

## Non-Metallic Gasket Dimensions for Pipe Flanges

Soft material gaskets are dimensionally sized per ASME B16.21 for use with ASME B16.5 flanges. Non-metallic gaskets are used in Raised Face (RF), Flat Face (FF), Welding Neck (WN), and Slip On (SO) flanges. Typically, the outside diameter dimension is the bolt circle diameter minus one bolt diameter unless a full face gasket is requested.

### ASME B16.21 Gasket Tolerances:

Nominal Pipe Size (NPS) 12 and smaller Outside Diameter (OD): +0.0", -1/16" (+0.0, -1.5 mm)

Nominal Pipe Size (NPS) 14 and Larger Outside Diameter (OD): +0.0", -1/8" (+0.0, -3.0 mm)

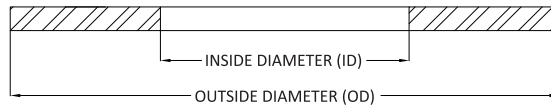
Nominal Pipe Size (NPS) 12 and smaller Inside Diameter (ID):  $\pm 1/16"$  ( $\pm 1.5$  mm)

Nominal Pipe Size (NPS) 14 and Larger Inside Diameter (ID):  $\pm 1/8"$  ( $\pm 3.0$  mm)

Bolt Circle Diameter:  $\pm 1/16"$  ( $\pm 1.5$  mm)

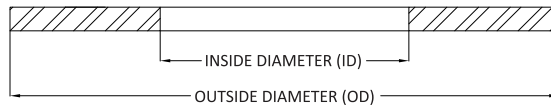
Center to center of adjacent bolt holes:  $\pm 1/32"$  ( $\pm 1.0$  mm)

## Dimensions for Ring Gaskets per ASME B16.21 to Suit ASME B16.5 Flanges



Nominal Pipe Size (NPS)	Class 150			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	1.88	48
3/4	1.06	27	2.25	57
1	1.31	33	2.62	67
1 1/4	1.66	42	3.00	76
1 1/2	1.91	49	3.38	86
2	2.38	60	4.12	105
2 1/2	2.88	73	4.88	124
3	3.50	89	5.38	137
3 1/2	4.00	102	6.38	162
4	4.50	114	6.88	175
5	5.56	141	7.75	197
6	6.62	168	8.75	222
8	8.62	219	11.00	279
10	10.75	273	13.38	340
12	12.75	324	16.13	410
14	14.00	356	17.75	451
16	16.00	406	20.25	514
18	18.00	457	21.62	549
20	20.00	508	23.88	607
24	24.00	610	28.25	718

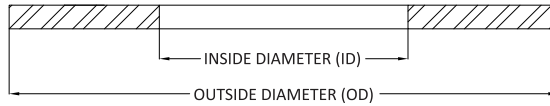
## Dimensions for Ring Gaskets per ASME B16.21 to Suit ASME B16.5 Flanges



Class 300				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	2.12	54
3/4	1.06	27	2.62	67
1	1.31	33	2.88	73
1 1/4	1.66	42	3.25	83
1 1/2	1.91	49	3.75	95
2	2.38	60	4.38	111
2 1/2	2.88	73	5.12	130
3	3.50	89	5.88	149
3 1/2	4.00	102	6.50	165
4	4.50	114	7.12	181
5	5.56	141	8.50	216
6	6.62	168	9.88	251
8	8.62	219	12.12	308
10	10.75	273	14.25	362
12	12.75	324	16.62	422
14	14.00	356	19.12	486
16	16.00	406	21.25	540
18	18.00	457	23.50	597
20	20.00	508	25.75	654
24	24.00	610	30.50	775

Class 400				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	2.12	54
3/4	1.06	27	2.62	67
1	1.31	33	2.88	73
1 1/4	1.66	42	3.25	83
1 1/2	1.91	49	3.75	95
2	2.38	60	4.38	111
2 1/2	2.88	73	5.12	130
3	3.50	89	5.88	149
3 1/2	4.00	102	6.38	162
4	4.50	114	7.00	178
5	5.56	141	8.38	213
6	6.62	168	9.75	248
8	8.62	219	12.00	305
10	10.75	273	14.12	359
12	12.75	324	16.50	419
14	14.00	356	19.00	483
16	16.00	406	21.12	536
18	18.00	457	23.38	594
20	20.00	508	25.50	648
24	24.00	610	30.25	768

