42	1066.8	48	1219.2	55 1/4	1403.4	2 5/8	66.7	50 1/2	1282.7	32	42
44	44	1117.6	50	1270.0	57 1/4	1454.2	2 5/8	66.7	52 1/2	1333.5	32	44
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	46
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	48
50	50	1270.0	57	1447.8	65 3/4	1670.1	3 1/8	79.4	60	1524.0	32	50
52	52	1320.8	59	1498.6	67 3/4	1720.9	3 1/8	79.4	62	1574.8	32	52
54	54	1371.6	61 1/4	1555.8	70	1778.0	3 1/8	79.4	64 1/4	1632.0	28	54
56	56	1422.4	63 1/2	1612.9	73	1854.2	3 3/8	85.7	66 3/4	1695.5	28	56
58	58	1473.2	65 1/2	1663.7	75	1905.0	3 3/8	85.7	68 3/4	1746.3	32	58
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	60

Dimensions for Flat Ring and Full Face Applications

ASME B16.47 Series B Class 75 (Previously API 605)

Nominal Bore	Gasket ID		IBC Gasket OD		Full Face							Nominal Bore
					Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	27 7/8	708.0	30	762.0		0.0		0.0	36	26
28	28	711.2	29 7/8	758.8	32	812.8		0.0		0.0	40	28
30	30	762.0	31 7/8	809.6	34	863.6		0.0		0.0	44	30
32	32	812.8	33 7/8	860.4	36	914.4		0.0		0.0	48	32
34	34	863.6	35 7/8	911.2	38	965.2		0.0		0.0	52	34
36	36	914.4	38 5/16	973.1	40 11/16	1033.5	7/8	22.2	39 1/16	992.2	40	36
38	38	965.2	40 5/16	1023.9		0.0		0.0		0.0		38
40	40	1016.0		0.0		0.0		0.0		0.0		40
42	42	1066.8		0.0		0.0		0.0		0.0		42
44	44	1117.6		0.0		0.0		0.0		0.0		44
46	46	1168.4		0.0		0.0		0.0		0.0		46
48	48	1219.2		0.0		0.0		0.0		0.0		48
50	50	1270.0		0.0		0.0		0.0		0.0		50
52	52	1320.8		0.0		0.0		0.0		0.0		52
54	54	1371.6		0.0		0.0		0.0		0.0		54
56	56	1422.4		0.0		0.0		0.0		0.0		56
58	58	1473.2		0.0		0.0		0.0		0.0		58
60	60	1524.0		0.0		0.0		0.0		0.0		60

Dimensions for Flat Ring and Full Face Applications

ASME B16.47 Series B Class 150 (Previously API 605)

Nominal Bore	Gasket ID		IBC Gasket OD		Full Face							Nominal Bore
					Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	28 9/16	725.5	30 15/16	785.8	7/8	22.2	29 5/16	744.5	36	26
28	28	711.2	30 9/16	776.3	32 15/16	836.6	7/8	22.2	31 5/16	795.3	40	28
30	30	762.0	32 9/16	827.1	34 15/16	887.4	7/8	22.2	33 5/16	846.1	44	30
32	32	812.8	34 11/16	881.1	37 1/16	941.4	7/8	22.2	35 7/16	900.1	48	32
34	34	863.6	36 13/16	935.0	39 9/16	1004.9	1	25.4	37 11/16	957.3	40	34
36	36	914.4	38 7/8	987.4	41 5/8	1057.3	1	25.4	39 3/4	1009.7	44	36
38	38	965.2	41 1/8	1044.6	44 1/4	1124.0	1 1/8	28.6	42 1/8	1070.0	40	38
40	40	1016.0	43 1/8	1095.4	46 1/4	1174.8	1 1/8	28.6	44 1/8	1120.8	44	40
42	42	1066.8	45 1/8	1146.2	48 1/4	1225.6	1 1/8	28.6	46 1/8	1171.6	48	42
44	44	1117.6	47 1/8	1197.0	50 1/4	1276.4	1 1/8	28.6	48 1/8	1222.4	52	44
46	46	1168.4	49 7/16	1255.7	52 13/16	1341.4	1 1/4	31.8	50 9/16	1284.3	40	46
48	48	1219.2	51 7/16	1306.5	54 13/16	1392.2	1 1/4	31.8	52 9/16	1335.1	44	48
50	50	1270.0	53 7/16	1357.3	56 13/16	1443.0	1 1/4	31.8	54 9/16	1385.9	48	50
52	52	1320.8	55 7/16	1408.1	58 13/16	1493.8	1 1/4	31.8	56 9/16	1436.7	52	52
54	54	1371.6	57 5/8	1463.7	61	1549.4	1 1/4	31.8	58 3/4	1492.3	56	54
56	56	1422.4	59 5/8	1514.5	63	1600.2	1 1/4	31.8	60 3/4	1543.1	60	56
58	58	1473.2	62 3/16	1579.6	65 15/16	1674.8	1 3/8	34.9	63 7/16	1611.3	48	58
60	60	1524.0	64 3/16	1630.4	67 15/16	1725.6	1 3/8	34.9	65 7/16	1662.1	52	60

Dimensions for Flat Ring and Full Face Applications

ASME B16.47 Series B Class 300 (Previously API 605)

Nominal Bore	Gasket ID		IBC Gasket OD		Full Face							Nominal Bore
					Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	30 3/8	771.5	34 1/8	866.8	1 3/8	34.9	31 5/8	803.3	32	26
28	28	711.2	32 1/2	825.5	36 1/4	920.8	1 3/8	34.9	33 3/4	857.3	36	28
30	30	762.0	34 7/8	885.8	39	990.6	1 1/2	38.1	36 1/4	920.8	36	30
32	32	812.8	37	939.8	41 1/2	1054.1	1 5/8	41.3	38 1/2	977.9	32	32
34	34	863.6	39 1/8	993.8	43 5/8	1108.1	1 5/8	41.3	40 5/8	1031.9	36	34
36	36	914.4	41 1/4	1047.8	46 1/8	1171.6	1 3/4	44.5	42 7/8	1089.0	32	36
38	38	965.2	43 1/4	1098.6	48 1/8	1222.4	1 3/4	44.5	44 7/8	1139.8	36	38
40	40	1016.0	45 1/4	1149.4	50 1/8	1273.2	1 3/4	44.5	46 7/8	1190.6	40	40
42	42	1066.8	47 1/4	1200.2	52 1/2	1333.5	1 7/8	47.6	49	1244.6	36	42
44	44	1117.6	49 1/4	1251.0	54 1/2	1384.3	1 7/8	47.6	51	1295.4	40	44
46	46	1168.4	51 7/8	1317.6	57 1/2	1460.5	2	50.8	53 3/4	1365.3	36	46
48	48	1219.2	53 7/8	1368.4	59 1/2	1511.3	2	50.8	55 3/4	1416.1	40	48
50	50	1270.0	55 7/8	1419.2	61 1/2	1562.1	2	50.8	57 3/4	1466.9	44	50
52	52	1320.8	57 7/8	1470.0	63 1/2	1612.9	2	50.8	59 3/4	1517.7	48	52
54	54	1371.6	61 1/4	1555.8	65 7/8	1673.2	2	50.8	62 1/8	1578.0	48	54
56	56	1422.4	62 3/4	1593.9	69 1/2	1765.3	2 3/8	60.3	65	1651.0	36	56
58	58	1473.2	65 7/8	1673.2	71 15/16	1827.2	2 3/8	60.3	67 7/16	1712.9	40	58
60	60	1524.0	67 1/8	1705.0	73 15/16	1878.0	2 3/8	60.3	69 7/16	1763.7	40	60

