



Premium Gulf Gasket

حشية الخليج الفاخرة

PREMIUM GULF GASKET

SULTANATE OF OMAN



About Us

Premium Gulf Gaskets (PGG) is a new Industrial Gasket manufacturing facility which is subsidiary of Al Iman Gaskets (K.S.A) & Qatar German Gasket Factory (Qatar) started in the Sultanate of Oman to meet the unique gasketing requirements of Oman.

Our Factory is equipped with most modern technologies to produce top quality Metallic ,Semi Metallic and Non-metallic Industrial sealing products and our well experienced & skilled production team are technically capable enough to ensure that our products are at the highest quality standards.

The broad production portfolio of PGG covers all types of industrial gaskets which is more than enough to meet the requirements of the oil, Gas, chemical, Petrochemical, Water and Power Industries with ON-Time deliveries at customer site with competitive prices. The bulk of raw material are sourced in Europe and USA using approved Quality suppliers assuring the high standards set out to manufacture qualitative gaskets.

Our strict QA/QC guarantees that all gaskets are manufactured according to the required standards .

Our fully computerized administration system enables us to provide you an excellent service and control of documents

Quality Policy & Quality Objectives

QUALITY POLICY

The Quality Policy of Premium Gulf Gasket Factory is implemented in our Vision, Mission and Values

QUALITY POLICY

We continuously maximize the quality of our products and services to become the global leader in the gasket manufacturing sector. We achieve this goal by permanently enhancing the skillset of our highly competent professionals and by regularly improving the already sophisticated technologies that we use.

OUR MISSION

We ensure the production and delivery of highest-quality internationally standardized gaskets to customer sites, with the shortest possible lead times and at competitive prices.

OUR VALUES

We go beyond customer and market expectations.

We create sustainable business partnerships, guarantee our products' top quality, and comply with international standards and requirements at all times, thus achieving total customer satisfaction.

We improve the knowledge and skill levels of all our employees through defined training programs, ensuring that teamwork principles and quality awareness are fully implemented throughout our organization.

Our top management reviews our quality policy at frequent intervals to ensure its suitability to all product and customer needs.

Our top management regularly establishes quality objectives, thus meeting defined process and product requirements, and maintaining PGG's constant high performance.

QUALITY OBJECTIVES

Quality Objectives define the direction of our continuous improvement.

Our performance is regularly reviewed and all relevant data analyzed by our Quality Team.

Measurable objectives and targets are set annually to ensure continuous process improvement.

Our Quality Management System is subject to annual reviews.

Spiral Wound Gaskets

We manufacture Spiral wound gaskets which is semi-metallic, comprising of a spirally wounded preformed metal strip and a nonmetallic filler material, such as graphite or PTFE on the outer periphery of the inner ring and superposed metal with non-metallic windings are continually wound until the required outer diameter is attained.

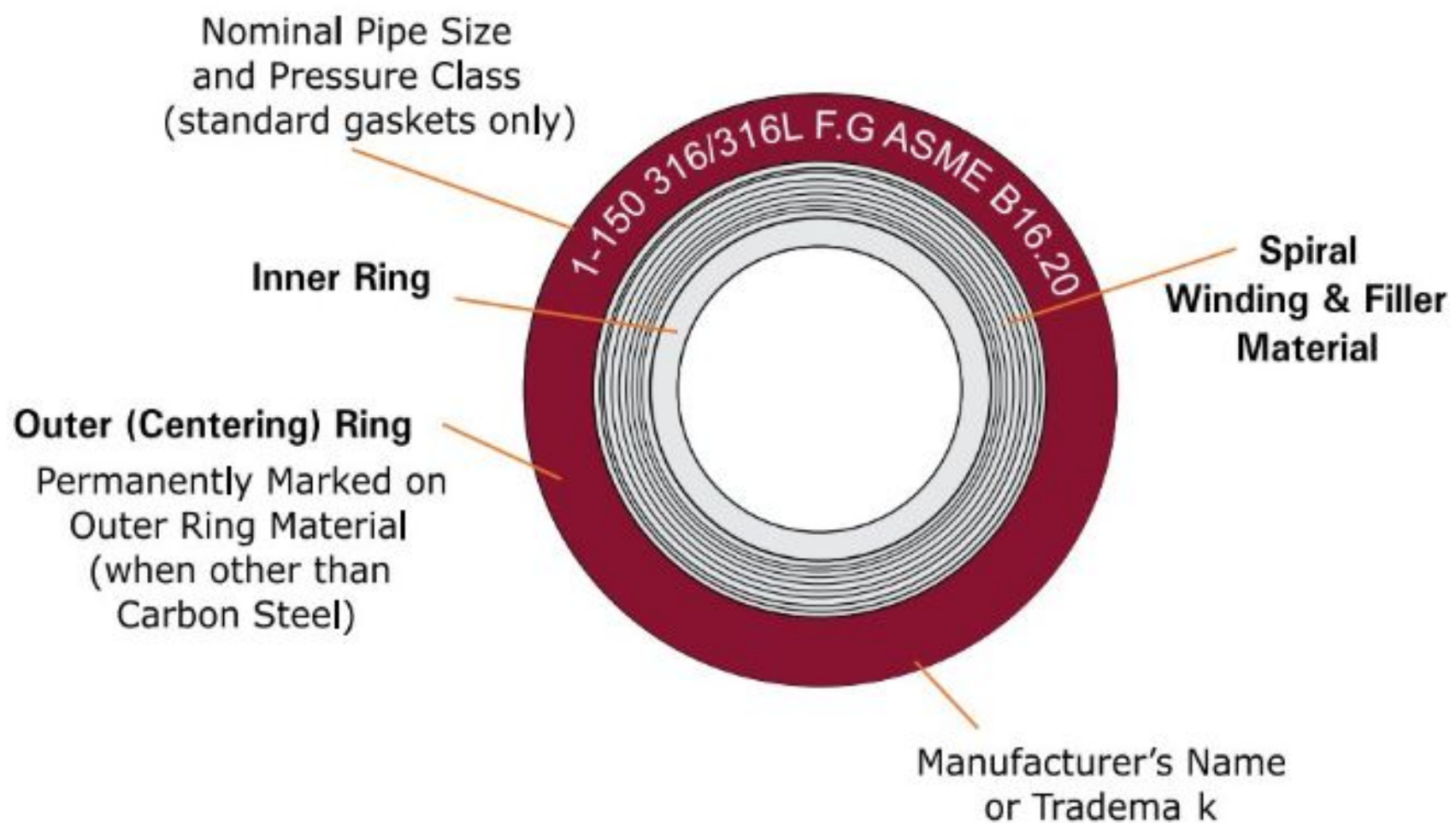
The spiral wound gasket is commonly used with flange surface finishes created using Mirage flange facing machines. These gaskets used in the oil, gas and petrochemical industries are engineered to cope with high pressures, extreme temperatures and chemical attack. Fluctuations in the above, along with temperature differential across the flange face and bolt stress relaxation, demand a gasket with flexibility and recovery. The need for the gasket to recover from changing conditions cannot be over emphasized.