## Dimensions for Ring Gaskets per ASME B16.21 to Suit ASME B16.5 Flanges



Nominal Pipe Size (NPS)	Class 600			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	2.12	54
3/4	1.06	27	2.62	67
1	1.31	33	2.88	73
1 1/4	1.66	42	3.25	83
1 1/2	1.91	49	3.75	95
2	2.38	60	4.38	111
2 1/2	2.88	73	5.12	130
3	3.50	89	5.88	149
3 1/2	4.00	102	6.38	162
4	4.50	114	7.62	194
5	5.56	141	9.50	241
6	6.62	168	10.50	267
8	8.62	219	12.62	321
10	10.75	273	15.75	400
12	12.75	324	18.00	457
14	14.00	356	19.38	492
16	16.00	406	22.25	565
18	18.00	457	24.12	613
20	20.00	508	26.88	683
24	24.00	610	31.12	791

## Dimensions for Full Face Gaskets to Suit ASME B16.5 Flanges

Nominal Pipe Size (NPS)	Class 150							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.50	89	4	0.62	2.38	60.3
3/4	1.06	27	3.88	99	4	0.62	2.75	69.9
1	1.31	33	4.25	108	4	0.62	3.12	79.4
1 1/4	1.66	42	4.63	118	4	0.62	3.50	88.9
1 1/2	1.91	49	5.00	127	4	0.62	3.88	98.4
2	2.38	60	6.00	152	4	0.75	4.75	120.7
2 1/2	2.88	73	7.00	178	4	0.75	5.50	139.7
3	3.50	89	7.50	191	4	0.75	6.00	152.4
3 1/2	4.00	102	8.50	216	8	0.75	7.00	177.8
4	4.50	114	9.00	229	8	0.75	7.50	190.5
5	5.56	141	10.00	254	8	0.88	8.50	215.9
6	6.62	168	11.00	279	8	0.88	9.50	241.3
8	8.62	219	13.50	343	8	0.88	11.75	298.5
10	10.75	273	16.00	406	12	1.00	14.25	362.0
12	12.75	324	19.00	483	12	1.00	17.00	431.8
14	14.00	356	21.00	533	12	1.12	18.75	476.3
16	16.00	406	23.50	597	16	1.12	21.25	539.8
18	18.00	457	25.00	635	16	1.25	22.75	577.9
20	20.00	508	27.50	699	20	1.25	25.00	635.0
24	24.00	610	32.00	813	20	1.38	29.50	749.3

Nominal Pipe Size (NPS)	Class 300							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.75	95	4	0.63	2.63	66.8
3/4	1.06	27	4.62	117	4	0.75	3.25	82.6
1	1.31	33	4.88	124	4	0.75	3.50	88.9
1 1/4	1.66	42	5.25	133	4	0.75	3.88	98.4
1 1/2	1.91	49	6.12	155	4	0.88	4.50	114.3
2	2.38	60	6.50	165	8	0.75	5.00	127.0
2 1/2	2.88	73	7.50	191	8	0.88	5.88	149.2
3	3.50	89	8.25	210	8	0.88	6.63	168.3
3 1/2	4.00	102	9.00	229	8	0.88	7.25	184.2
4	4.50	114	10.00	254	8	0.88	7.88	200.0
5	5.56	141	11.00	279	8	0.88	9.25	235.0
6	6.62	168	12.50	318	12	0.88	10.63	269.9
8	8.62	219	15.00	381	12	1.00	13.00	330.2
10	10.75	273	17.50	445	16	1.13	15.25	387.4
12	12.75	324	20.50	521	16	1.25	17.75	450.9
14	14.00	356	23.00	584	20	1.25	20.25	514.4
16	16.00	406	25.50	648	20	1.38	22.50	571.5
18	18.00	457	28.00	711	24	1.38	24.75	628.7
20	20.00	508	30.50	775	24	1.38	27.00	685.8
24	24.00	610	36.00	914	24	1.63	32.00	812.8

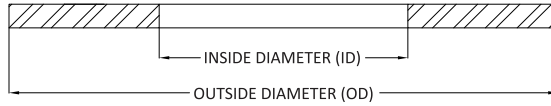
## Dimensions for Full Face Gaskets to Suit ASME B16.5 Flanges