Dimensions for Male - Female and Tongue and Groove Gaskets

ANSI Flanges - All Pressure Classes

Nominal Diameter	Large Male-Female								Small Tongue and Groove				Large Tongue and Groove			
	Class 150-1500				Class 2500				Outer Diameter		Inner Diameter		Outer Diameter		Inner Diameter	
	Outer Diameter		Inner Diameter		Outer Diameter		Inner Diameter									
1/4	1	25.4	1/2	12.7	-	-	-	-	-	-	-	-	1	-	1/2	-
1/2	1 3/8	34.9	1	25.4	1 3/8	34.9	13/16	20.6	1 3/8	34.9	1	25.4	1 3/8	34.9	1	25.4
3/4	1 11/16	42.9	1 5/16	33.3	1 11/16	42.9	1 1/16	27.0	1 11/16	42.9	1 5/16	33.3	1 11/16	42.9	1 5/16	33.3
1	2	50.8	1 1/2	38.1	2	50.8	1 1/4	31.8	1 7/8	47.6	1 1/2	38.1	2	50.8	1 1/2	38.1
1 1/4	2 1/2	63.5	1 7/8	47.6	2 1/2	63.5	1 5/8	41.3	2 1/4	57.2	1 7/8	47.6	2 1/2	63.5	1 7/8	47.6
1 1/2	2 7/8	73.0	2 1/8	54.0	2 7/8	73.0	1 7/8	47.6	2 1/2	63.5	2 1/8	54.0	2 7/8	73.0	2 1/8	54.0
2	3 5/8	92.1	2 7/8	73.0	3 5/8	92.1	2 3/8	60.3	3 1/4	82.6	2 7/8	73.0	3 5/8	92.1	2 7/8	73.0
2 1/2	4 1/8	104.8	3 3/8	85.7	4 1/8	104.8	3	76.2	3 3/4	95.3	3 3/8	85.7	4 1/8	104.8	3 3/8	85.7
3	5	127.0	4 1/4	108.0	5	127.0	3 3/4	95.3	4 5/8	117.5	4 1/4	108.0	5	127.0	4 1/4	108.0
3 1/2	5 1/2	139.7	4 3/4	120.7	-	-	-	-	5 1/8	130.2	4 3/4	120.7	5 1/2	139.7	4 3/4	120.7
4	6 3/16	157.2	5 3/16	131.8	6 3/16	157.2	4 3/4	120.7	5 11/16	144.5	5 3/16	131.8	6 3/16	157.2	5 3/16	131.8
4 1/2	6 3/4	171.5	5 11/16	144.5	-	-	-	-	-	-	-	-	6 3/4	171.5	5 11/16	144.5
5	7 5/16	185.7	6 5/16	160.3	7 5/16	185.7	5 3/4	146.1	6 13/16	173.0	6 5/16	160.3	7 5/16	185.7	6 5/16	160.3
6	8 1/2	215.9	7 1/2	190.5	8 1/2	215.9	6 3/4	171.5	8	203.2	7 1/2	190.5	8 1/2	215.9	7 1/2	190.5
8	10 5/8	269.9	9 3/8	238.1	10 5/8	269.9	8 3/4	222.3	10	254.0	9 3/8	238.1	10 5/8	269.9	9 3/8	238.1
10	12 3/4	323.9	11 1/4	285.8	12 3/4	323.9	10 3/4	273.1	12	304.8	11 1/4	285.8	12 3/4	323.9	11 1/4	285.8
12	15	381.0	13 1/2	342.9	15	381.0	13	330.2	14 1/4	362.0	13 1/2	342.9	15	381.0	13 1/2	342.9
14	16 1/4	412.8	14 3/4	374.7	-	-	-	-	15 1/2	393.7	14 3/4	374.7	16 1/4	412.8	14 3/4	374.7
16	18 1/2	469.9	17	431.8	-	-	-	-	17 5/8	447.7	16 3/4	425.5	18 1/2	469.9	17	431.8
18	21	533.4	19 1/4	489.0	-	-	-	-	20 1/8	511.2	19 1/4	489.0	21	533.4	19 1/4	489.0
20	23	584.2	21	533.4	-	-	-	-	22	558.8	21	533.4	23	584.2	21	533.4
24	27 1/4	692.2	25 1/4	641.4	-	-	-	-	26 1/4	666.8	25 1/4	641.4	27 1/4	692.2	25 1/4	641.4

Dimensions for Flat Ring and Full Face Applications

ASME B16.47 Series B Class 600 (Previously API 605)

Nominal Bore	Gasket ID		IBC Gasket OD		Full Face						Number of Bolt Holes	Nominal Bore
					Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.			
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	30 1/8	765.2	35	889.0	1 3/4	44.5	31 3/4	806.5	28	26
28	28	711.2	32 1/4	819.2	37 1/2	952.5	1 7/8	47.6	34	863.6	28	28
30	30	762.0	34 5/8	879.5	40 1/4	1022.4	2	50.8	36 1/2	927.1	28	30
32	32	812.8	36 3/4	933.5	42 3/4	1085.9	2 1/8	54.0	38 3/4	984.3	28	32
34	34	863.6	39 1/4	997.0	45 3/4	1162.1	2 3/8	60.3	41 1/2	1054.1	24	34
36	36	914.4	41 1/4	1047.8	47 3/4	1212.9	2 3/8	60.3	43 1/2	1104.9	28	36

Dimensions for Flat Ring and Full Face Applications

BS EN 1514-1 PN 2.5

Nominal Bore	IBC and Full Face Inner Diameter	IBC Outer Diameter	Full Face Gaskets for PN 2.5			
			Outer Diameter	Bolt P.C.D.	Diameter of bolt holes	Number of Bolt Holes
10	18	39	75	50	11	4
15	22	44	80	55	11	4
20	28	54	90	65	11	4
25	35	64	100	75	11	4
32	43	76	120	90	14	4
40	49	86	130	100	14	4
50	61	96	140	110	14	4
65	77	116	160	130	14	4
80	90	132	190	150	18	4
100	115	152	210	170	18	4
125	141	182	240	200	18	8
150	169	207	265	225	18	8
200	220	262	320	280	18	8
250	274	317	375	335	18	12
300	325	373	440	395	22	12
350	356	423	490	445	22	12
400	407	473	540	495	22	16
450	458	528	595	550	22	16
500	508	578	645	600	22	20
600	610	679	755	705	26	20
700	712	784	-	-	-	-
800	813	890	-	-	-	-
900	915	990	-	-	-	-
1000	1016	1090	-	-	-	-
1100	1120	-	-	-	-	-
1200	1220	1290	-	-	-	-
1400	1420	1490	-	-	-	-
1500	-	-	-	-	-	-
1600	1620	1700	-	-	-	-
1800	1820	1900	-	-	-	-
2000	2020	2100	-	-	-	-
2200	2220	2307	-	-	-	-
2400	2420	2507	-	-	-	-
2600	2620	2707	-	-	-	-
2800	2820	2924	-	-	-	-
3000	3020	3124	-	-	-	-
3200	3220	3324	-	-	-	-
3400	3420	3524	-	-	-	-
3600	3620	3734	-	-	-	-
3800	3820	3931	-	-	-	-
4000	4020	4131	-	-	-	-

Dimensions for Flat Ring and Full Face Applications

BS EN 1514-1 PN 6

Nominal Bore	IBC and Full Face Inner Diameter	IBC Outer Diameter	Full Face Gaskets for PN 6			
			Outer Diameter	Bolt P.C.D.	Diameter of bolt holes	Number of Bolt Holes
10	18	39	75	50	11	4
15	22	44	80	55	11	4
20	28	54	90	65	11	4
25	35	64	100	75	11	4
32	43	76	120	90	14	4
40	49	86	130	100	14	4
50	61	96	140	110	14	4
65	77	116	160	130	14	4
80	90	132	190	150	18	4
100	115	152	210	170	18	4
125	141	182	240	200	18	8
150	169	207	265	225	18	8
175	195	237	295	255	18	8
200	220	262	320	280	18	8
250	274	317	375	335	18	12
300	325	373	440	395	22	12
350	356	423	490	445	22	12
400	407	473	540	495	22	16
450	458	528	595	550	22	16
500	508	578	645	600	22	20
600	610	679	755	705	26	20
700	712	784	860	810	26	24
800	813	890	975	920	30	24
900	915	990	1075	1020	30	24
1000	1016	1090	1175	1120	30	28
1200	1220	1307	1405	1340	33	32
1400	1420	1524	1630	1560	36	36
1600	1620	1724	1830	1760	36	40
1800	1820	1931	2045	1960	39	44
2000	2020	2138	2265	2180	42	48
2200	2220	2348	2475	2390	42	52
2400	2420	2558	2685	2600	42	56
2600	2620	2762	2905	2810	48	60
2800	2820	2972	3115	3020	48	64
3000	3020	3172	3315	3220	48	68
3200	3220	3382	3525	3430	48	72
3400	3420	3592	3735	3640	48	76
3600	3620	3804	3970	3860	56	80