Spiral wound gaskets (SPW Gaskets) can be used over the complete temperature range from cryogenic to approximately 2000°F and in all pressures from vacuum to the standard 2500 psi flange ratings They are more resilient than any other type of metallic gasket with higher flexibility and recovery characteristics to maintain a seal under variable working conditions.

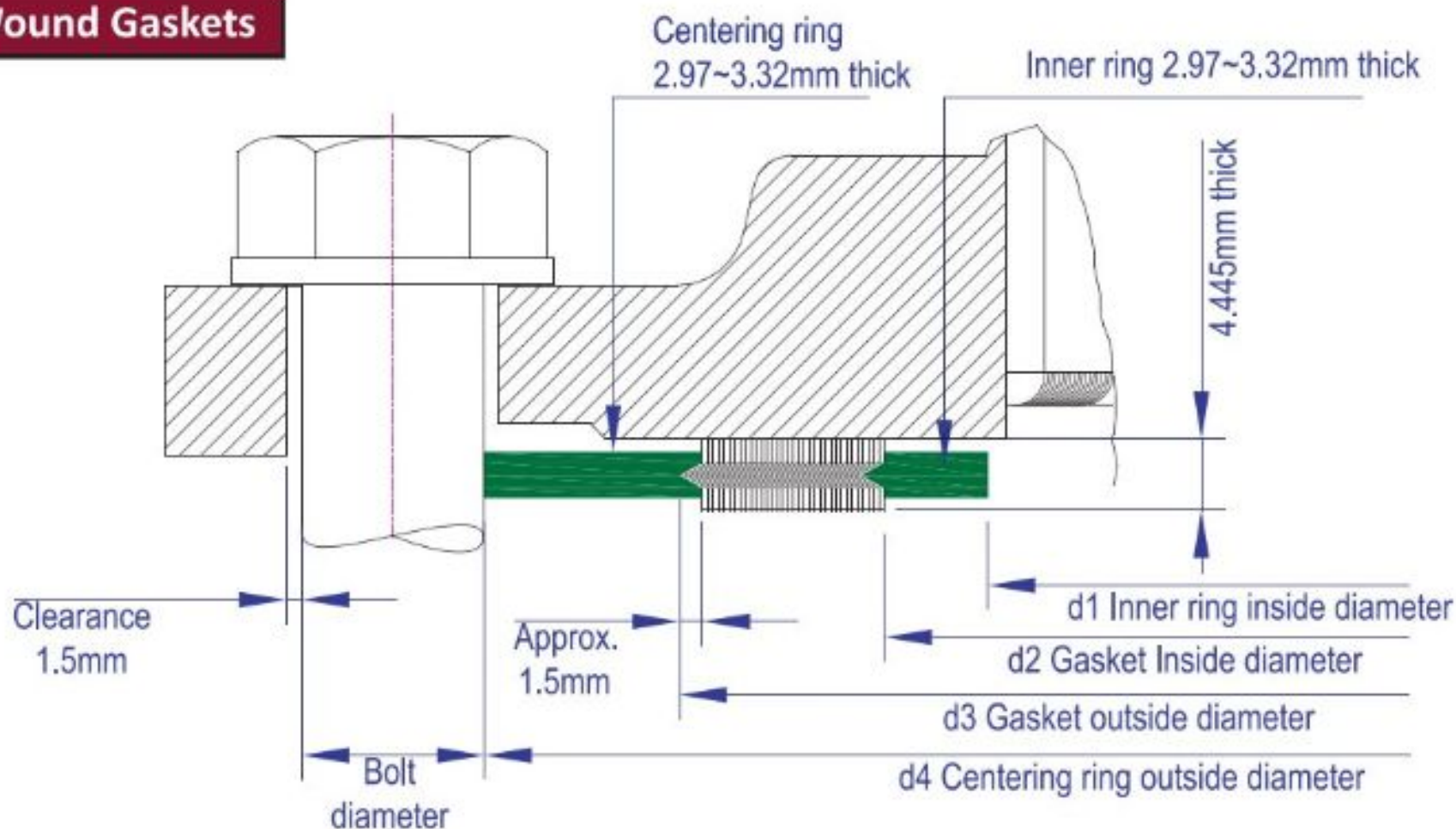
Also on the gasket, is a solid outer ring used for centering and controlling compression. This minimizes the risk of material creep through over-tightening.

For the toughest conditions, spiral wound gaskets are available with an additional inner ring. This protects the windings (particularly the filler), from contamination, or attack by the product travelling past the pipeline joint.

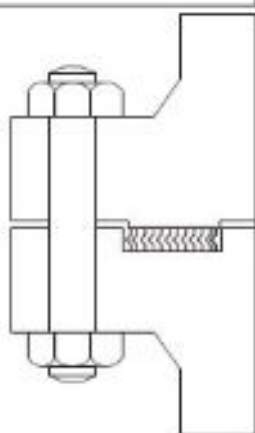
GASKET IDENTIFICATION MARKINGS REQUIRED BY ASME B16.20



Spiral Wound Gaskets

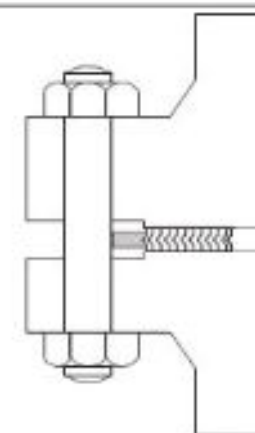


● **QSW1**



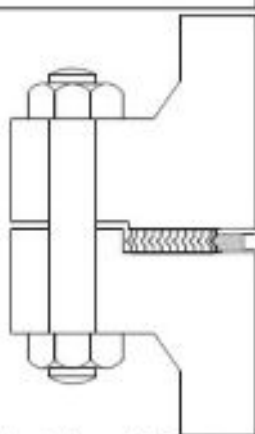
The QSW1 PGG Spiral Wound gasket has no metal ring. This style is suitable for tongue and groove face connection and sometimes for male and female face connection but not suitable for ordinary pipe flange of raised face. This style is commonly used for valve bonnet, pressure vessels, etc.

● **QSW3**



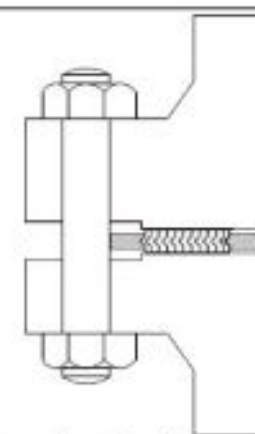
The QSW 2 PGG Spiral Wound gasket has metal inner ring. As inner ring works as reinforcement to prevent internal extrusion or inward buckling of gasket windings caused by compression, this style is suitable for male and female face connection but not suitable for ordinary pipe flange of raised face.

● **QSW2**



The QSW 3 PGG Spiral Wound gasket is with outer metal ring. Outer ring works as 1) centering a gasket properly between the flanges, 2) limiting bolt load at proper compression, 3) preventing external expansion by compression. For PTFE filler gasket, this style is basically not recommended due to possibility of inward buckling during compression. This style is most common for ordinary pipe flange of raised face.

● **QSW4**



The QSW4 PGG Spiral Wound gasket has both metal outer and inner ring. As inner ring works to prevent internal extrusion or inward buckling, this style is especially recommended for the following cases.

