GASKONIX
ENGINEERING PVT. LTD.

ONE STATION FOR ALL INDUSTRIAL SEALING PRODUCTS

PRODUCT CATALOGUE

About Us

GASKONIX ENGINEERING PVT LTD is a one of the manufacturer and stockiest of corrosion prevention and protection products, serving critical sectors including Water & Wastewater, Oil & Gas, Industrial & Mechanical, and Chemical Pipeline industries. Our specialized sealing products are engineered to prevent corrosion and ensure long-term system integrity. Additionally, GASKONIX provides a range of safety products tailored to safeguard personnel, equipment, and the environment—manufactured to the highest quality standards to meet the evolving needs of our customers.

Our Mission

At GASKONIX ENGINEERING PVT LTD, we are dedicated to delivering superior gasket solutions, both standard and customized, that meet the highest standards of quality, reliability, and performance. We are committed to:

- Ensuring timely delivery
- Achieving total customer satisfaction
- Driving continuous improvement
- Leveraging technical expertise
- Maintaining a customer-focused approach

Our Vision

To be the preferred manufacturer and supplier of high-quality gaskets and sealing products across the Oil, Gas, Petrochemical, and related industries in the Middle East and parts of Europe/ America.

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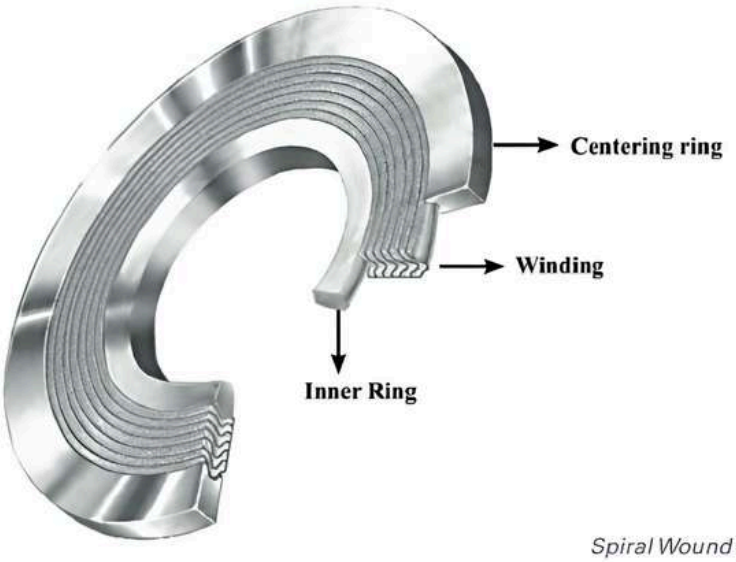
SPIRAL WOUND GASKET



Spiral Wound gasket.

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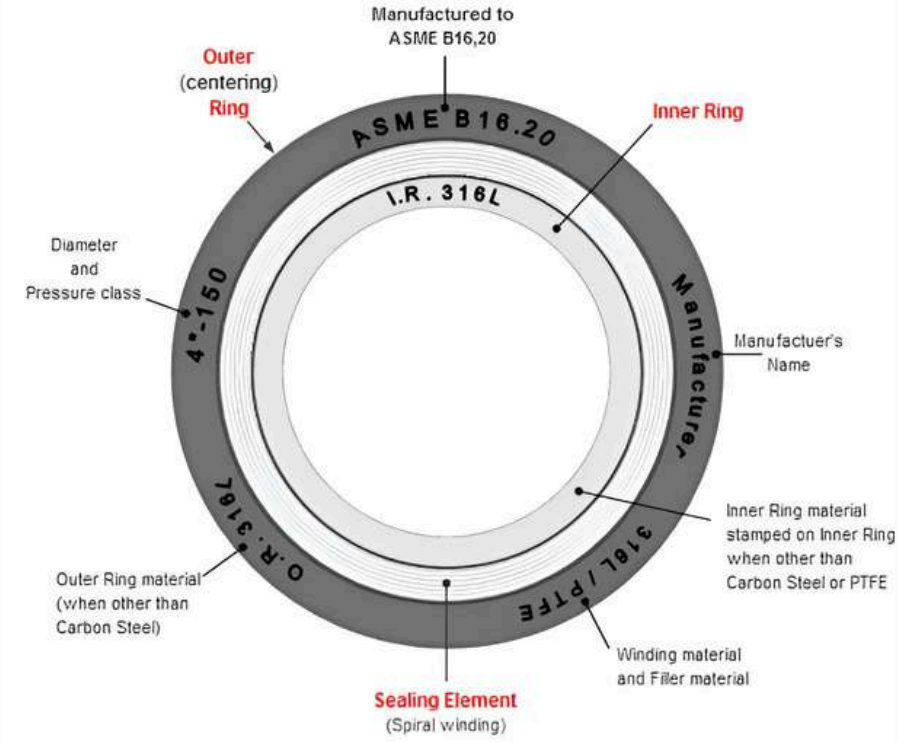
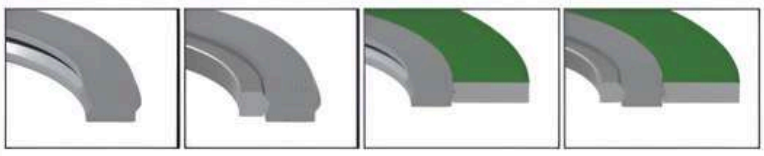
GASKET SEALING