Dimensions for Flat Ring and Full Face Applications

BS EN 1514-1 PN 16

	Inner Diameter	IBC Gasket Outer Diameter	Full Face Gaskets for PN 16				Spigot and Recess Outer Diameter	Tongue and Groove		Pipe Dimensions		
			Outer Diameter	Bolt P.C.D.	Diameter of bolt holes	Number of Bolt Holes		Outer Diameter	Inner Diameter	Pipe O/D	Pipe Thickness	Pipe Bore
10	18	45	90	60	14	4	34	34	24	17.2	1.8	13.6
15	22	50	95	65	14	4	39	39	29	21.3	2	17.3
20	28	60	105	75	14	4	50	50	36	26.9	2.3	22.3
25	35	70	115	85	14	4	57	57	43	33.7	2.6	28.5
32	43	82	140	100	18	4	65	65	51	42.4	2.6	37.2
40	49	92	150	110	18	4	75	75	61	48.3	2.6	43.1
50	61	107	165	125	18	4	87	87	73	60.3	2.9	54.5
65	77	127	185	145	18	8	109	109	95	76.1	2.9	70.3
80	90	142	200	160	18	8	120	120	106	88.9	3.2	82.5
100	115	162	220	180	18	8	149	149	129	114.3	3.6	107.1
125	141	192	250	210	18	8	175	175	155	139.7	4	131.7
150	169	218	285	240	22	8	203	203	183	168.3	4.5	159.3
200	220	273	340	295	22	12	259	259	239	219.1	5.9	207.3
250	274	329	405	355	26	12	312	312	292	273	6.3	260.4
300	325	384	460	410	26	12	363	363	343	323.9	7.1	309.7
350	356	444	520	470	26	16	421	421	395	355.6	8	339.6
400	407	495	580	525	30	16	473	473	447	406.4	8	390.4
450	458	555	640	585	30	20	523	523	473	-	-	-
500	508	617	715	650	33	20	575	575	549	508	8	492
600	610	734	840	770	36	20	675	675	649	610	8.8	592.4
700	712	804	910	840	36	24	777	777	751	711	8.8	693.4
800	813	911	1025	950	39	24	882	882	856	813	10	793
900	915	1011	1125	1050	39	28	987	987	961	914	10	894
1000	1016	1128	1255	1170	42	28	1092	1092	1062	1016	10	996
1100	1120	1228	1355	1270	42	32	-	-	-	-	-	-
1200	1220	1342	1485	1390	48	32	-	-	-	1220	12.5	1195
1400	1420	1542	1685	1590	48	36	-	-	-	1420	14.2	1391.6
1500	1520	1654	1820	1710	56	36	-	-	-	-	-	-
1600	1620	1764	1930	1820	56	40	-	-	-	1620	16	1588
1800	1820	1964	2130	2020	56	44	-	-	-	1820	17.5	1785
2000	2020	2168	2345	2230	62	48	-	-	-	2020	20	1980
2200	2220						-	-	-			
2400	2420						-	-	-			
2600	2620						-	-	-			
2800	2820						-	-	-			
3000	3020						-	-	-			
3200	3220						-	-	-			
3400	3420						-	-	-			
3600	3620						-	-	-			

Dimensions for Flat Ring and Full Face Applications

JIS - 5K

Nominal Diameter	IBC and Full Face Gasket Inner Diameter	IBC Gasket Outer Diameter	Full Face			
			Gasket Outer Diameter	Bolt P.C.D.	Diameter of Bolt Holes	Number of Bolts
10	17.8	45	75	55	12	4
15	22.2	50	80	60	12	4
20	27.7	55	85	65	12	4
25	34.5	65	95	75	12	4
32	43.2	78	115	90	15	4
40	49.1	83	120	95	15	4
50	61.1	93	130	105	15	4
65	77.1	118	155	130	15	4
80	90.0	129	180	145	19	4
90	102.6	139	190	155	19	4
100	115.4	149	200	165	19	8
125	141.2	184	235	200	19	8
150	166.6	214	265	230	19	8
175	192.1	240	300	260	23	8
200	218.0	260	320	280	23	8
225	243.7	285	345	305	23	12
250	269.5	325	385	345	23	12
300	310.0	370	430	390	23	12
350	358.1	413	480	435	25	12
400	409.0	473	540	495	25	16
450	460.0	533	605	555	25	16
500	511.0	583	655	605	25	20
550	562.0	641	720	665	27	20
600	613.0	691	770	715	27	20
650	664.0	746	825	770	27	24
700	715.0	796	875	820	27	24
750	766.0	850	945	880	33	24
800	817.0	900	995	930	33	24
850	868.0	950	1045	980	33	24
900	919.0	1000	1095	1030	33	24
1000	1021.0	1100	1195	1130	33	28

Dimensions for Flat Ring and Full Face Applications

JIS - 10K

Nominal Diameter	IBC and Full Face Gasket Inner Diameter	IBC Gasket OD	Full Face Gasket			
			Outer Diameter	Bolt P.C.D.	Diameter of Bolt Holes	Number of Bolt Holes
10	18	53	90	65	15	4
15	22	58	95	70	15	4
20	28	63	100	75	15	4
25	35	74	125	90	19	4
32	43	84	135	100	19	4
40	49	89	140	105	19	4
50	61	104	155	120	19	4
65	77	124	175	140	19	4
80	90	134	185	150	19	8
90	103	144	195	160	19	8
100	115	159	210	175	19	8
125	141	190	250	210	23	8
150	167	220	280	240	23	8
175	192	245	305	265	23	12
200	218	270	330	290	23	12
225	244	290	350	310	23	12
250	270	333	400	355	25	12
300	321	378	445	400	25	16
350	359	423	490	443	25	16
400	410	486	560	510	27	16
450	460	541	620	565	27	20
500	513	596	675	620	27	20
550	564	650	745	680	33	20
600	615	700	795	730	33	24
650	667	750	845	780	33	24
700	718	810	905	840	33	24
750	770	870	970	900	33	24
800	820	920	1020	950	33	28
850	872	970	1070	1000	33	28
900	923	1020	1120	1050	33	28
1000	1025	1124	1235	1160	39	28

Dimensions for Flat Ring and Full Face Applications

JIS - 16K

Nominal Diameter	IBC and Full Face Gasket Inner Diameter	IBC Gasket Outer Diameter	Full Face Gasket			
			Outer Diameter	Bolt P.C.D.	Diameter of Bolt Holes	Number of Bolt Holes
10	18	53	90	65	15	4
15	22	58	95	70	15	4
20	28	63	100	75	15	4
25	35	74	125	90	19	4
32	43	84	135	100	19	4
40	49	89	140	105	19	4
50	61	104	155	120	19	8
65	77	124	175	140	19	8
80	90	140	200	160	23	8
90	102	150	210	170	23	8
100	115	165	225	185	23	8
125	141	203	270	225	25	8
150	167	238	305	260	25	12
175	-	-	-	-	-	-
200	218	283	350	305	25	12
225	-	-	-	-	-	-
250	270	356	430	380	27	12
300	321	406	480	430	27	16
350	359	450	540	480	33	16
400	410	510	605	540	33	16
450	460	575	675	605	33	20
500	513	630	730	660	33	20
550	564	684	795	720	39	20
600	615	734	845	770	39	24

Dimensions for Flat Ring and Full Face Applications

JIS - 20K

Nominal Diameter	IBC and Full Face Gasket Inner	IBC Gasket Outer Diameter	Full Face Gasket			
			Outer Diameter	Bolt P.C.D.	Diameter of Bolt Holes	Number of Bolt Holes
10	18	53	90	65	15	4
15	22	58	95	70	15	4
20	28	63	100	75	15	4
25	35	74	125	90	19	4
32	43	84	135	100	19	4
40	49	89	140	105	19	4
50	61	104	155	120	19	8
65	77	124	175	140	19	8
80	90	140	200	160	23	8
90	103	150	210	170	23	8
100	115	165	225	185	23	8
125	141	203	270	225	25	8
150	167	238	305	260	25	12
200	218	283	350	305	25	12
250	270	356	430	380	27	12
300	310	406	480	430	27	16
350	358	450	540	480	33	16
400	409	510	605	540	33	16
450	460	575	675	605	33	20
500	511	630	730	660	33	20
550	562	684	795	720	39	20
600	613	734	845	770	39	24

Dimensions for Male - Female and Tongue and Groove Gaskets

JIS - All Pressure Classes

Nominal Diameter	Male-Female		Tongue and Groove	
	Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter
10	38	18	38	28
15	42	22	42	32
20	50	28	50	38
25	60	35	60	45
32	70	43	70	55
40	75	49	75	60
50	90	61	90	70
65	110	77	110	90
80	120	90	120	100
90	130	102	130	110
100	145	115	145	125
125	175	141	175	150
150	215	167	215	190
175	-	-	-	-
200	260	218	260	230
225	-	-	-	-
250	325	270	325	295
300	375	321	375	340
350	415	359	415	380
400	475	410	475	440
450	523	460	523	483
500	575	513	575	535
550	625	564	625	585
600	675	615	675	635
650	727	667	727	682
700	777	718	777	732
750	832	770	832	787
800	882	820	882	837
850	934	872	934	889
900	987	923	987	937
1000	1092	1025	1092	1042
1100	1192	1130	1192	1142
1200	1292	1230	1292	1237
1300	1392	1335	1392	1337
1350	1442	1385	1442	1387
1400	1492	1435	1492	1437
1500	1592	1540	1592	1537