- For flanges NPS 24 and larger in class 900, NPS 12 and larger in class 1500
- 1500 and NPS 4 and larger in class 2500#.
- PTFE filler material.- For socket welding, lapped, welding neck & integral flanges. This style is suitable for pipe or pressure vessels using raised face flange connection.

STANDARD DIMENSION TABLE

Spiral Wound Gaskets

DIMENSIONS FOR SPIRAL -WOUND GASKETS USED WITH ASME/ANSI B16.5 FLANGES ASME B16.20:2017
All dimensions are in millimeters.

FLANGES SIZE		d1					d2					d3		d4									
		PN 20	PN 60-100	PN 150	PN 250	PN 420	PN 20-50	PN 60-100	PN 150	PN 250	PN 420	PN 20-100	PN 150-420	PN 20	PN 50	PN 60	PN 100	PN 150	PN 250	PN 420			
DN mm	NPS in.	150 300	400 ⁽¹⁾ 600	900 ⁽¹⁾ 1500	1500 ⁽¹⁾ 2500	2500 ⁽¹⁾	150 300	400 600	900	1500	2500	150 300	400 600	900	1500	2500	150	300	400	600	900	1500	2500
15	1/2	14.2	14.2	14.2	14.2	14.2	19.1	19.1	19.1	19.1	19.1	31.8	31.8	47.8	47.8	47.8	54.1	54.1	54.1	54.1	63.5	63.5	69.9
20	3/4	20.6	20.6	20.6	20.6	20.6	25.4	25.4	25.4	25.4	25.4	39.6	39.6	57.2	57.2	57.2	66.8	66.8	66.8	66.8	69.9	69.9	76.2
25	1	26.9	26.9	26.9	26.9	26.9	31.8	31.8	31.8	31.8	31.8	47.8	47.8	66.8	66.8	66.8	73.2	73.2	73.2	73.2	79.5	79.5	85.9
32	1 1/4	38.1	38.1	33.3	33.3	33.3	47.8	47.8	39.6	39.6	39.6	60.5	60.5	76.2	82.6	82.6	82.6	82.6	82.6	88.9	88.9	104.9	104.9
40	1 1/2	44.5	44.5	41.4	41.4	41.4	54.1	54.1	47.8	47.8	47.8	69.9	69.9	85.9	95.3	95.3	95.3	95.3	95.3	98.6	98.6	117.6	117.6
50	2	55.6	55.6	52.3	52.3	52.3	69.9	69.9	58.7	58.7	58.7	85.9	85.9	104.9	111.3	111.3	111.3	111.3	111.3	143	143	143	146
65	2 1/2	66.5	66.5	63.5	63.5	63.5	82.6	82.6	69.9	69.9	69.9	98.6	98.6	124	130.3	130.3	130.3	130.3	130.3	165.1	165.1	168.4	168.4
80	3	81.0	81.0	78.7	78.7	78.7	101.6	101.6	95.3	92.2	92.2	120.7	120.7	136.7	149.4	149.4	149.4	149.4	149.4	168.4	174.8	196.9	196.9
90	3 1/2	93.7	93.7	-	-	-	114.3	104.8	104.8	104.8	-	133.4	133.4	161.9	165.1	161.9	161.9	161.9	161.9	190.5	187.3	-	-
100	4	106.4	102.6	102.6	97.8	97.8	127	120.7	120.7	117.6	117.6	149.4	149.4	174.8	181.1	177.8	193.8	206.5	209.6	235	-	-	235
125	5	131.8	128.3	128.3	124.5	124.5	155.7	147.6	147.6	143	143	177.8	177.8	196.9	215.9	212.9	241.3	247.7	254	279.4	-	-	279.4
150	6	157.2	154.9	154.9	147.3	147.3	182.6	174.8	174.8	171.5	171.5	209.6	209.6	222.3	251	247.7	266.7	289.1	282.7	317.5	-	-	317.5
200	8	215.9	205.7	196.9	196.9	196.9	233.4	225.6	222.3	215.9	215.9	263.7	257.3	279.4	308.1	304.8	320.8	358.9	352.6	387.4	-	-	387.4
250	10	268.3	255.3	246.1	246.1	246.1	287.3	274.6	276.4	266.7	270	317.5	311.2	339.9	362	358.9	400.1	435.1	435.1	476.3	-	-	476.3
300	12	317.5	307.3	292.1	292.1	292.1	339.9	327.2	323.9	323.9	317.5	374.7	368.3	409.7	422.4	419.1	457.2	498.6	520.7	549.4	-	-	549.4
350	14	349.3	342.9	320.8	320.8	-	371.6	362	355.6	362	-	406.4	400.1	450.9	485.9	482.6	492.3	520.7	577.9	-	-	-	-
400	16	400.1	389.9	374.7	368.3	-	422.4	412.8	412.8	406.4	-	463.6	457.2	514.4	539.8	536.7	565.2	574.8	641.4	-	-	-	-
450	18	449.3	438.2	425.5	425.5	-	474.7	469.9	463.6	463.6	-	527.1	520.7	549.4	596.9	593.9	612.9	638.3	704.9	-	-	-	-
500	20	500.1	489.0	482.6	476.3	-	525.5	520.7	520.7	514.4	-	577.9	571.5	606.5	654.1	647.7	682.8	698.5	755.7	-	-	-	-
600	24	603.3	590.6	590.6	577.9	-	628.7	628.7	628.7	616.0	-	685.8	679.5	717.6	774.7	768.4	790.7	838.2	901.7	-	-	-	-

NOTES:

FOR INNER RING - ASME B16.20

1) There are no a) NPS 3/4 through NPS 3 Class 400 flanges; therefore, use Class 600 flanges.

b) NPS 3/4 through NPS 2 1/2 Class 900 flanges; therefore, use Class 1500 flanges.

c) NPS 1 1/2 and larger class 2500 flanges.

2) Refer to para. 3.2.5 for required use of inner rings.