Class 400								
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.75	95	4	0.63	2.62	66.5
3/4	1.06	27	4.63	117	4	0.75	3.25	82.6
1	1.31	33	4.88	124	4	0.75	3.50	88.9
1 1/4	1.66	42	5.25	133	4	0.75	3.88	98.4
1 1/2	1.91	49	6.13	156	4	0.88	4.50	114.3
2	2.38	60	6.50	165	8	0.75	5.00	127.0
2 1/2	2.88	73	7.50	191	8	0.88	5.88	149.2
3	3.50	89	8.25	210	8	0.88	6.63	168.3
3 1/2	4.00	102	9.00	229	8	1.00	7.25	184.2
4	4.50	114	10.00	254	8	1.00	7.88	200.0
5	5.56	141	11.00	279	8	1.00	9.25	235.0
6	6.62	168	12.50	318	12	1.00	10.63	269.9
8	8.62	219	15.00	381	12	1.13	13.00	330.2
10	10.75	273	17.50	445	16	1.25	15.25	387.4
12	12.75	324	20.50	521	16	1.38	17.75	450.9
14	14.00	356	23.00	584	20	1.38	20.25	514.4
16	16.00	406	25.50	648	20	1.50	22.50	571.5
18	18.00	457	28.00	711	24	1.50	24.75	628.7
20	20.00	508	30.50	775	24	1.63	27.00	685.8
24	24.00	610	36.00	914	24	1.88	32.00	812.8

Class 600								
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.75	95	4	0.63	2.63	66.8
3/4	1.06	27	4.63	117	4	0.75	3.25	82.6
1	1.31	33	4.88	124	4	0.75	3.50	88.9
1 1/4	1.66	42	5.25	133	4	0.75	3.88	98.4
1 1/2	1.91	49	6.13	156	4	0.88	4.50	114.3
2	2.38	60	6.50	165	8	0.75	5.00	127.0
2 1/2	2.88	73	7.50	191	8	0.88	5.88	149.2
3	3.50	89	8.25	210	8	0.88	6.63	168.3
3 1/2	4.00	102	9.00	229	8	1.00	7.25	184.2
4	4.50	114	10.75	273	8	1.00	8.50	215.9
5	5.56	141	13.00	330	8	1.13	10.50	266.7
6	6.62	168	14.00	356	12	1.13	11.50	292.1
8	8.62	219	16.50	419	12	1.25	13.75	349.3
10	10.75	273	20.00	508	16	1.38	17.00	431.8
12	12.75	324	22.00	559	20	1.38	19.25	489.0
14	14.00	356	23.75	603	20	1.50	20.75	527.1
16	16.00	406	27.00	686	20	1.63	23.75	603.3
18	18.00	457	29.25	743	20	1.75	25.75	654.1
20	20.00	508	32.00	813	24	1.75	28.50	723.9
24	24.00	610	37.00	940	24	2.00	33.00	838.2

GASKET SELECTION

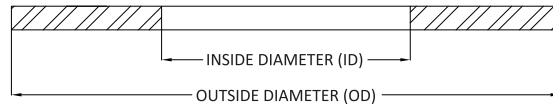
## Dimensions for Ring Gaskets per ASME B16.21 to Suit ASME B16.47 Series A Flanges



Class 150				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	30.50	775
28	28.00	711	32.75	832
30	30.00	762	34.75	883
32	32.00	813	37.00	940
34	34.00	864	39.00	991
36	36.00	914	41.25	1048
38	38.00	965	43.75	1111
40	40.00	1016	45.75	1162
42	42.00	1067	48.00	1219
44	44.00	1118	50.25	1276
46	46.00	1168	52.25	1327
48	48.00	1219	54.50	1384
50	50.00	1270	56.50	1435
52	52.00	1321	58.75	1492
54	54.00	1372	61.00	1549
56	56.00	1422	63.25	1607
58	58.00	1473	65.50	1664
60	60.00	1524	67.50	1715

Class 300				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	32.88	835
28	28.00	711	35.38	899
30	30.00	762	37.50	953
32	32.00	813	39.62	1006
34	34.00	864	41.62	1057
36	36.00	914	44.00	1118
38	38.00	965	41.50	1054
40	40.00	1016	43.88	1115
42	42.00	1067	45.88	1165
44	44.00	1118	48.00	1219
46	46.00	1168	50.12	1273
48	48.00	1219	52.12	1324
50	50.00	1270	54.25	1378
52	52.00	1321	56.25	1429
54	54.00	1372	58.75	1492
56	56.00	1422	60.75	1543
58	58.00	1473	62.75	1594
60	60.00	1524	64.75	1645