Dimensions for Flat Ring and Full Face Applications

Taylor Forge - Class 75 Weld Neck and Blind Flanges

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face						Nominal Pipe Size	
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.			Number of Bolt Holes
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	28 5/8	727.1	31 1/2	800.1	1	25.4	29 5/8	752.5	32	26
28	28	711.2	30 5/8	777.9	33 1/2	850.9	1	25.4	31 5/8	803.3	36	28
30	30	762.0	32 5/8	828.7	35 1/2	901.7	1	25.4	33 5/8	854.1	36	30
32	32	812.8	35	889.0	38 1/4	971.6	1 1/8	28.6	36 1/8	917.6	36	32
34	34	863.6	37	939.8	40 1/4	1022.4	1 1/8	28.6	38 1/8	968.4	40	34
36	36	914.4	39	990.6	42 1/4	1073.2	1 1/8	28.6	40 1/8	1019.2	40	36
42	42	1066.8	45 1/2	1155.7	49	1244.6	1 1/4	31.8	46 3/4	1187.5	48	42
48	48	1219.2	51 1/2	1308.1	55	1397.0	1 1/4	31.8	52 3/4	1339.9	52	48
54	54	1371.6	57 3/4	1466.9	61 1/4	1555.8	1 1/4	31.8	59	1498.6	64	54
60	60	1524.0	63 3/4	1619.3	67 1/4	1708.2	1 1/4	31.8	65	1651.0	72	60
66	66	1676.4	70 1/8	1781.2	74	1879.6	1 3/8	34.9	71 1/2	1816.1	72	66
72	72	1828.8	76 1/8	1933.6	80	2032.0	1 3/8	34.9	77 1/2	1968.5	80	72

Taylor Forge - Class 75 Slip-on Flanges

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face						Nominal Pipe Size	
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.			Number of Bolt Holes
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	29	736.6	33	838.2	1	25.4	31	787.4	32	26
28	28	711.2	31	787.4	35	889.0	1	25.4	33	838.2	36	28
30	30	762.0	33	838.2	37	939.8	1	25.4	35	889.0	36	30
32	32	812.8	35 1/8	892.2	39 1/2	1003.3	1 1/8	28.6	37 3/8	949.3	40	32
34	34	863.6	37 1/8	943.0	41 1/2	1054.1	1 1/8	28.6	39 3/8	1000.1	40	34
36	36	914.4	39 1/8	993.8	43 1/2	1104.9	1 1/8	28.6	41 3/8	1050.9	44	36
42	42	1066.8	45 1/4	1149.4	50	1270.0	1 1/4	31.8	47 3/4	1212.9	48	42
48	48	1219.2	51 1/4	1301.8	56	1422.4	1 1/4	31.8	53 3/4	1365.3	56	48
54	54	1371.6	57 3/4	1466.9	62 1/2	1587.5	1 1/4	31.8	60 1/4	1530.4	68	54
60	60	1524.0	63 3/4	1619.3	68 1/2	1739.9	1 1/4	31.8	66 1/4	1682.8	72	60
66	66	1676.4	70 1/4	1784.4	75 1/2	1917.7	1 3/8	34.9	73	1854.2	72	66
72	72	1828.8	76 1/4	1936.8	77 5/8	1971.7	1 3/8	34.9	79	2006.6	80	72

Dimensions for Flat Ring and Full Face Applications

Taylor Forge - Class 125

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26 1/4	666.8	30 3/8	771.5	34 1/4	870.0	1 3/8	34.9	31 3/4	806.5	24	26
28	28 1/4	717.6	32 5/8	828.7	36 1/2	927.1	1 3/8	34.9	34	863.6	28	28
30	30 1/4	768.4	34 5/8	879.5	38 3/4	984.3	1 3/8	34.9	36	914.4	28	30
32	32 1/4	819.2	36 7/8	936.6	41 3/4	1060.5	1 5/8	41.3	38 1/2	977.9	28	32
34	34 1/4	870.0	38 7/8	987.4	43 3/4	1111.3	1 5/8	41.3	40 1/2	1028.7	32	34
36	36 1/4	920.8	41 1/8	1044.6	46	1168.4	1 5/8	41.3	42 3/4	1085.9	32	36
38	38 1/4	971.6	43 5/8	1108.1	48 3/4	1238.3	1 5/8	41.3	45 1/4	1149.4	32	38
40	40 1/4	1022.4	45 5/8	1158.9	50 3/4	1289.1	1 5/8	41.3	47 1/4	1200.2	36	40
42	42 1/4	1073.2	47 7/8	1216.0	53	1346.2	1 5/8	41.3	49 1/2	1257.3	36	42
44	44 1/4	1124.0	50 1/8	1273.2	55 1/4	1403.4	1 5/8	41.3	51 3/4	1314.5	40	44
46	46 1/4	1174.8	52 1/8	1324.0	57 1/4	1454.2	1 5/8	41.3	53 3/4	1365.3	40	46
48	48 1/4	1225.6	54 3/8	1381.1	59 1/2	1511.3	1 5/8	41.3	56	1422.4	44	48
50	50 1/4	1276.4	56 3/8	1431.9	61 3/4	1568.5	1 7/8	47.6	58 1/4	1479.6	44	50
52	52 1/4	1327.2	58 5/8	1489.1	64	1625.6	1 7/8	47.6	60 1/2	1536.7	44	52
54	54 1/4	1378.0	60 7/8	1546.2	66 3/4	1695.5	1 7/8	47.6	62 3/4	1593.9	44	54
60	60 1/4	1530.4	67 3/8	1711.3	73	1854.2	1 7/8	47.6	69 1/4	1759.0	52	60
66	66 1/4	1682.8	74 1/8	1882.8	80	2032.0	1 7/8	47.6	76	1930.4	52	66
72	72 1/4	1835.2	80 5/8	2047.9	86 1/2	2197.1	1 7/8	47.6	82 1/2	2095.5	60	72
84	84 1/4	2140.0	93 3/8	2371.7	99 3/4	2533.7	2 1/8	54.0	95 1/2	2425.7	64	84
96	96 1/4	2444.8	106 1/8	2695.6	113 1/4	2876.6	2 3/8	60.3	108 1/2	2755.9	68	96

Dimensions for Flat Ring and Full Face Applications

Taylor Forge - Class 175

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	29	736.6	31 1/2	800.1	7/8	22.2	29 7/8	758.8	28	26
28	28	711.2	31	787.4	33 1/2	850.9	7/8	22.2	31 7/8	809.6	28	28
30	30	762.0	33 1/4	844.6	35 3/4	908.1	7/8	22.2	34 1/8	866.8	36	30
32	32	812.8	35 1/4	895.4	37 3/4	958.9	7/8	22.2	36 1/8	917.6	36	32
34	34	863.6	37 3/8	949.3	40 1/4	1022.4	1	25.4	38 3/8	974.7	36	34
36	36	914.4	39 3/8	1000.1	42 1/4	1073.2	1	25.4	40 3/8	1025.5	36	36
38	38	965.2	41 3/8	1050.9	44 1/4	1124.0	1	25.4	42 3/8	1076.3	36	38
40	40	1016.0	43 3/8	1101.7	46 1/4	1174.8	1	25.4	44 3/8	1127.1	40	40
42	42	1066.8	45 3/4	1162.1	49	1244.6	1 1/8	28.6	46 7/8	1190.6	40	42
44	44	1117.6	47 3/4	1212.9	51	1295.4	1 1/8	28.6	48 7/8	1241.4	40	44
46	46	1168.4	49 3/4	1263.7	53	1346.2	1 1/8	28.6	50 7/8	1292.2	40	46
48	48	1219.2	51 3/4	1314.5	55	1397.0	1 1/8	28.6	52 7/8	1343.0	44	48
50	50	1270.0	53 3/4	1365.3	57	1447.8	1 1/8	28.6	54 7/8	1393.8	44	50
52	52	1320.8	56	1422.4	59 1/2	1511.3	1 1/4	31.8	57 1/4	1454.2	44	52
54	54	1371.6	58	1473.2	61 1/2	1562.1	1 1/4	31.8	59 1/4	1505.0	44	54
60	60	1524.0	64	1625.6	67 1/2	1714.5	1 1/4	31.8	65 1/4	1657.4	48	60
66	66	1676.4	70	1778.0	73 1/2	1866.9	1 1/4	31.8	71 1/4	1809.8	56	66
72	72	1828.8	76 1/2	1943.1	80	2032.0	1 1/4	31.8	77 3/4	1974.9	64	72
84	84	2133.6	90 1/8	2289.2	94	2387.6	1 3/8	34.9	91 1/2	2324.1	72	84
96	96	2438.4	102 1/8	2594.0	106	2692.4	1 3/8	34.9	103 1/2	2628.9	88	96