NPS 25 (in. (DN 600 mm)) for reference only. Size not listed in ASME B16.20

For information only

DIMENSIONS FOR SPIRAL -WOUND GASKETS USED WITH ASME B16.47 SERIES 'A' FLANGES

ASME B16.20:2017 Table SW-2.1-2 & SW-2.1-5

FLANGES SIZE		d1					d2					d3					d4									
		PN 20	PN 50	PN 60	PN 100	PN 150	PN 20	PN 50	PN 60	PN 100	PN 150	PN 20	PN 50	PN 60	PN 100	PN 150	PN 20	PN 50	PN 60	PN 100	PN 150					
DN mm	NPS in.	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs	150 lbs	300 lbs	400 lbs	600 lbs	900 lbs
550	22	552.5	552.5	552.5	552.5	-	577.9	577.9	577.9	577.9	616.0	609.6	628.7	628.7	628.7	685.8	660.4	704.8	701.7	733.4	838.2	-	-	-	-	-
650	26	654.1	654.1	660.4	647.7	660.4	673.1	685.8	685.8	685.8	685.8	704.9	736.6	736.6	736.6	736.6	774.7	835.2	831.9	866.9	882.7	-	-	-	-	-
700	28	704.9	704.9	711.2	698.5	711.2	723.9	736.6	736.6	736.6	736.6	755.7	787.4	787.4	787.4	787.4	831.9	898.7	892.3	914.4	946.2	-	-	-	-	-
750	30	755.7	755.7	755.7	755.7	768.4	774.7	793.8	793.8	793.8	793.8	806.5	844.6	844.6	844.6	844.6	882.7	952.5	946.2	971.6	1009.7	-	-	-	-	-
800	32	806.5	806.5	812.8	812.8	812.8	825.5	850.9	850.9	850.9	850.9	860.6	901.7	901.7	901.7	901.7	939.8	1006.6	1003.3	1022.4	1073.2	-	-	-	-	-
850	34	857.3	857.3	863.6	863.6	863.6	876.3	901.7	901.7	901.7	901.7	911.4	952.5	952.5	952.5	952.5	990.6	1057.4	1054.1	1073.2	1136.7	-	-	-	-	-
900	36	908.1	908.1	917.7	917.7	920.8	927.1	955.8	955.8	955.8	958.9	968.5	1006.6	1006.6	1006.6	1009.7	1047.8	1117.6	1117.6	1130.3	1200.2	-	-	-	-	-
950	38	958.9	952.5	952.5	952.5	1009.7	977.9	977.9	971.6	990.6	1035.1	1019.3	1016.0	1022.4	1041.4	1085.8	1111.3	1054.1	1073.2	1104.9	1200.2	-	-	-	-	-
1000	40	1009.7	1003.3	1000.3	1009.7	1060.5	1028.7	1022.4	1025.7	1047.8	1098.6	1070.1	1070.1	1076.5	1098.6	1149.4	1162.1	1114.6	1127.3	1155.7	1251.0	-	-	-	-	-
1050	42	1060.5	1054.1	1051.1	1066.8	1111.3	1079.5	1073.2	1076.5	1104.9	1149.4	1124.0	1120.9	1127.3	1155.7	1200.2	1219.2	1165.4	1178.1	1219.2	1301.8	-	-	-	-	-
1100	44	1111.3	1104.9	1104.9	1111.3	1155.7	1130.3	1130.3	1130.3	1162.1	1206.5	1178.1	1181.1	1181.1	1212.9	1257.3	1276.4	1219.2	1231.9	1270.0	1368.6	-	-	-	-	-
1150	46	1162.1	1152.7	1168.4	1162.1	1219.2	1181.1	1178.1	1193.8	1212.9	1270.0	1228.9	1228.9	1244.6	1263.7	1320.8	1327.2	1273.3	1289.1	1327.2	1435.1	-	-	-	-	-
1200	48	1212.9	1209.8	1206.5	1219.2	1270.0	1231.9	1235.2	1244.6	1270.0	1320.8	1279.7	1286.0	1295.4	1320.8	1371.6	1384.3	1324.1	1346.2	1390.7	1485.9	-	-	-	-	-
1250	50	1263.7	1244.6	1257.3	1270.0	-	1282.7	1295.4	1295.4	1320.8	-	1333.5	1346.2	1346.2	1371.6	-	1435.1	1378.0	1403.4	1447.8	-	-	-	-	-	-
1300	52	1314.5	1320.8	1308.1	1320.8	-	1333.5	1346.2	1346.2	1371.6	-	1384.3	1397.0	1397.0	1422.4	-	1492.3	1428.8	1454.2	1498.6	-	-	-	-	-	-
1350	54	1358.9	1352.6	1352.6	1378.0	-	1384.3	1403.4	1403.4	1428.8	-	1435.1	1454.2	1454.2	1479.6	-	1549.4	1492.3	1517.7	1555.8	-	-	-	-	-	-
1400	56	1409.7	1403.4	1403.4	1428.8	-	1435.1	1454.2	1454.2	1479.6	-	1485.9	1505.0	1505.0	1530.4	-	1606.6	1543.1	1568.5	1612.9	-	-	-	-	-	-
1450	58	1460.5	1447.8	1454.1	1473.2	-	1485.9	1511.3	1505.0	1536.7	-	1536.7	1562.1	1555.8	1587.5	-	1663.7	1593.8	1619.3	1663.7	-	-	-	-	-	-
1500	60	1511.3	1524.0	1517.7	1530.4	-	1536.7	1562.1	1568.5	1593.9	-	1587.5	1612.9	1619.3	1644.7	-	1714.5	1644.7	1682.8	1733.6	-	-	-	-	-	-

Non-metallic Gaskets

Non-Asbestos Materials



PTFE Based Materials



High Performance Graphite Materials



Elastomeric Rubber Materials



Non-metallic Gaskets

ELASTOMERIC GASKET MATERIALS

Elastomeric gaskets with different chemical and mechanical properties are being supplied to oil and petrochemical industries, sewerage & chilled water sector and exclusively for Potable water applications.

There are varieties of elastomeric gaskets, gasket sheets/rolls with different sizes which are produced against the international standards such as ASME B16.21, BS EN 1514-1, JIS etc.

The materials available with us are as follows:-

- Neoprene
- Neoprene W/ Cotton Reinforcement
- EPDM (Ethylene Propylene Diene Monomer)
- EPDM W/ Cotton Reinforcement
- EPDM (WRAS Approved) for Potable Water Applications W/ 2 Ply Cloth Reinforcement.
- NBR (Nitrile Butadiene Rubber)
- Viton (FPM)
- Silicon
- SBR (Styrene Butadiene Rubber)
- Kalrez (FFKM)



Full Face Gaskets for Flat Face Flanges



Flat Ring Gaskets for Raised Face Flanges

PTFE ENVELOPED GASKETS

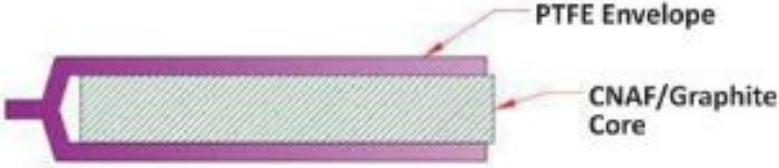
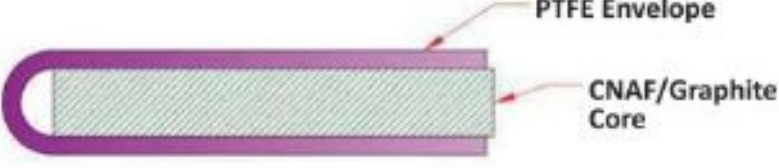
Polytetrafluorethylene (PTFE) Envelope Gaskets are used for sealing all acid and caustic media PH 0-14, with the gasket material being used as a filter gasket. envelope gaskets, resistant to virtually all chemicals and exhibiting excellent non-stick properties. No risk of process contamination, provided by strict process control and manufactured by **PGG**.

Envelope Gasket using Compressed Non-Asbestos Fiber Sheet and Flexible Graphite in the core. Common uses for PTFE Envelope Gaskets and materials below.

- * Food & Chemical Industries
- * Piping service
- * Pharmaceutical Industry
- * General purpose for glass line industry.

The PTFE envelopes are available in standard and non standard dimensions with us.