GASKONIX'S Spiral wound Gaskets have the ability to recover under the action of fluctuating loads caused by process fluid pressure and temperature changes, flange face temperature variations.. flange rotation, bolt stress relaxation and creep.





Winding | Winding w/ Inner Ring | Winding w/ Centering Ring | Winding w/ Inner & Centering Ring

The Gasket sealing element consists of a pre-formed metallic winding strip with layers of a softer, more compressible sealing material which, during compression, is densified and flows to fill imperfections in the flange surfaces when the gasket is seated. The Metal Strip holds the Filler giving the gasket mechanical resistance and resilience.

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SURFACE FINISH

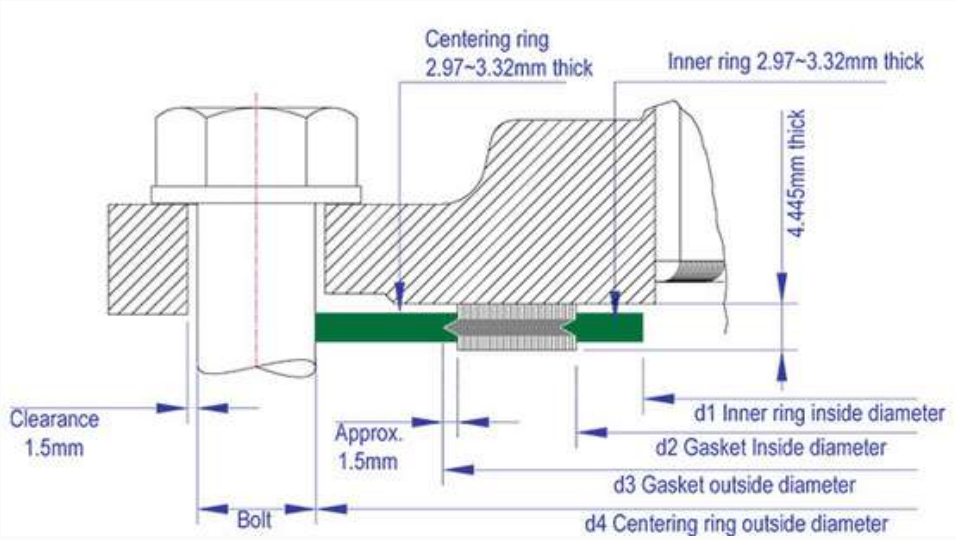
GASKONIX'S Spiral Wound Gaskets are capable of giving an excellent seal over a wide range of flange surface finishes, but as a general guide we suggest the following.

Duty	Roughness	
General	3.2 - 6.3µm	125-200µ"
Critical	3.2µm	125µ"
Vaccum	2.0µm	80µ"

THICKNESS OF SPIRAL WOUND GASKETS

GASKONIX'S Spiral Wound Gaskets are manufactured with a number of standard thicknesses which are designed to compress to a specific thickness to attain the best sealing performance and adaptation to the flanges. The Thickness is measured to the metallic windings not to the filler. The Standard Thickness are as follows:

Intial Thickness	Thickness after Installation
2.5mm	2.0mm
3.2mm	2.5mm
4.5mm	3.0-3.2mm
6.4mm	4.6-4.8mm
7.2mm	4.8-5.0mm



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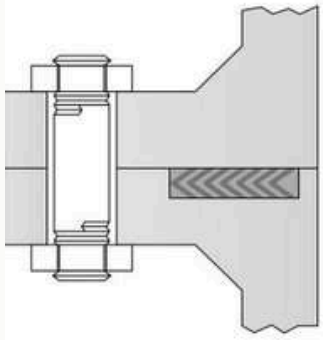
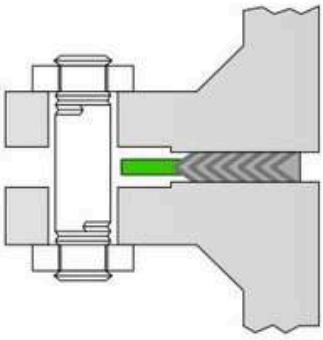
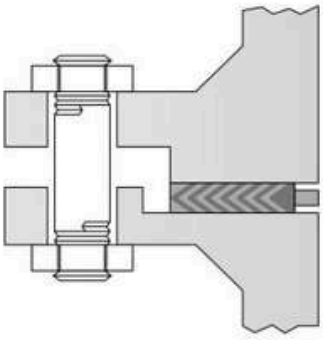
SPIRAL WOUND GASKET STYLES