Dimensions for Flat Ring and Full Face Applications

Taylor Forge - Class 250

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26 1/4	666.8	32 5/8	828.7	38 1/4	971.6	1 7/8	47.6	34 1/2	876.3	28	26
28	28 1/4	717.6	35 1/8	892.2	40 3/4	1035.1	1 7/8	47.6	37	939.8	28	28
30	30 1/4	768.4	37 3/8	949.3	43	1092.2	1 7/8	47.6	39 1/4	997.0	28	30
32	32 1/4	819.2	39 5/8	1006.5	45 1/4	1149.4	1 7/8	47.6	41 1/2	1054.1	28	32
34	34 1/4	870.0	41 5/8	1057.3	47 1/2	1206.5	1 7/8	47.6	43 1/2	1104.9	28	34
36	36 1/4	920.8	43 7/8	1114.4	50	1270.0	2 1/8	54.0	46	1168.4	32	36
38	38 1/4	971.6	45 7/8	1165.2	52 1/4	1327.2	2 1/8	54.0	48	1219.2	32	38
40	40 1/4	1022.4	48 1/8	1222.4	54 1/2	1384.3	2 1/8	54.0	50 1/4	1276.4	36	40
42	42 1/4	1073.2	50 5/8	1285.9	57	1447.8	2 1/8	54.0	52 3/4	1339.9	36	42
44	44 1/4	1124.0	52 7/8	1343.0	59 1/4	1505.0	2 1/8	54.0	55	1397.0	36	44
46	46 1/4	1174.8	55 1/8	1400.2	61 1/2	1562.1	2 1/8	54.0	57 1/4	1454.2	40	46
48	48 1/4	1225.6	58 5/8	1489.1	65	1651.0	2 1/8	54.0	60 3/4	1543.1	40	48

Dimensions for Flat Ring and Full Face Applications

Taylor Forge - Class 350

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
26	26	660.4	29 1/2	749.3	32 3/4	831.9	1 1/8	28.6	30 5/8	777.9	28	26
28	28	711.2	31 1/2	800.1	34 3/4	882.7	1 1/8	28.6	32 5/8	828.7	28	28
30	30	762.0	33 3/4	857.3	37	939.8	1 1/8	28.6	34 7/8	885.8	32	30
32	32	812.8	35 3/4	908.1	39	990.6	1 1/8	28.6	36 7/8	936.6	36	32
34	34	863.6	37 3/4	958.9	41	1041.4	1 1/8	28.6	38 7/8	987.4	40	34
36	36	914.4	40 1/4	1022.4	43 3/4	1111.3	1 1/4	31.8	41 1/2	1054.1	40	36
38	38	965.2	42 1/4	1073.2	45 3/4	1162.1	1 1/4	31.8	43 1/2	1104.9	40	38
40	40	1016.0	44 1/4	1124.0	47 3/4	1212.9	1 1/4	31.8	45 1/2	1155.7	44	40
42	42	1066.8	46 1/2	1181.1	50	1270.0	1 1/4	31.8	47 3/4	1212.9	48	42
44	44	1117.6	48 7/8	1241.4	52 3/4	1339.9	1 3/8	34.9	50 1/4	1276.4	44	44
46	46	1168.4	50 7/8	1292.2	54 3/4	1390.7	1 3/8	34.9	52 1/4	1327.2	48	46
48	48	1219.2	52 7/8	1343.0	56 3/4	1441.5	1 3/8	34.9	54 1/4	1378.0	48	48
52	52	1320.8	57 1/4	1454.2	61 1/2	1562.1	1 1/2	38.1	58 3/4	1492.3	52	52
54	54	1371.6	59 1/4	1505.0	63 1/2	1612.9	1 1/2	38.1	60 3/4	1543.1	52	54
60	60	1524.0	65 1/4	1657.4	69 1/2	1765.3	1 1/2	38.1	66 3/4	1695.5	60	60
66	66	1676.4	72 3/8	1838.3	77	1955.8	1 5/8	41.3	74	1879.6	60	66
72	72	1828.8	78 3/8	1990.7	83	2108.2	1 5/8	41.3	80	2032.0	72	72
84	84	2133.6	91 7/8	2333.6	96 1/2	2451.1	1 3/8	34.9	93 1/4	2368.6	80	84
96	96	2438.4	103 7/8	2638.4	109 1/4	2775.0	1 7/8	47.6	105 3/4	2686.1	84	96

Dimensions for Flat Ring and Full Face Applications

BS 10 Table A

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 1/16	52.4	3 3/4	95.3	9/16	14.3	2 5/8	66.7	4	1/2
3/4	1 1/16	27.0	2 5/16	58.7	4	101.6	9/16	14.3	2 7/8	73.0	4	3/4
1	1 11/32	34.1	2 11/16	68.3	4 1/2	114.3	9/16	14.3	3 1/4	82.6	4	1
1 1/4	1 11/16	42.9	2 7/8	73.0	4 3/4	120.7	9/16	14.3	3 7/16	87.3	4	1 1/4
1 1/2	1 29/32	48.4	3 5/16	84.1	5 1/4	133.4	9/16	14.3	3 7/8	98.4	4	1 1/2
2	2 3/8	60.3	3 13/16	96.8	6	152.4	11/16	17.5	4 1/2	114.3	4	2
2 1/2	3	76.2	4 5/16	109.5	6 1/2	165.1	11/16	17.5	5	127.0	4	2 1/2
3	3 1/2	88.9	5 1/16	128.6	7 1/4	184.2	11/16	17.5	5 3/4	146.1	4	3
3 1/2	4	101.6	5 13/16	147.6	8	203.2	11/16	17.5	6 1/2	165.1	4	3 1/2
4	4 1/2	114.3	6 5/16	160.3	8 1/2	215.9	11/16	17.5	7	177.8	4	4
5	5 1/2	139.7	7 9/16	192.1	10	254.0	11/16	17.5	8 1/4	209.6	4	5
6	6 5/8	168.3	8 9/16	217.5	11	279.4	11/16	17.5	9 1/4	235.0	4	6
7	7 5/8	193.7	9 9/16	242.9	12	304.8	11/16	17.5	10 1/4	260.4	8	7
8	8 5/8	219.1	10 13/16	274.6	13 1/4	336.6	11/16	17.5	11 1/2	292.1	8	8
9	9 5/8	244.5	12 1/16	306.4	14 1/2	368.3	11/16	17.5	12 3/4	323.9	8	9
10	10 3/4	273.1	13 1/8	333.4	16	406.4	7/8	22.2	14	355.6	8	10
12	12 3/4	323.9	15 1/8	384.2	18	457.2	7/8	22.2	16	406.4	8	12
13	14	355.6	16 3/8	415.9	19 1/4	489.0	7/8	22.2	17 1/4	438.2	8	13
14	15	381.0	17 1/2	444.5	20 3/4	527.1	1	25.4	18 1/2	469.9	8	14
15	16	406.4	18 1/2	469.9	21 3/4	552.5	1	25.4	19 1/2	495.3	8	15
16	17	431.8	19 1/2	495.3	22 3/4	577.9	1	25.4	20 1/2	520.7	12	16
17	18	457.2	20 3/4	527.1	24	609.6	1	25.4	21 3/4	552.5	12	17
18	19	482.6	22	558.8	25 1/4	641.4	1	25.4	23	584.2	12	18
19	20	508.0	23	584.2	26 1/2	673.1	1	25.4	24	609.6	12	19
20	21	533.4	24 1/4	616.0	27 3/4	704.9	1	25.4	25 1/4	641.4	12	20
21	22	558.8	25 1/2	647.7	29	736.6	1	25.4	26 1/2	673.1	12	21
22	23	584.2	26 3/8	669.9	30	762.0	1 1/8	28.6	27 1/2	698.5	12	22
23	24	609.6	27 3/8	695.3	31	787.4	1 1/8	28.6	28 1/2	723.9	12	23
24	25	635.0	28 5/8	727.1	32 1/2	825.5	1 1/8	28.6	29 3/4	755.7	12	24