PTFE envelope gaskets are available in the following configurations:

<p><u>Y-FORM</u> Split-type, suitable for most applications</p>	
<p><u>U-FORM</u> Machined round-edge type, for use with toxic chemicals and on large diameter gaskets</p>	



Non-metallic Gaskets

Standard Dimension Table For ASME B16.5 Flanges

**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)

**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)

**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)

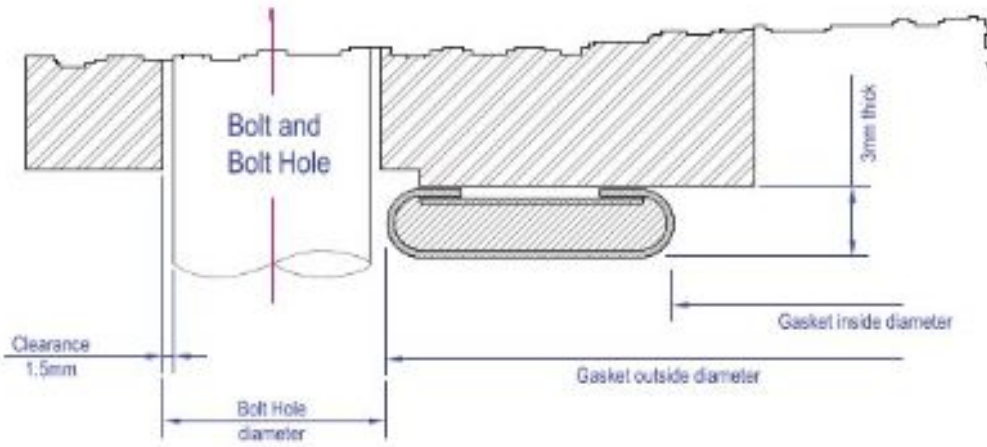
**FULL FACE GASKET DIMENSIONS TO ASME B16.21:2016
USED WITH ASME/ANSI B16.5 FLAT FACE FLANGES**

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)

Metal Jacketed Gaskets



Filler Material




Metal Jacket

TYPE	PRODUCT	CHARACTERISTICS
QDJ1		The most popular style for heat exchangers, the double-jacket offers complete protection of the filler material. There is practically no diameter limitation, with greater compressibility and resilience than a similar solid metal gasket. This gasket provides even support by the use of the overlapped jacket on the inside and outside diameters. Also, the outside lap helps to prevent excessive distortion of light weight flanges. The most common filler used is graphite. A wide range of metal and filler material is available if dictated by temperature, pressure, or corrosive conditions.
QDJ2		The corrugated style has increased resilience with the benefit of a number of seal points. If a small leakage occurs across the inside edge, the corrugations act as separate seals under moderate and even bolt loads
QDJ3		This gasket employs a metal filler rather than graphite or other soft material. The result is greater resistance to problems resulting from temperature changes. The range of temperature is limited only by the metal selected.
QDJ4		This gasket is generally used for applications where narrow width is required. The single jacket gasket with a soft filler protects both edges of the filler material. It is an economical answer to many gasket needs. Single jacketed gaskets are available with corrugated metal fillers.
QDJ5		Affording the advantages of the standard double jacketed gasket, the doubles shell style allows greater strength and rigidity by the addition of a completely overlapping inner shell. This gasket has a minimum flange width of 1/4", and can be produced in almost any diameter. As with other heat exchanger gaskets, there is a greater variety of available metals and filler materials.
QDJ6		A Gasket with completely enclosed filler offering more filler protection than the standard single gasket. Especially useful for applications requiring small flange widths (to 1/8"). Certain sizes may require tooling to produce.
QDJ7		The two piece French Style gasket is more readily available and easier to produce than the one-piece French style which requires expensive tooling. The soft filler is exposed on the outside diameter and the minimum flange width is 1/4". Size of diameter is practically unlimited.
QDJ8		This Gasket combines advantages of metal shielding on the I.D. with a thick, compressible layer of soft gasket material on either side of the metal. Metal thickness is 26 gauge, tack welded together and then rolled over on the ID, acting as a shield. The layers of soft gasket materials are available in various

Solid Metal Gaskets

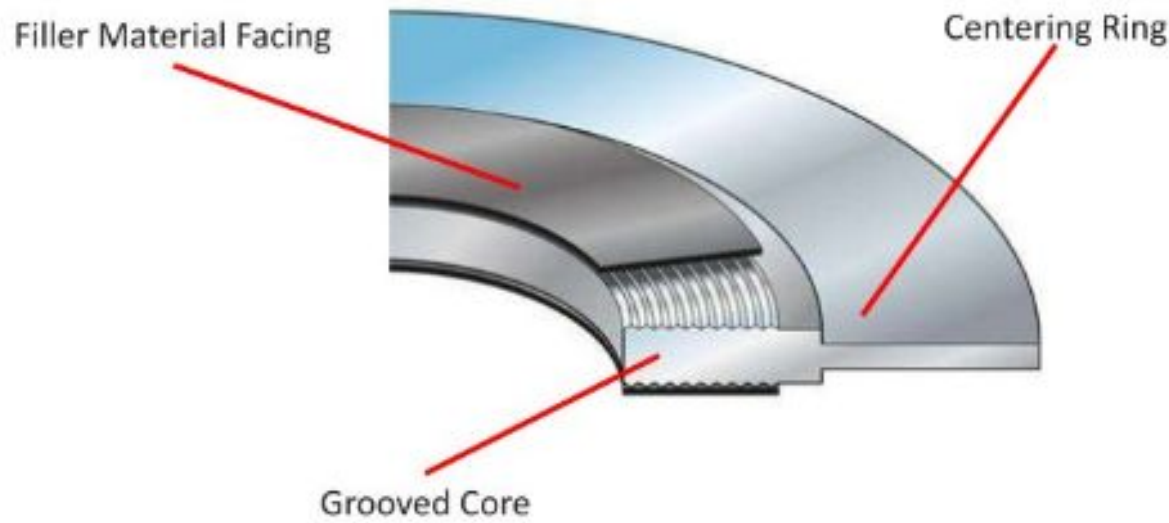
Solid metal gaskets have numerous plus points like great strength, good heat conductivity and resistance to temperature, corrosion and pressure. They are comparatively cheap, light weighing and have great modulus of resilience.



