



Non-metallic Gaskets

**[3] FLAT RING GASKET DIMENSIONS TO ASME B16.21:2016
USED WITH ASME/ANSI B16.5 RAISED FACE FLANGES**

NOMINAL SIZE		ID	OD				
DN mm	NPS in.		150 lbs	300 lbs	400 lbs	600 lbs	900 lbs
15	½	21	48	54	54	54	64
20	¾	27	57	67	67	67	70
25	1	33	67	73	73	73	79
32	1¼	42	76	83	83	83	89
40	1½	48	86	95	95	95	98
50	2	60	105	111	111	111	143
65	2½	73	124	130	130	130	165
80	3	89	137	149	149	149	168
90	3½	102	162	165	162	162	-
100	4	114	175	181	178	194	206
125	5	141	197	216	213	241	248
150	6	168	222	251	248	267	289
200	8	219	279	308	305	321	359
250	10	273	340	362	359	400	435
300	12	324	410	422	419	457	498
350	14	356	451	486	483	492	521
400	16	406	514	540	537	565	575
450	18	457	549	597	594	613	638
500	20	508	606	654	648	683	699
600	24	610	718	775	768	791	838

■ = For information only

Dimensions are in millimeters (mm)

**[3] FLAT RING GASKET DIMENSIONS TO ASME B16.21:2016
USED WITH ASME B16.47 SERIES-A RAISED FACE FLANGES**

NOMINAL SIZE		ID	OD			
DN mm	NPS in.		150 lbs	300 lbs	400 lbs	600 lbs
550 ¹⁾	22 ¹⁾	559	660	705	702	733
650	26	660	775	835	832	867
700	28	711	832	899	892	914
750	30	762	883	953	946	972
800	32	813	940	1006	1003	1022
850	34	864	991	1057	1054	1073
900	36	914	1048	1118	1118	1130
950	38	965	1111	1054	1073	1105
1000	40	1016	1162	1114	1127	1156
1050	42	1067	1219	1165	1178	1219
1100	44	1118	1276	1219	1232	1270
1150	46	1168	1327	1273	1289	1327
1200	48	1219	1384	1324	1346	1391
1250	50	1270	1435	1378	1403	1448
1300	52	1321	1492	1429	1454	1499
1350	54	1372	1549	1492	1518	1556
1400	56	1422	1607	1543	1568	1613
1450	58	1473	1664	1594	1619	1664
1500	60	1524	1715	1645	1683	1721

NOTE:

1) NPS 22 for reference only. Size not listed in ASME B16.47

■ = For information only

Dimensions are in millimeters (mm)

**[3] FLAT RING GASKET DIMENSIONS TO ASME B16.21:2016
USED WITH ASME B16.47 SERIES-B RAISED FACE FLANGES**

NOMINAL SIZE		ID	OD				
DN mm	NPS in.		75 lbs	150 lbs	300 lbs	400 lbs	600 lbs
650	26	660	708	725	772	746	765
700	28	711	759	776	826	800	819
750	30	762	810	827	886	857	879
800	32	813	860	881	940	911	933
850	34	864	911	935	994	962	997
900	36	914	973	987	1048	1022	1048
950	38	965	1024	1045	1099	-	-
1000	40	1016	1075	1095	1149	-	-
1050	42	1067	1126	1146	1200	-	-
1100	44	1118	1181	1197	1251	-	-
1150	46	1168	1232	1256	1318	-	-
1200	48	1219	1283	1307	1368	-	-
1250	50	1270	1334	1357	1419	-	-
1300	52	1321	1387	1408	1470	-	-
1350	54	1372	1438	1464	1530	-	-
1400	56	1422	1495	1514	1594	-	-
1450	58	1473	1546	1580	1656	-	-
1500	60	1524	1597	1630	1705	-	-

■ = For information only

Dimensions are in millimeters (mm)