Dimensions for Flat Ring and Full Face Applications

BS 10 Table D

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face						Nominal Pipe Size	
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.			Number of Bolt Holes
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 1/16	52.4	3 3/4	95.3	9/16	14.3	2 5/8	66.7	4	1/2
3/4	1 1/16	27.0	2 5/16	58.7	4	101.6	9/16	14.3	2 7/8	73.0	4	3/4
1	1 11/32	34.1	2 11/16	68.3	4 1/2	114.3	9/16	14.3	3 1/4	82.6	4	1
1 1/4	1 11/16	42.9	2 7/8	73.0	4 3/4	120.7	9/16	14.3	3 7/16	87.3	4	1 1/4
1 1/2	1 29/32	48.4	3 5/16	84.1	5 1/4	133.4	9/16	14.3	3 7/8	98.4	4	1 1/2
2	2 3/8	60.3	3 13/16	96.8	6	152.4	11/16	17.5	4 1/2	114.3	4	2
2 1/2	3	76.2	4 5/16	109.5	6 1/2	165.1	11/16	17.5	5	127.0	4	2 1/2
3	3 1/2	88.9	5 1/16	128.6	7 1/4	184.2	11/16	17.5	5 3/4	146.1	4	3
3 1/2	4	101.6	5 13/16	147.6	8	203.2	11/16	17.5	6 1/2	165.1	4	3 1/2
4	4 1/2	114.3	6 5/16	160.3	8 1/2	215.9	11/16	17.5	7	177.8	4	4
5	5 1/2	139.7	7 9/16	192.1	10	254.0	11/16	17.5	8 1/4	209.6	8	5
6	6 5/8	168.3	8 9/16	217.5	11	279.4	11/16	17.5	9 1/4	235.0	8	6
7	7 5/8	193.7	9 9/16	242.9	12	304.8	11/16	17.5	10 1/4	260.4	8	7
8	8 5/8	219.1	10 13/16	274.6	13 1/4	336.6	11/16	17.5	11 1/2	292.1	8	8
9	9 5/8	244.5	12 1/16	306.4	14 1/2	368.3	11/16	17.5	12 3/4	323.9	8	9
10	10 3/4	273.1	13 1/8	333.4	16	406.4	7/8	22.2	14	355.6	8	10
12	12 3/4	323.9	15 1/8	384.2	18	457.2	7/8	22.2	16	406.4	12	12
13	14	355.6	16 3/8	415.9	19 1/4	489.0	7/8	22.2	17 1/4	438.2	12	13
14	15	381.0	17 1/2	444.5	20 3/4	527.1	1	25.4	18 1/2	469.9	12	14
15	16	406.4	18 1/2	469.9	21 3/4	552.5	1	25.4	19 1/2	495.3	12	15
16	17	431.8	19 1/2	495.3	22 3/4	577.9	1	25.4	20 1/2	520.7	12	16
17	18	457.2	20 3/4	527.1	24	609.6	1	25.4	21 3/4	552.5	12	17
18	19	482.6	22	558.8	25 1/4	641.4	1	25.4	23	584.2	12	18
19	20	508.0	23	584.2	26 1/2	673.1	1	25.4	24	609.6	12	19
20	21	533.4	24 1/4	616.0	27 3/4	704.9	1	25.4	25 1/4	641.4	16	20
21	22	558.8	25 1/2	647.7	29	736.6	1	25.4	26 1/2	673.1	16	21
22	23	584.2	26 3/8	669.9	30	762.0	1 1/8	28.6	27 1/2	698.5	16	22
23	24	609.6	27 3/8	695.3	31	787.4	1 1/8	28.6	28 1/2	723.9	16	23
24	25	635.0	28 5/8	727.1	32 1/2	825.5	1 1/8	28.6	29 3/4	755.7	16	24

Dimensions for Flat Ring and Full Face Applications

BS 10 Table E

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 1/16	52.4	3 3/4	95.3	9/16	14.3	2 5/8	66.7	4	1/2
3/4	1 1/16	27.0	2 5/16	58.7	4	101.6	9/16	14.3	2 7/8	73.0	4	3/4
1	1 11/32	34.1	2 11/16	68.3	4 1/2	114.3	9/16	14.3	3 1/4	82.6	4	1
1 1/4	1 11/16	42.9	2 7/8	73.0	4 3/4	120.7	9/16	14.3	3 7/16	87.3	4	1 1/4
1 1/2	1 29/32	48.4	3 5/16	84.1	5 1/4	133.4	9/16	14.3	3 7/8	98.4	4	1 1/2
2	2 3/8	60.3	3 13/16	96.8	6	152.4	11/16	17.5	4 1/2	114.3	4	2
2 1/2	3	76.2	4 5/16	109.5	6 1/2	165.1	11/16	17.5	5	127.0	4	2 1/2
3	3 1/2	88.9	5 1/16	128.6	7 1/4	184.2	11/16	17.5	5 3/4	146.1	4	3
3 1/2	4	101.6	5 13/16	147.6	8	203.2	11/16	17.5	6 1/2	165.1	8	3 1/2
4	4 1/2	114.3	6 5/16	160.3	8 1/2	215.9	11/16	17.5	7	177.8	8	4
5	5 1/2	139.7	7 9/16	192.1	10	254.0	11/16	17.5	8 1/4	209.6	8	5
6	6 5/8	168.3	8 3/8	212.7	11	279.4	7/8	22.2	9 1/4	235.0	8	6
7	7 5/8	193.7	9 3/8	238.1	12	304.8	7/8	22.2	10 1/4	260.4	8	7
8	8 5/8	219.1	10 5/8	269.9	13 1/4	336.6	7/8	22.2	11 1/2	292.1	8	8
9	9 5/8	244.5	11 7/8	301.6	14 1/2	368.3	7/8	22.2	12 3/4	323.9	12	9
10	10 3/4	273.1	13 1/8	333.4	16	406.4	7/8	22.2	14	355.6	12	10
12	12 3/4	323.9	15	381.0	18	457.2	1	25.4	16	406.4	12	12
13	14	355.6	16 1/4	412.8	19 1/4	489.0	1	25.4	17 1/4	438.2	12	13
14	15	381.0	17 1/2	444.5	20 3/4	527.1	1	25.4	18 1/2	469.9	12	14
15	16	406.4	18 1/2	469.9	21 3/4	552.5	1	25.4	19 1/2	495.3	12	15
16	17	431.8	19 1/2	495.3	22 3/4	577.9	1	25.4	20 1/2	520.7	12	16
17	18	457.2	20 3/4	527.1	24	609.6	1	25.4	21 3/4	552.5	12	17
18	19	482.6	22	558.8	25 1/4	641.4	1	25.4	23	584.2	16	18
19	20	508.0	23	584.2	26 1/2	673.1	1	25.4	24	609.6	16	19
20	21	533.4	24 1/4	616.0	27 3/4	704.9	1	25.4	25 1/4	641.4	16	20
21	22	558.8	25 3/8	644.5	29	736.6	1 1/8	28.6	26 1/2	673.1	16	21
22	23	584.2	26 3/8	669.9	30	762.0	1 1/8	28.6	27 1/2	698.5	16	22
23	24	609.6	27 3/8	695.3	31	787.4	1 1/8	28.6	28 1/2	723.9	16	23
24	25	635.0	28 1/2	723.9	32 1/2	825.5	1 1/4	31.8	29 3/4	755.7	16	24

Dimensions for Flat Ring and Full Face Applications

BS 10 Table F

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 1/16	52.4	3 3/4	95.3	9/16	14.3	2 5/8	66.7	4	1/2
3/4	1 1/16	27.0	2 5/16	58.7	4	101.6	9/16	14.3	2 7/8	73.0	4	3/4
1	1 11/32	34.1	2 3/4	69.9	4 3/4	120.7	11/16	17.5	3 7/16	87.3	4	1
1 1/4	1 11/16	42.9	3 3/16	81.0	5 1/4	133.4	11/16	17.5	3 7/8	98.4	4	1 1/4
1 1/2	1 29/32	48.4	3 7/16	87.3	5 1/2	139.7	11/16	17.5	4 1/8	104.8	4	1 1/2
2	2 3/8	60.3	4 5/16	109.5	6 1/2	165.1	11/16	17.5	5	127.0	4	2
2 1/2	3	76.2	5 1/16	128.6	7 1/4	184.2	11/16	17.5	5 3/4	146.1	8	2 1/2
3	3 1/2	88.9	5 13/16	147.6	8	203.2	11/16	17.5	6 1/2	165.1	8	3
3 1/2	4	101.6	6 5/16	160.3	8 1/2	215.9	11/16	17.5	7	177.8	8	3 1/2
4	4 1/2	114.3	6 13/16	173.0	9	228.6	11/16	17.5	7 1/2	190.5	8	4
5	5 1/2	139.7	8 3/8	212.7	11	279.4	7/8	22.2	9 1/4	235.0	8	5
6	6 5/8	168.3	9 3/8	238.1	12	304.8	7/8	22.2	10 1/4	260.4	12	6
7	7 5/8	193.7	10 5/8	269.9	13 1/4	336.6	7/8	22.2	11 1/2	292.1	12	7
8	8 5/8	219.1	11 7/8	301.6	14 1/2	368.3	7/8	22.2	12 3/4	323.9	12	8
9	9 5/8	244.5	13	330.2	16	406.4	1	25.4	14	355.6	12	9
10	10 3/4	273.1	14	355.6	17	431.8	1	25.4	15	381.0	12	10
12	12 3/4	323.9	16 1/4	412.8	19 1/4	489.0	1	25.4	17 1/4	438.2	16	12
13	14	355.6	17 3/8	441.3	20 3/4	527.1	1 1/8	28.6	18 1/2	469.9	16	13
14	15	381.0	18 3/8	466.7	21 3/4	552.5	1 1/8	28.6	19 1/2	495.3	16	14
15	16	406.4	19 3/8	492.1	22 3/4	577.9	1 1/8	28.6	20 1/2	520.7	16	15
16	17	431.8	20 5/8	523.9	24	609.6	1 1/8	28.6	21 3/4	552.5	20	16
17	18	457.2	21 7/8	555.6	25 1/4	641.4	1 1/8	28.6	23	584.2	20	17
18	19	482.6	22 3/4	577.9	26 1/2	673.1	1 1/4	31.8	24	609.6	20	18
19	20	508.0	24	609.6	27 3/4	704.9	1 1/4	31.8	25 1/4	641.4	20	19
20	21	533.4	25 1/4	641.4	29	736.6	1 1/4	31.8	26 1/2	673.1	24	20
21	22	558.8	26 1/4	666.8	30	762.0	1 1/4	31.8	27 1/2	698.5	24	21
22	23	584.2	27 1/4	692.2	31	787.4	1 1/4	31.8	28 1/2	723.9	24	22
23	24	609.6	28 3/8	720.7	32 1/2	825.5	1 3/8	34.9	29 3/4	755.7	24	23
24	25	635.0	29 3/8	746.1	33 1/2	850.9	1 3/8	34.9	30 3/4	781.1	24	24