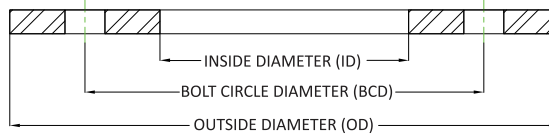
## Dimensions for Ring Gaskets per ASME B16.21 to Suit ASME B16.47 Series A Flanges



Class 400				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	32.75	832
28	28.00	711	35.12	892
30	30.00	762	37.25	946
32	32.00	813	39.50	1003
34	34.00	864	41.50	1054
36	36.00	914	44.00	1118
38	38.00	965	42.25	1073
40	40.00	1016	44.38	1127
42	42.00	1067	46.38	1178
44	44.00	1118	48.50	1232
46	46.00	1168	50.75	1289
48	48.00	1219	53.00	1346
50	50.00	1270	55.25	1403
52	52.00	1321	57.26	1454
54	54.00	1372	59.75	1518
56	56.00	1422	61.75	1568
58	58.00	1473	63.75	1619
60	60.00	1524	66.25	1683

Class 600				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	34.12	867
28	28.00	711	36.00	914
30	30.00	762	38.25	972
32	32.00	813	40.25	1022
34	34.00	864	42.25	1073
36	36.00	914	44.50	1130
38	38.00	965	43.50	1105
40	40.00	1016	45.50	1156
42	42.00	1067	48.00	1219
44	44.00	1118	50.00	1270
46	46.00	1168	52.26	1327
48	48.00	1219	54.75	1391
50	50.00	1270	57.00	1448
52	52.00	1321	59.00	1499
54	54.00	1372	61.25	1556
56	56.00	1422	63.50	1613
58	58.00	1473	65.50	1664
60	60.00	1524	67.75	1721

## Dimensions for Full Face Gaskets to Suit ASME B16.47 Series A Flanges

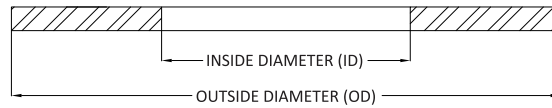


Class 150								
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	660	34.25	870	24	1.38	31.75	806.5
28	28.00	711	36.50	927	28	1.38	34.00	863.6
30	30.00	762	38.75	984	28	1.38	36.00	914.4
32	32.00	813	41.75	1060	28	1.63	38.50	977.9
34	34.00	864	43.75	1111	32	1.63	40.50	1028.7
36	36.00	914	46.00	1168	32	1.63	42.75	1085.9
38	38.00	965	48.75	1238	32	1.63	45.25	1149.4
40	40.00	1016	50.75	1289	36	1.63	47.25	1200.2
42	42.00	1067	53.00	1346	36	1.63	49.50	1257.3
44	44.00	1118	55.25	1403	40	1.63	51.75	1314.5
46	46.00	1168	57.25	1454	40	1.63	53.75	1365.3
48	48.00	1219	59.50	1511	44	1.63	56.00	1422.4
50	50.00	1270	61.75	1568	44	1.88	58.25	1479.6
52	52.00	1321	64.00	1626	44	1.88	60.50	1536.7
54	54.00	1372	66.25	1683	44	1.88	62.75	1593.9
56	56.00	1422	68.75	1746	48	1.88	65.00	1651.0
58	58.00	1473	71.00	1803	48	1.88	67.25	1708.2
60	60.00	1524	73.00	1854	52	1.88	69.25	1759.0

Class 300								
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	662	38.25	972	28	1.75	34.50	876.3
28	28.00	713	40.75	1035	28	1.75	37.00	939.8
30	30.00	764	43.00	1092	28	1.88	39.25	997.0
32	32.00	815	45.25	1149	28	2.00	41.50	1054.1
34	34.00	866	47.50	1207	28	2.00	43.50	1104.9
36	36.00	917	50.00	1270	32	2.13	46.00	1168.4
38	38.00	968	46.00	1168	32	1.63	43.00	1092.2
40	40.00	1019	48.75	1238	32	1.75	45.50	1155.7
42	42.00	1070	50.75	1289	32	1.75	47.50	1206.5
44	44.00	1121	53.25	1353	32	1.88	49.75	1263.7
46	46.00	1172	55.75	1416	28	2.00	52.00	1320.8
48	48.00	1223	57.75	1467	32	2.00	54.00	1371.6
50	50.00	1274	60.25	1530	32	2.13	56.25	1428.8
52	52.00	1324	62.25	1581	32	2.13	58.25	1479.6
54	54.00	1375	65.25	1657	28	2.38	61.00	1549.4
56	56.00	1426	67.25	1708	28	2.38	63.00	1600.2
58	58.00	1477	69.25	1759	32	2.38	65.00	1651.0
60	60.00	1528	71.25	1810	32	2.38	67.00	1701.8