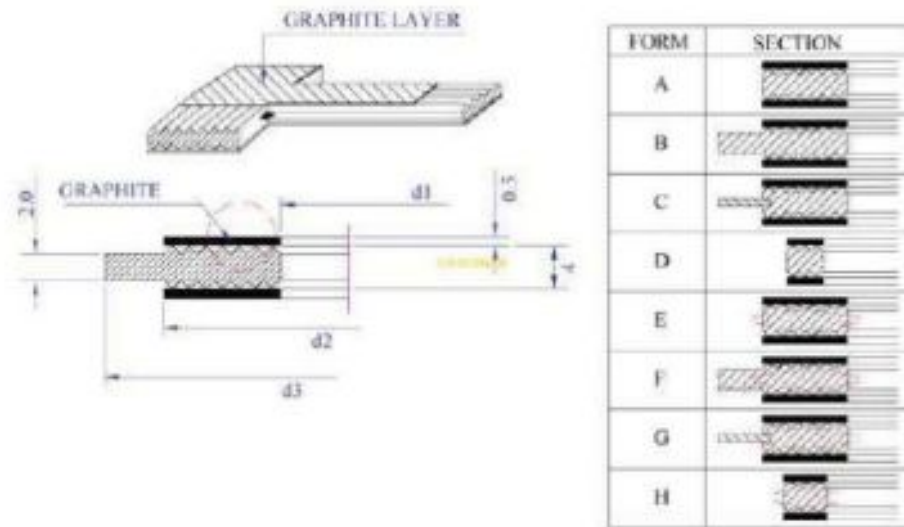
ITEM	PRODUCT	CHARACTERISTICS
QSM1		<p>While requiring a smooth flange face and high bolt load, the solid metal QSM1 gasket has numerous “Plus” point. It has great strength, good heat conductivity, and resistance to temperature, corrosion and pressure. There is practically no size or shape limitation.</p>
QSM2		<p>This type of gasket is economical for a low-pressure seal on smooth flanges with low bolt pressure. Advantages are low cost, lightweight and greater resilience than a comparable flat solid gasket. Temperature applications are based upon the metal selected.</p>
QSM3		<p>In cross section, the QSM3 gasket incorporates a solid metal core with graphite foil bonded to each face. The graphite facing layers are manufactured from high purity material to exact thickness and density, thus ensuring that correct material compression can be controlled, vital in enclosed applications. This high quality graphite material provides excellent sealing characteristics, readily flowing into flange imperfections under relatively low applied loads, whilst the metallic core provides a rigid gasket construction, vital for operating and handling conditions.</p>

Camprofile/Grooved Gaskets

Camprofile/grooved gaskets have proven extremely useful in all areas of industry, including the most demanding sealing tasks. Particularly in places where there are high pressures and temperatures, and fluctuating conditions



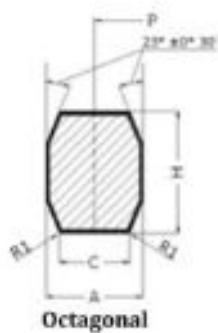
PROFILE TYPES



GROOVED GASKET DIMENSIONS as per ASME B16.20 FOR ASME B16.5 FLANGES

Dimension in mm		Gasket Contact Width (1) W	Gasket Inside Diameter (d1)	Gasket Outside Diameter (d2)	Centering Ring Outside Diameter (d3)						
(mm)	(in)				150	300	400	600	900	1500	2500
15	½	4.83	23.1	33.3	47.8	54.1	54.1	54.1	63.5	63.5	69.9
20	¾	4.83	28.7	39.6	57.2	66.8	66.8	66.8	69.9	69.9	76.2
25	1	6.35	36.6	47.5	66.8	73.2	73.2	73.2	79.5	79.5	85.9
32	1 ¼	7.87	44.5	60.2	76.2	82.6	82.6	82.6	88.9	88.9	104.9
40	1 ½	9.65	52.3	69.9	85.9	95.3	95.3	95.3	98.6	98.6	117.6
50	2	9.65	69.9	88.9	104.9	111.3	111.3	111.3	142.3	143.0	146.1
65	2 ½	9.65	82.6	101.6	124.0	130.3	130.3	130.3	165.1	165.1	168.4
80	3	9.65	98.3	123.7	136.7	149.4	149.4	149.4	168.4	174.8	196.9
90	3 ½	7.95	101.60	153.9	162.05	165.10	162.05	162.05	-	-	-
100	4	12.70	123.7	153.9	174.8	181.1	177.8	193.8	206.5	209.6	235.0
125	5	12.70	150.9	182.6	196.9	215.9	212.9	241.3	247.7	254	279.4
150	6	12.70	177.8	212.6	222.3	251	247.7	266.7	289.1	282.7	317.5
200	8	15.75	228.6	266.7	279.4	308.1	304.8	320.8	358.9	352.6	387.4
250	10	19.05	282.7	320.8	339.9	362	358.9	400.1	435.1	435.1	476.3
300	12	19.05	339.6	377.7	409.7	422.4	419.1	457.2	498.6	520.7	549.4
350	14	19.05	371.6	409.7	450.9	485.9	482.6	492.3	520.7	577.9	-
400	16	22.35	422.4	466.6	514.4	539.8	536.7	565.2	574.8	641.4	-
450	18	22.35	479.3	530.1	549.4	596.9	593.9	612.9	638.3	704.9	-
500	20	25.40	530.1	580.9	606.6	654.1	647.7	682.8	698.5	755.7	-
600	24	25.40	631.7	682.5	717.6	774.7	768.4	790.7	838.2	901.7	-

Metal Ring Joint Gaskets TYPE 'R'



Note for markings:

- TO BE MARKED WITH API6A AND ASME B16.20
- TO BE MARKED WITH ASME B16.20 ONLY



Ring joint gaskets are typically manufactured to API 6A / ASME B16.20 and it is primarily used in high pressure & high temperature flange gasket applications. These are made from solid metallic materials. The requirements in terms of dimensional accuracy and surface finish are therefore high