Dimensions for Flat Ring and Full Face Applications

BS 10 Table H

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 9/16	65.1	4 1/2	114.3	11/16	17.5	3 1/4	82.6	4	1/2
3/4	1 1/16	27.0	2 9/16	65.1	4 1/2	114.3	11/16	17.5	3 1/4	82.6	4	3/4
1	1 11/32	34.1	2 3/4	69.9	4 3/4	120.7	11/16	17.5	3 7/16	87.3	4	1
1 1/4	1 11/16	42.9	3 3/16	81.0	5 1/4	133.4	11/16	17.5	3 7/8	98.4	4	1 1/4
1 1/2	1 29/32	48.4	3 7/16	87.3	5 1/2	139.7	11/16	17.5	4 1/8	104.8	4	1 1/2
2	2 3/8	60.3	4 5/16	109.5	6 1/2	165.1	11/16	17.5	5	127.0	4	2
2 1/2	3	76.2	5 1/16	128.6	7 1/4	184.2	11/16	17.5	5 3/4	146.1	8	2 1/2
3	3 1/2	88.9	5 13/16	147.6	8	203.2	11/16	17.5	6 1/2	165.1	8	3
3 1/2	4	101.6	6 5/16	160.3	8 1/2	215.9	11/16	17.5	7	177.8	8	3 1/2
4	4 1/2	114.3	6 13/16	173.0	9	228.6	11/16	17.5	7 1/2	190.5	8	4
5	5 1/2	139.7	8 3/8	212.7	11	279.4	7/8	22.2	9 1/4	235.0	8	5
6	6 5/8	168.3	9 3/8	238.1	12	304.8	7/8	22.2	10 1/4	260.4	12	6
7	7 5/8	193.7	10 5/8	269.9	13 1/4	336.6	7/8	22.2	11 1/2	292.1	12	7
8	8 5/8	219.1	11 7/8	301.6	14 1/2	368.3	7/8	22.2	12 3/4	323.9	12	8
9	9 5/8	244.5	13	330.2	16	406.4	1	25.4	14	355.6	12	9
10	10 3/4	273.1	14	355.6	17	431.8	1	25.4	15	381.0	12	10
12	12 3/4	323.9	16 1/4	412.8	19 1/4	489.0	1	25.4	17 1/4	438.2	16	12
13	14	355.6	17 3/8	441.3	20 3/4	527.1	1 1/8	28.6	18 1/2	469.9	16	13
14	15	381.0	18 3/8	466.7	21 3/4	552.5	1 1/8	28.6	19 1/2	495.3	16	14
15	16	406.4	19 3/8	492.1	22 3/4	577.9	1 1/8	28.6	20 1/2	520.7	16	15
16	17	431.8	20 5/8	523.9	24	609.6	1 1/8	28.6	21 3/4	552.5	20	16
17	18	457.2	21 7/8	555.6	25 1/4	641.4	1 1/8	28.6	23	584.2	20	17
18	19	482.6	22 3/4	577.9	26 1/2	673.1	1 1/4	31.8	24	609.6	20	18
19	20	508.0	24	609.6	27 3/4	704.9	1 1/4	31.8	25 1/4	641.4	20	19
20	21	533.4	25 1/4	641.4	29	736.6	1 1/4	31.8	26 1/2	673.1	24	20
21	22	558.8	26 1/4	666.8	30	762.0	1 1/4	31.8	27 1/2	698.5	24	21
22	23	584.2	27 1/4	692.2	31	787.4	1 1/4	31.8	28 1/2	723.9	24	22
23	24	609.6	28 3/8	720.7	32 1/2	825.5	1 3/8	34.9	29 3/4	755.7	24	23
24	25	635.0	29 3/8	746.1	33 1/2	850.9	1 3/8	34.9	30 3/4	781.1	24	24

Dimensions for Flat Ring and Full Face Applications

BS 10 Table J

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 9/16	65.1	4 1/2	114.3	11/16	17.5	3 1/4	82.6	4	1/2
3/4	1 1/16	27.0	2 9/16	65.1	4 1/2	114.3	11/16	17.5	3 1/4	82.6	4	3/4
1	1 11/32	34.1	2 3/4	69.9	4 3/4	120.7	11/16	17.5	3 7/16	87.3	4	1
1 1/4	1 11/16	42.9	3 3/16	81.0	5 1/4	133.4	11/16	17.5	3 7/8	98.4	4	1 1/4
1 1/2	1 29/32	48.4	3 7/16	87.3	5 1/2	139.7	11/16	17.5	4 1/8	104.8	4	1 1/2
2	2 3/8	60.3	4 1/8	104.8	6 1/2	165.1	7/8	22.2	5	127.0	4	2
2 1/2	3	76.2	4 7/8	123.8	7 1/4	184.2	7/8	22.2	5 3/4	146.1	8	2 1/2
3	3 1/2	88.9	5 5/8	142.9	8	203.2	7/8	22.2	6 1/2	165.1	8	3
3 1/2	4	101.6	6 1/8	155.6	8 1/2	215.9	7/8	22.2	7	177.8	8	3 1/2
4	4 1/2	114.3	6 5/8	168.3	9	228.6	7/8	22.2	7 1/2	190.5	8	4
5	5 1/2	139.7	8 1/4	209.6	11	279.4	1	25.4	9 1/4	235.0	8	5
6	6 5/8	168.3	9 1/4	235.0	12	304.8	1	25.4	10 1/4	260.4	12	6
7	7 5/8	193.7	10 1/2	266.7	13 1/4	336.6	1	25.4	11 1/2	292.1	12	7
8	8 5/8	219.1	11 3/4	298.5	14 1/2	368.3	1	25.4	12 3/4	323.9	12	8
9	9 5/8	244.5	12 7/8	327.0	16	406.4	1 1/8	28.6	14	355.6	12	9
10	10 3/4	273.1	13 7/8	352.4	17	431.8	1 1/8	28.6	15	381.0	12	10
12	12 3/4	323.9	16 1/8	409.6	19 1/4	489.0	1 1/8	28.6	17 1/4	438.2	16	12
13	14	355.6	17 1/4	438.2	20 3/4	527.1	1 1/4	31.8	18 1/2	469.9	16	13
14	15	381.0	18 1/4	463.6	21 3/4	552.5	1 1/4	31.8	19 1/2	495.3	16	14
15	16	406.4	19 1/4	489.0	22 3/4	577.9	1 1/4	31.8	20 1/2	520.7	16	15
16	17	431.8	20 1/2	520.7	24	609.6	1 1/4	31.8	21 3/4	552.5	20	16
17	18	457.2	21 3/4	552.5	25 1/4	641.4	1 1/4	31.8	23	584.2	20	17
18	19	482.6	22 5/8	574.7	26 1/2	673.1	1 3/8	34.9	24	609.6	20	18
19	20	508.0	23 7/8	606.4	27 3/4	704.9	1 3/8	34.9	25 1/4	641.4	20	19
20	21	533.4	25 1/8	638.2	29	736.6	1 3/8	34.9	26 1/2	673.1	24	20
21	22	558.8	26 1/8	663.6	30	762.0	1 3/8	34.9	27 1/2	698.5	24	21
22	23	584.2	27 1/8	689.0	31	787.4	1 3/8	34.9	28 1/2	723.9	24	22
23	24	609.6	28 1/4	717.6	32 1/2	825.5	1 1/2	38.1	29 3/4	755.7	24	23
24	25	635.0	29 1/4	743.0	33 1/2	850.9	1 1/2	38.1	30 3/4	781.1	24	24