**[3] FULL FACE GASKET DIMENSIONS TO ASME B16.21:2016
USED WITH ASME/ANSI B16.5 FLAT FACE FLANGES**

NOMINAL SIZE		ID	150 lbs				* 300 lbs			
DN mm	NPS in.		OD	BCD	HOLE DIA.	No. of bolt holes	OD	BCD	HOLE DIA.	No. of bolt
15	½	21	89	60.3	15.9	4	95	67	16	4
20	¾	27	98	69.9	15.9	4	117	83	19	4
25	1	33	108	79.4	15.9	4	123	89	19	4
32	1¼	42	117	88.9	15.9	4	133	98	19	4
40	1½	48	127	98.4	15.9	4	155	114	22	4
50	2	60	152	120.7	19.1	4	165	127	19	8
65	2½	73	178	139.7	19.1	4	190	149	22	8
80	3	89	191	152.4	19.1	4	209	168	22	8
90	3½	102	216	177.8	19.1	8	228	184	22	8
100	4	114	229	190.5	19.1	8	254	200	22	8
125	5	141	254	215.9	22.3	8	279	235	22	8
150	6	168	279	241.3	22.3	8	317	270	22	12
200	8	219	343	298.5	22.3	8	381	330	25	12
250	10	273	406	362.0	25.4	12	444	387	29	16
300	12	324	483	431.8	25.4	12	520	451	32	16
350	14	356	533	476.3	28.6	12	584	514	32	20
400	16	406	597	539.8	28.6	16	647	572	35	20
450	18	457	635	577.9	31.8	16	711	629	35	24
500	20	508	699	635.0	31.8	20	774	686	35	24
600	24	610	813	749.3	34.9	20	914	813	41	24

■ = For information only

Dimensions are in millimeters (mm)

* QGER INTERNAL MANUFACTURING SPECIFICATIONS



Non-metallic Gaskets

FULL FACE GASKET DIMENSIONS FOR FLAT FACE FLANGES, PN-DESIGNATED (BS EN 1514-1:1997)

NOMINAL SIZE		ID	PN 16				PN 25				PN 40			
DN mm	NPS in.		OD ^{2,3)}	BCD	HOLE DIA.	No. of holes	OD ^{2,3)}	BCD	HOLE DIA.	No. of holes	OD ^{2,3)}	BCD	HOLE DIA.	No. of holes
10		18	90	60	14	4	90	60	14	4	90	60	14	4
15	½	22	95	65	14	4	95	65	14	4	95	65	14	4
20	¾	27	105	75	14	4	105	75	14	4	105	75	14	4
25	1	34	115	85	14	4	115	85	14	4	115	85	14	4
32	1¼	43	140	100	18	4	140	100	18	4	140	100	18	4
40	1½	49	150	110	18	4	150	110	18	4	150	110	18	4
50	2	61	165	125	18	4	165	125	18	4	165	125	18	4
60 ¹⁾		72	175	135	18	8	175	135	18	8	175	135	18	8
65 ⁵⁾	2½	77	185	145	18	8	185	145	18	8	185	145	18	8 ⁵⁾
80	3	89	200	160	18	8	200	160	18	8	200	160	18	8
100	4	115	220	180	18	8	235	190	22	8	235	190	22	8
125	5	141	250	210	18	8	270	220	26	8	270	220	26	8
150	6	169	285	240	22	8	300	250	26	8	300	250	26	8
200	8	220	340	295	22	12	360	310	26	12	375	320	30	12
250	10	273	405 ⁴⁾	355	26	12	425	370	30	12	450	385	33	12
300	12	324	460 ⁴⁾	410	26	12	485	430	30	16	515	450	33	16
350	14	356	520	470	26	16	555	490	33	16	580	510	36	16
400	16	407	580	525	30	16	620	550	36	16	660	585	39	16
450	18	458	640	585	30	20	670	600	36	20	685	610	39	20
500	20	508	715	650	33	20	730	660	36	20	755	670	42	20
600	24	610	840	770	36	20	845	770	39	20	890	795	48	20
700	28	712	910	840	36	24	960	875	42	24	-	-	-	-
800	32	813	1025	950	39	24	1085	990	48	24	-	-	-	-
900	36	915	1125	1050	39	28	1185	1090	48	28	-	-	-	-
1000	40	1016	1255	1170	42	28	1320	1210	56	28	-	-	-	-
1100	44	1120	1355	1270	42	32	1420	1310	56	32	-	-	-	-
1200	48	1220	1485	1390	48	32	1530	1420	56	32	-	-	-	-
1400	56	1420	1685	1590	48	36	1755	1640	62	36	-	-	-	-
1500 ¹⁾	60	1520	1820	1710	56	36	1865	1750	62	36	-	-	-	-
1600	64	1620	1930	1820	56	40	1975	1860	62	40	-	-	-	-
1800	72	1820	2130	2020	56	44	2195	2070	70	36	-	-	-	-
2000	80	2020	2345	2230	62	48	2425	2300	70	36	-	-	-	-

NOTE: FOR PN 16 and PN 40

- 1) Relates to cast iron flanges only.
- 2) Except tongue and groove gasket.
- 3) See table 10 for inside diameters of gasket to suit EN 545, En 598 and En 969 flanges.
- 4) For ductile iron pipes and fittings complying with EN 545, En 598 and 969, the outside diameters for the following flanges are: DN 250: 400mm & DN 300: 455mm
- 5) This gasket is used also for flanges having 4 bolts holes.

= For information only

Dimensions in mm