[4] TYPE "R" Ring Gaskets - According to ASME B16.20 : 2017 / API 6A:2010

ASME B16.20:2017; Table:RJ-5-1 and API 6A 20" Ed.:2010; Clause 10.4.2.1 Table 63

NOMINAL PIPE SIZE / NOMINAL PRESSURE											Dimensions in millimeters											
ASME/ANSI B16.5					API 6B					ASME B16.47 Series A	RING NUMBER	OUTSIDE DIA. OF RING	INSIDE DIA. OF RING	PITCH DIAMETER OF RING	HEIGHT OF RING OVAL	HEIGHT OF RING OCTA.	WIDTH OF RING	WIDTH OF FLAT OF OCTA. RING	Radius in Oct. Ring	WEIGHT		
150	300-600	900	1500	2500	720-960	2000	3000	5000	150	300-600		900	OD ±0.38	ID	P ±0.18	B ±0.5	H TH +1.3 / -0.5	A ±0.20	C ±0.20	R ₁ ±0.50	OVAL Kgs.	OCTA Kgs.
	1/2											R11	40.49	27.79	34.14	11.2	9.7	6.35	4.32	1.5	0.05	0.05
		1/2	1/2									R12	47.65	31.75	39.7	14.2	12.7	7.95	5.23	1.5	0.10	0.10
				1/2								R13	50.83	34.93	42.88	14.2	12.7	7.95	5.23	1.5	0.10	0.10
					3/4							R14	52.4	36.5	44.45	14.2	12.7	7.95	5.23	1.5	0.11	0.11
1												R15	55.58	39.67	47.63	14.2	12.7	7.95	5.23	1.5	0.12	0.11
	1	1	1	3/4	1	1	1	1				R16	58.75	42.85	50.8	14.2	12.7	7.95	5.23	1.5	0.12	0.11
1 1/4												R17	65.1	49.2	57.15	14.2	12.7	7.95	5.23	1.5	0.14	0.13
	1 1/4	1 1/4	1 1/4	1	1 1/4	1 1/4	1 1/4	1 1/4				R18	68.28	52.37	60.33	14.2	12.7	7.95	5.23	1.5	0.15	0.14
1 1/2												R19	73.05	57.15	65.1	14.2	12.7	7.95	5.23	1.5	0.16	0.15
	1 1/2	1 1/2	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2				R20	76.23	60.33	68.28	14.3	12.7	7.95	5.23	1.5	0.17	0.15
				1 1/4								R21	83.36	61.11	72.24	17.5	16.0	11.13	7.75	1.5	0.30	0.29
2												R22	90.5	74.6	82.55	14.2	12.7	7.95	5.23	1.5	0.20	0.19
	2			1 1/2	2	2						R23	93.68	71.42	82.55	17.5	15.9	11.13	7.75	1.5	0.34	0.33
		2	2				2	2				R24	106.38	84.12	95.25	17.5	15.9	11.13	7.75	1.5	0.39	0.38
2 1/4												R25	109.55	93.65	101.6	14.2	12.7	7.95	5.23	1.5	0.25	0.23
	2 1/4			2	2 1/4	2 1/4						R26	112.73	90.47	101.6	17.5	15.9	11.13	7.75	1.5	0.42	0.41
		2 1/4	2 1/4				2 1/4	2 1/4				R27	119.08	96.82	107.95	17.5	15.9	11.13	7.75	1.5	0.45	0.43
				2 1/4								R28	123.83	98.43	111.13	19.1	17.5	12.7	8.66	1.5	0.57	0.55
3												R29	122.25	106.35	114.3	14.2	12.7	7.95	5.23	1.5	0.28	0.26
	3											R30	128.6	106.35	117.48	17.5	16.0	11.13	7.75	1.5	0.48	0.47
		3			3	3	3					R31	134.95	112.7	123.83	17.5	15.9	11.13	7.75	1.5	0.51	0.50
				3								R32	139.7	114.3	127	19.1	17.5	12.7	8.66	1.5	0.65	0.63
3 1/4												R33	139.73	123.83	131.78	14.2	12.7	7.95	5.23	1.5	0.32	0.30
	3 1/4											R34	142.9	120.65	131.78	17.5	16.0	11.13	7.75	1.5	0.54	0.52
			3					3				R35	147.65	125.4	136.53	17.5	15.9	11.13	7.75	1.5	0.56	0.55
4												R36	157.18	141.27	149.23	14.2	12.7	7.95	5.23	1.5	0.37	0.34
	4	4			4	4	4	3 1/4				R37	160.35	138.1	149.23	17.5	15.9	11.13	7.75	1.5	0.62	0.60
				4								R38	173.05	141.3	157.18	22.4	20.6	15.88	10.49	1.5	1.16	1.14
				4				4				R39	173.05	150.8	161.93	17.5	15.9	11.13	7.75	1.5	0.67	0.65
5												R40	179.4	163.5	171.45	14.2	12.7	7.95	5.23	1.5	0.42	0.39
	5	5			5	5	5					R41	192.1	169.85	180.98	17.5	15.9	11.13	7.75	1.5	0.75	0.73
				5								R42	209.55	171.45	190.5	25.4	23.9	19.05	12.32	1.5	1.91	1.88
6												R43	201.63	185.72	193.68	14.2	12.7	7.95	5.23	1.5	0.48	0.44
			5					5				R44	204.8	182.55	193.68	17.5	15.9	11.13	7.75	1.5	0.80	0.78
	6	6			6	6	6					R45	222.28	200.03	211.15	17.5	15.9	11.13	7.75	1.5	0.87	0.85
				6				6				R46	223.85	198.45	211.15	19.1	17.5	12.7	8.66	1.5	1.08	1.05
				6								R47	247.65	209.55	228.6	25.4	23.9	19.05	12.32	1.5	2.29	2.26
8												R48	255.6	239.7	247.65	14.2	12.7	7.95	5.23	1.5	0.61	0.56
	8	8			8	8	8					R49	281	258.75	269.88	17.5	15.9	11.13	7.75	1.5	1.11	1.09
				8				8				R50	285.75	254	269.88	22.4	20.6	15.88	10.49	1.5	1.99	1.95
				8								R51	301.63	257.18	279.4	28.7	26.9	22.23	14.81	1.5	3.65	3.69
10												R52	312.75	296.85	304.8	14.2	12.7	7.95	5.23	1.5	0.75	0.69
	10	10			10	10	10					R53	334.98	312.72	323.85	17.5	15.9	11.13	7.75	1.5	1.34	1.30
				10				10				R54	339.73	307.98	323.85	22.4	20.6	15.88	10.49	1.5	2.39	2.35
				10								R55	371.48	314.33	342.9	36.6	35.1	28.58	19.81	2.3	7.35	7.68