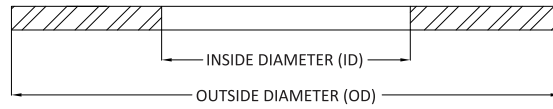
## Dimensions for Ring Gaskets per ASME B16.21 to Suit ASME B16.47 Series B Flanges



Nominal Pipe Size (NPS)	Class 150			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	28.56	725
28	28.00	711	30.56	776
30	30.00	762	32.56	827
32	32.00	813	34.69	881
34	34.00	864	36.81	935
36	36.00	914	38.88	988
38	38.00	965	41.12	1044
40	40.00	1016	43.12	1095
42	42.00	1067	45.12	1146
44	44.00	1118	47.12	1197
46	46.00	1168	49.44	1256
48	48.00	1219	51.44	1307
50	50.00	1270	53.44	1357
52	52.00	1321	55.44	1408
54	54.00	1372	57.62	1464
56	56.00	1422	59.62	1514
58	58.00	1473	62.19	1580
60	60.00	1524	64.19	1630

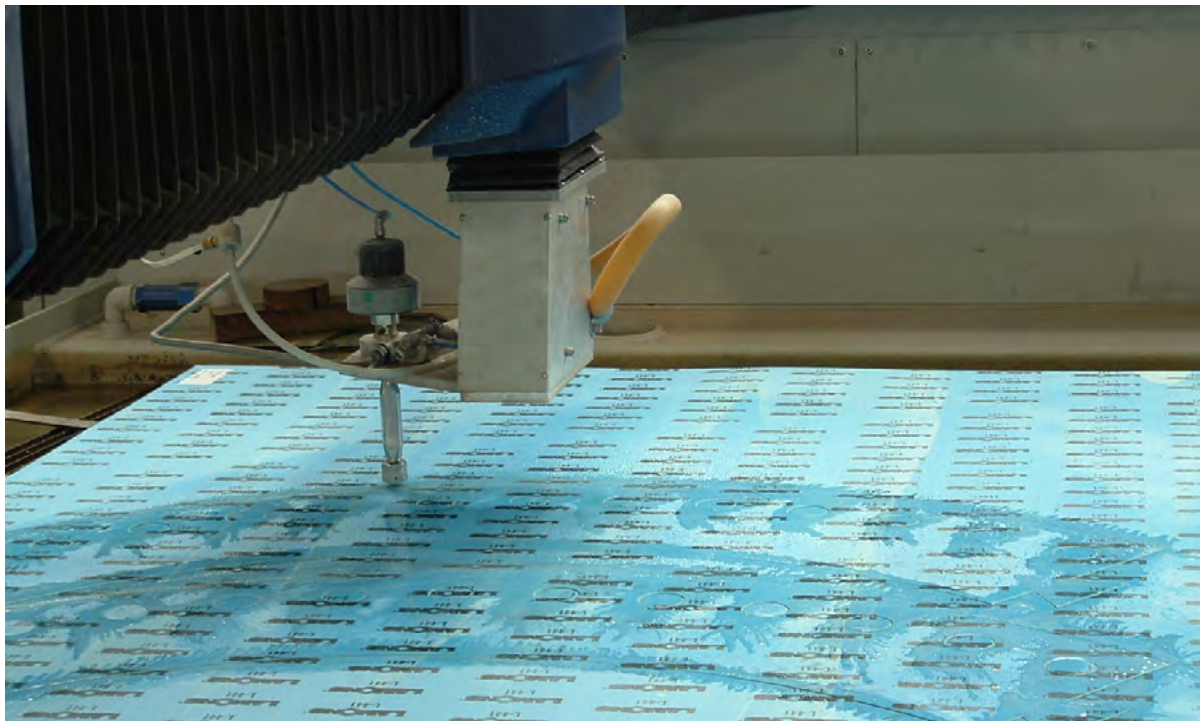
Nominal Pipe Size (NPS)	Class 300			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	30.38	772
28	28.00	711	32.50	826
30	30.00	762	34.88	886
32	32.00	813	37.00	940
34	34.00	864	39.12	994
36	36.00	914	41.25	1048
38	38.00	965	43.25	1099
40	40.00	1016	45.25	1149
42	42.00	1067	47.25	1200
44	44.00	1118	49.25	1251
46	46.00	1168	51.88	1318
48	48.00	1219	53.88	1369
50	50.00	1270	55.88	1419
52	52.00	1321	57.88	1470
54	54.00	1372	60.25	1530
56	56.00	1422	62.75	1594
58	58.00	1473	65.19	1656
60	60.00	1524	67.12	1705