Dimensions for Flat Ring and Full Face Applications

BS 10 Table R

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 9/16	65.1	4 1/2	114.3	11/16	17.5	3 1/4	82.6	4	1/2
3/4	1 1/16	27.0	2 9/16	65.1	4 1/2	114.3	11/16	17.5	3 1/4	82.6	4	3/4
1	1 11/32	34.1	3 1/16	77.8	5	127.0	11/16	17.5	3 3/4	95.3	4	1
1 1/4	1 11/16	42.9	3 3/16	81.0	5 1/4	133.4	11/16	17.5	3 7/8	98.4	4	1 1/4
1 1/2	1 29/32	48.4	3 5/8	92.1	6	152.4	7/8	22.2	4 1/2	114.3	4	1 1/2
2	2 3/8	60.3	4 5/16	109.5	6 1/2	165.1	11/16	17.5	5	127.0	8	2
2 1/2	3	76.2	4 7/8	123.8	7 1/4	184.2	7/8	22.2	5 3/4	146.1	8	2 1/2
3	3 1/2	88.9	5 5/8	142.9	8	203.2	7/8	22.2	6 1/2	165.1	8	3
3 1/2	4	101.6	6 1/4	158.8	9	228.6	1	25.4	7 1/4	184.2	8	3 1/2
4	4 1/2	114.3	6 3/4	171.5	9 1/2	241.3	1	25.4	7 3/4	196.9	8	4
5	5 1/2	139.7	8 1/4	209.6	11	279.4	1	25.4	9 1/4	235.0	12	5
6	6 5/8	168.3	9 1/4	235.0	12	304.8	1	25.4	10 1/4	260.4	12	6
7	7 1/2	190.5	10 3/8	263.5	13 1/2	342.9	1 1/8	28.6	11 1/2	292.1	12	7
8	8 1/2	215.9	11 3/8	288.9	14 1/2	368.3	1 1/8	28.6	12 1/2	317.5	12	8
9	9 1/2	241.3	12 7/8	327.0	16	406.4	1 1/8	28.6	14	355.6	16	9
10	10 5/8	269.9	14 1/8	358.8	17	431.8	1 1/8	28.6	15 1/4	387.4	16	10
12	12 5/8	320.7	16 3/4	425.5	19 1/4	489.0	1 1/4	31.8	18	457.2	16	12
13	13 5/8	346.1	18 1/8	460.4	21 1/2	546.1	1 3/8	34.9	19 1/2	495.3	16	13
14	14 5/8	371.5	19 3/8	492.1	23	584.2	1 3/8	34.9	20 3/4	527.1	16	14
15	15 5/8	396.9	20 3/8	517.5	24	609.6	1 3/8	34.9	21 3/4	552.5	20	15
16	17	431.8	21 5/8	549.3	25 1/4	641.4	1 3/8	34.9	23	584.2	20	16
17	18	457.2	22 5/8	574.7	26 1/2	673.1	1 3/8	34.9	24	609.6	20	17
18	19	482.6	25	635.0	29	736.6	1 1/2	38.1	26 1/2	673.1	20	18
20	21	533.4	27 1/8	689.0	31 3/4	806.5	1 5/8	41.3	28 3/4	730.3	20	20
22	23	584.2	29 5/8	752.5	35 1/4	895.4	2 1/8	54.0	31 3/4	806.5	20	22

Dimensions for Flat Ring and Full Face Applications

BS 10 Table S

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	2 5/8	66.7	5	127.0	7/8	22.2	3 1/2	88.9	4	1/2
3/4	1 1/16	27.0	2 5/8	66.7	5	127.0	7/8	22.2	3 1/2	88.9	4	3/4
1	1 11/32	34.1	3 1/8	79.4	5 1/2	139.7	7/8	22.2	4	101.6	4	1
1 1/4	1 11/16	42.9	3 3/8	85.7	5 3/4	146.1	7/8	22.2	4 1/4	108.0	4	1 1/4
1 1/2	1 29/32	48.4	3 7/8	98.4	6 1/4	158.8	7/8	22.2	4 3/4	120.7	4	1 1/2
2	2 3/8	60.3	4 3/8	111.1	6 3/4	171.5	7/8	22.2	5 1/4	133.4	8	2
2 1/2	3	76.2	4 7/8	123.8	7 1/4	184.2	7/8	22.2	5 3/4	146.1	8	2 1/2
3	3 1/2	88.9	5 1/2	139.7	8	203.2	1	25.4	6 1/2	165.1	8	3
3 1/2	4	101.6	6 1/4	158.8	9 1/4	235.0	1	25.4	7 1/4	184.2	8	3 1/2
4	4 1/2	114.3	6 7/8	174.6	9 3/4	247.7	1 1/8	28.6	8	203.2	8	4
4 1/2	5	127.0	7 3/8	187.3	10 1/2		1 1/8	28.6	8 1/2	215.9	8	4 1/2
5	5 1/2	139.7	8 1/4	209.6	11 1/4	266.7	1	25.4	9 1/4	235.0	12	5
6	6 5/8	168.3	9 5/8	244.5	12 3/4	285.8	1 1/8	28.6	10 3/4	273.1	12	6
7	7 1/2	190.5	11 1/4	285.8	14 3/4	323.9	1 1/4	31.8	12 1/2	317.5	12	7
8	8 1/2	215.9	12 5/8	320.7	16 1/4	374.7	1 3/8	34.9	14	355.6	12	8
9	9 1/2	241.3	14	355.6	17 1/4	438.2	1 1/4	31.8	15 1/4	387.4	16	9
10	10 5/8	269.9	15 3/8	390.5	19	482.6	1 3/8	34.9	16 3/4	425.5	16	10
11	11 5/8	295.3	17	431.8	21	533.4	1 1/2	38.1	18 1/2	469.9	16	11
12	12 5/8	320.7	18 3/8	466.7	22 3/4	577.9	1 5/8	41.3	20	508.0	16	12
13	13 5/8	346.1	19 5/8	498.5	24	609.6	1 5/8	41.3	21 1/4	539.8	16	13
14	14 5/8	371.5	21 1/8	536.6	25 1/2	647.7	1 5/8	41.3	22 3/4	577.9	20	14
15	15 5/8	396.9	22 3/4	577.9	27 1/2	698.5	1 3/4	44.5	24 1/2	622.3	20	15
16	17	431.8	24 1/8	612.8	29 1/4	743.0	1 7/8	-	26	660.4	20	16

Dimensions for Flat Ring and Full Face Applications

BS 10 Table T

Nominal Pipe Size	Gasket ID		IBC Gasket OD		Full Face							Nominal Pipe Size
					Full Face Gasket OD		Diameter of Bolt Holes		Bolt P.C.D.		Number of Bolt Holes	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
1/2	27/32	21.4	3 1/8	79.4	5 1/2	139.7	7/8	22.2	4	101.6	4	1/2
3/4	1 1/16	27.0	3 1/8	79.4	5 1/2	139.7	7/8	22.2	4	101.6	4	3/4
1	1 11/32	34.1	3 3/8	85.7	5 3/4	146.1	7/8	22.2	4 1/4	108.0	4	1
1 1/4	1 11/16	42.9	3 3/4	95.3	6 1/4	158.8	1	25.4	4 3/4	120.7	4	1 1/4
1 1/2	1 29/32	48.4	4 3/8	111.1	6 3/4	171.5	7/8	22.2	5 1/4	133.4	8	1 1/2
2	2 3/8	60.3	4 7/8	123.8	7 1/4	184.2	7/8	22.2	5 3/4	146.1	8	2
2 1/2	3	76.2	5 1/2	139.7	8	203.2	1	25.4	6 1/2	165.1	8	2 1/2
3	3 1/2	88.9	6 3/8	161.9	9 1/4	235.0	1 1/8	28.6	7 1/2	190.5	8	3
3 1/2	4	101.6	7 1/4	184.2	10 1/2	266.7	1 1/4	31.8	8 1/2	215.9	8	3 1/2
4	4 1/2	114.3	8	203.2	11 1/4	285.8	1 1/4	31.8	9 1/4	235.0	8	4
4 1/2	5	127.0	8 7/8	225.4	11 3/4		1 1/8	28.6	10	254.0	12	4 1/2
5	5 1/2	139.7	9 1/2	241.3	12 3/4	298.5	1 1/4	31.8	10 3/4	273.1	12	5
6	6 5/8	168.3	11 1/8	282.6	14 3/4	323.9	1 3/8	34.9	12 1/2	317.5	12	6
7	7 1/2	190.5	13	330.2	17	374.7	1 1/2	38.1	14 1/2	368.3	12	7
8	8 1/2	215.9	14 3/8	365.1	18 3/4	431.8	1 5/8	41.3	16	406.4	12	8
9	9 1/2	241.3	16	406.4	20	508.0	1 1/2	38.1	17 1/2	444.5	16	9
10	10 5/8	269.9	17 5/8	447.7	22	558.8	1 5/8	41.3	19 1/4	489.0	16	10
11	11 5/8	295.3	19 1/8	485.8	24 1/4	616.0	1 7/8	47.6	21	533.4	16	11
12	12 5/8	320.7	20 5/8	523.9	25 3/4	654.1	1 7/8	47.6	22 1/2	571.5	16	12
13	13 5/8	346.1	21 7/8	555.6	27 3/4	704.9	2 1/8	54.0	24	609.6	16	13