PREMIUM GULF GASKET

Metal Ring Joint Gaskets

NOMINAL PIPE SIZE / NOMINAL PRESSURE												Dimensions in millimeters											
ASME/ANSI B16.5					API 6B				ASME B16.47 Series A			RING NUMBER	OUTSIDE DIA. OF RING OD ±0.38	INSIDE DIA. OF RING ID	PITCH DIAMETER OF RING P ±0.18	HEIGHT OF RING OVAL B ±0.5	HEIGHT OF RING OCTA. H ⁽¹⁾ +1.3 / -0.5	WIDTH OF RING A ±0.20	WIDTH OF FLAT OF OCTA. RING C ±0.20	Radius in Oct. Ring R ₁ ±0.50	WEIGHT		
150	300-600	900	1500	2500	720-960	2000	3000	10000	150	300-600	900										OVAL Kgs.	OCTA Kgs.	
												R56	388.95	373.05	381	14.2	12.7	7.95	5.23	1.5	0.93	0.87	
	12	12			12	12	12				12	12	R57	392.13	369.87	381	17.5	15.9	11.13	7.75	1.5	1.57	1.53
			12										R58	403.23	358.78	381	28.7	26.9	22.23	14.81	1.5	4.98	5.03
14													R59	404.83	388.92	396.88	14.2	12.7	7.95	5.23	1.5	0.98	0.90
				12									R60	438.15	374.65	406.4	39.6	38.1	31.75	22.33	2.3	10.47	11.09
	14				14	14	14				14		R61	430.23	407.97	419.1	17.5	16.0	11.13	7.75	1.5	1.73	1.69
		14										14	R62	434.98	403.23	419.1	22.4	20.6	15.88	10.49	1.5	3.09	3.04
			14										R63	444.5	393.7	419.1	33.3	31.8	25.4	17.3	2.3	7.33	7.54
16													R64	461.98	446.07	454.03	14.2	12.7	7.95	5.21	1.5	1.12	1.03
	16				16	16					16		R65	481.03	458.77	469.9	17.5	15.9	11.13	7.75	1.5	1.94	1.89
		16				16						16	R66	485.78	454.03	469.9	22.4	20.6	15.88	10.49	1.5	3.47	3.40
			16										R67	498.48	441.33	469.9	36.6	35.1	28.58	19.81	2.3	10.07	10.53
18													R68	525.48	509.57	517.53	14.2	12.7	7.95	5.23	1.5	1.28	1.18
	18				18	18					18		R69	544.53	522.27	533.4	17.5	15.9	11.13	7.75	1.5	2.20	2.15
		18				18						18	R70	552.45	514.35	533.4	25.4	23.9	19.05	12.32	1.5	5.35	5.27
			18										R71	561.98	504.83	533.4	36.6	35.1	28.58	19.81	2.3	11.43	11.95
20													R72	566.75	550.85	558.80	14.2	12.7	7.95	5.23	1.5	1.38	1.27
	20				20	20					20		R73	596.90	571.50	584.20	19.1	17.5	12.70	8.66	1.5	2.99	2.92
		20				20						20	R74	603.25	565.15	584.20	25.4	23.9	19.05	12.32	1.5	5.85	5.77
			20										R75	615.95	552.45	584.20	39.6	38.1	31.75	22.33	2.3	15.05	15.94
24													R76	681.05	665.15	673.10	14.2	12.7	7.95	5.23	1.5	1.66	1.53
	24										24		R77	708.03	676.28	692.15	22.4	20.6	15.88	10.49	1.5	5.11	5.01
		24										24	R78	717.55	666.75	692.15	33.3	31.8	25.40	17.30	2.3	12.10	12.46
			24										R79	727.08	657.23	692.15	44.5	41.4	34.93	24.82	2.3	22.58	22.06
										22			R80	623.90	608.00	615.95	-	12.7	7.95	5.23	1.5	1.52	1.40
										22			R81	649.30	620.70	635.00	-	19.1	14.30	9.58	1.5	4.05	3.86
								1					R82	68.28	46.02	57.15	-	15.9	11.13	7.75	1.5	-	0.23
								1½					R84	74.63	52.37	63.50	-	15.9	11.13	7.75	1.5	-	0.25
								2					R85	92.08	66.68	79.38	-	17.5	12.70	8.66	1.5	-	0.40
								2½					R86	106.38	74.63	90.50	-	20.6	15.88	10.49	1.5	-	0.65
								3					R87	115.90	84.15	100.03	-	20.6	15.88	10.49	1.5	-	0.72
								4					R88	142.88	104.78	123.83	-	23.9	19.05	12.32	1.5	-	1.22
								3%					R89	133.35	95.25	114.30	-	23.9	19.05	12.32	1.5	-	1.13
								5					R90	177.80	133.35	155.58	-	26.9	22.23	14.81	1.5	-	2.05
								10					R91	292.10	228.60	260.35	-	38.1	31.75	22.33	2.3	-	7.10
													R92	239.73	217.47	228.60	17.5	16.0	11.13	7.75	1.5	0.94	0.92
										26			R93	768.35	730.25	749.30	-	23.9	19.05	12.32	1.5	0.94	0.92
										28			R94	819.15	781.05	800.10	-	23.9	19.05	12.32	1.5	-	7.40
										30			R95	876.30	838.20	857.25	-	23.9	19.05	12.32	1.5	-	7.90
										32			R96	936.63	892.18	914.40	-	26.9	22.23	14.81	1.5	-	8.47
										34			R97	987.43	942.98	965.20	-	26.9	22.23	14.81	1.5	-	12.08
										36			R98	1,044.58	1,000.13	1,022.35	-	26.9	22.23	14.81	1.5	-	12.75
						8	8						R99	246.08	223.82	234.95	-	15.9	11.13	7.75	1.5	-	13.51
										26			R100	777.88	720.73	749.30	-	35.1	28.58	19.81	2.3	-	0.95
										28			R101	831.85	768.35	800.10	-	38.1	31.75	22.33	2.3	-	16.79
										30			R102	889.00	825.50	857.25	-	38.1	31.75	22.33	2.3	-	21.83
										32			R103	946.15	882.65	914.40	-	38.1	31.75	22.33	2.3	-	23.39
										34			R104	1,000.13	930.28	965.20	-	41.4	34.93	24.82	2.3	-	24.95
										36			R105	1,057.28	987.43	1,022.35	-	41.4	34.93	24.82	2.3	-	31.49

GENERAL NOTE: End flanges to API 6D and API 600 use gaskets for equivalent pipe size under ASME/ANSI B16.5 or ASME B16.47 series A.

NOTE:

- 1) All dimensions are in mm.
- 2) R30 is suitable for lapped flanges only.
- 3) Class 720, 960 and 10000 flanges to API 6B are obsolete. Data are for information only.
- 4) The 23° surfaces on R and RX gaskets shall have a surface finish not rougher than 1.6 µm Ra (63 µin RMS).
- 5) R, H Variation in height throughout the entire circumference of any ring shall not exceed 0.5 mm within these tolerances.

Graphite Packing Rings

GRAPHITE is characterized by a high level of chemical resistance and thermal stability as well as an excellent sealing effect and constant elasticity. Regardless of temperature cycle this material will not be subject to cold flow, shrinkage or aging. GRAPHITE fulfills the purity requirements for seals in nuclear power station valves (content of soluble chlorides < 20 ppm).

Types

GRAPHITE foil material Approved for use in oxygen applications for pressures up to 250 bar and temperatures up to 200 °C by BAM (German Federal Institute for Material Testing, Berlin). Approved for use in food processing industries by the Chemical and Technical Testing Office, Stuttgart, Germany. Tested by DVGW (German Association of Gas and Water Industry) according to the KTW (plastics - drinking water) recommendations of the BGA (Federal . Health Office) for use as sealing elements D1 and D2.

GRAPHITE rings Preformed GRAPHITE rings are supplied in densities between 1,4 and 1,85 g/cm³.

GRAPHITE tape is used to make rings for repair purposes. In order to stabilize the material and to ensure ease of handling the material has a surface pattern and a W-profile.

GRAPHITE cover seals are supplied as preformed rings and have shown their advantages in self-sealing covers, e. g. heavy-duty valves, high-pressure feedwater preheaters. GRAPHITE remains elastic even with continually changing temperatures and pressures up to 200 N/mm² surface compression. It can bridge the large sealing gaps which occur in self-sealing covers up to 0,3 mm without difficulty.

Typical Forms:



Operating Conditions

Pressure: 1000 bar

Temperature: - 200°C to +550 °C1)

200°C to +700 °C2)

200°C to + 2500 °C3)

PH value: 0-14

1) most media and air

2) steam

3) inert gas

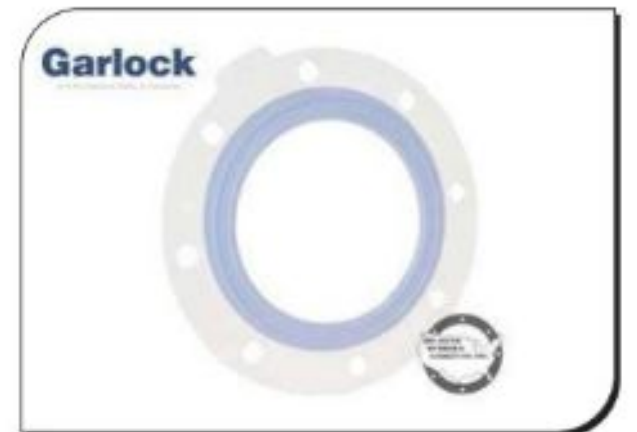
4. Media

Hot water and feed water, steam, heat transfer oils, hydrocarbons and many other media.

Exceptions: strongly oxidizing media.

PREMIUM GULF GASKET

Our Partners



PREMIUM GULF GASKET

“High Quality Gaskets based on International Standards”



PREMIUM GULF GASKET

SULTANATE OF OMAN