## Dimensions for Flat Ring Gaskets per ASME B16.21 to Suit ASME B16.47 Series B Flanges

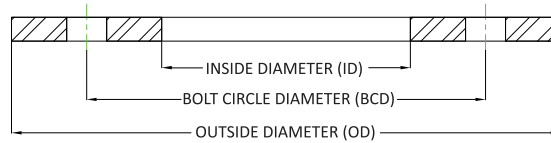


Class 400				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	29.38	746
28	28.00	711	31.50	800
30	30.00	762	33.75	857
32	32.00	813	35.88	911
34	34.00	864	37.88	962
36	36.00	914	40.25	1022

Class 600				
Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	30.12	765
28	28.00	711	32.25	819
30	30.00	762	34.62	879
32	32.00	813	36.75	933
34	34.00	864	39.25	997
36	36.00	914	41.25	1048



## Dimensions for Full Face Gaskets to Suit ASME B16.47 Series B Flanges



Nominal Pipe Size (NPS)	Class 150							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	660	30.94	786	36	0.88	29.31	744.5
28	28.00	711	32.94	837	40	0.88	31.31	795.3
30	30.00	762	34.94	887	44	0.88	33.31	846.1
32	32.00	813	37.06	941	48	0.88	35.44	900.2
34	34.00	864	39.56	1005	40	1.00	37.69	957.3
36	36.00	914	41.63	1057	44	1.00	39.75	1009.7
38	38.00	965	44.25	1124	40	1.13	42.13	1070.1
40	40.00	1016	46.25	1175	44	1.13	44.13	1120.9
42	42.00	1067	48.25	1226	48	1.13	46.13	1171.7
44	44.00	1118	50.25	1276	52	1.13	48.13	1222.5
46	46.00	1168	52.81	1341	40	1.25	50.56	1284.2
48	48.00	1219	54.81	1392	44	1.25	52.56	1335.0
50	50.00	1270	56.81	1443	48	1.25	54.56	1385.8
52	52.00	1321	58.81	1494	52	1.25	56.56	1436.6
54	54.00	1372	61.00	1549	56	1.25	58.75	1492.3
56	56.00	1422	63.00	1600	60	1.25	60.75	1543.1
58	58.00	1473	65.94	1675	48	1.38	63.44	1611.4
60	60.00	1524	67.94	1726	52	1.38	65.44	1662.2

Nominal Pipe Size (NPS)	Class 300							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	660	34.13	867	32	1.38	31.63	803.4
28	28.00	711	36.25	921	36	1.38	33.75	857.3
30	30.00	762	39.00	991	36	1.50	36.25	920.8
32	32.00	813	41.50	1054	32	1.63	38.50	977.9
34	34.00	864	43.63	1108	36	1.63	40.63	1032.0
36	36.00	914	46.13	1172	32	1.75	42.88	1089.2
38	38.00	965	48.13	1223	36	1.75	44.88	1140.0
40	40.00	1016	50.13	1273	40	1.75	46.88	1190.8
42	42.00	1067	52.50	1334	36	1.88	49.00	1244.6
44	44.00	1118	54.50	1384	40	1.88	51.00	1295.4
46	46.00	1168	57.50	1461	36	2.00	53.75	1365.3
48	48.00	1219	59.50	1511	40	2.00	55.75	1416.1
50	50.00	1270	61.50	1562	44	2.00	57.75	1466.9
52	52.00	1321	63.50	1613	48	2.00	59.75	1517.7
54	54.00	1372	65.88	1673	48	2.00	62.13	1578.1
56	56.00	1422	69.50	1765	36	2.38	65.00	1651.0
58	58.00	1473	71.94	1827	40	2.38	67.44	1713.0
60	60.00	1524	73.94	1878	40	2.38	69.44	1763.8