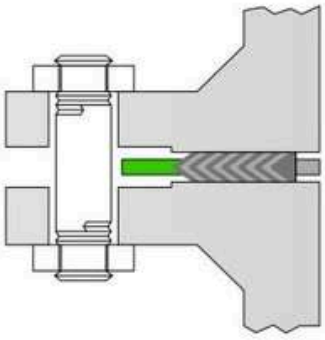
Type S
Spiral Element only



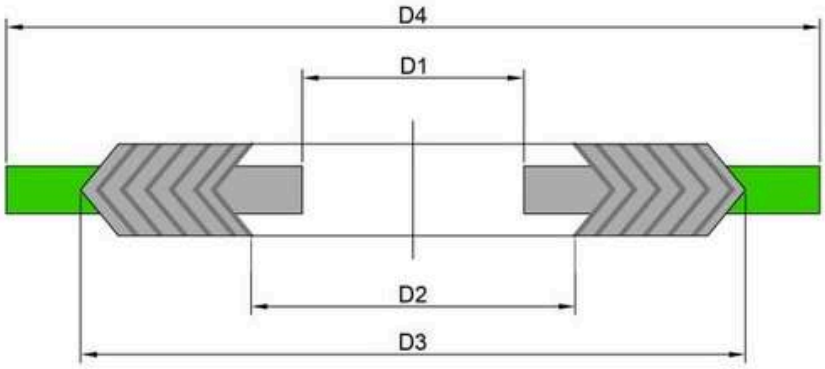
Type SO
Spiral Element with an Outer Guide Ring acting as a compression stop



Type SI
Spiral Element with an Inner Ring acting as a protective barrier



Type SOI
Most Common Requirement
Spiral Element with an Outer
and an Inner Ring



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TYPICAL SPECIFICATION

Material	Sealing Element	GRAPHITE / SS 316L GRAPHITE / SS 304 GRAPHITE / INCONEL GRAPHITE / DUPLEX PTFE / SS 316L MICA / SS316L
	Centering Ring	Carbon Steel /SS316L/INC 625 & INC 825 / SS304
	Inner Ring	SS316L /INC825/INC625/SS304
Max Temp	500°C	
Max Pressure	>400 bar.	
Suitability	For flanges to:	ASME B16.5 DIN Standards BS 10 JIS Standards And customs designs

GASKET FACTORS "M" AND "Y"

Material	Gasket Factory "M"	Min Design Seating Stress "Y" (psi)
Spiral Wound Metal Gasket with Non-asbestos Filler Stainless steel / Monel	**3**	10,000

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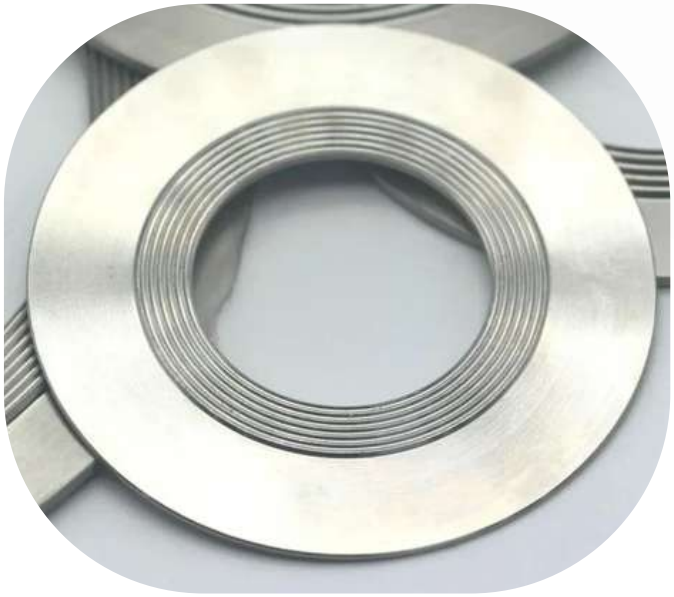
KAMMPROFILE GASKETS



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KAMMPROFILE GASKETS

The GASKONIX'S Kamprofile is a composite gasket which utilises a serrated metal core with a soft facing material. The metal core is a machined on each contact face with concentric serrations which provide high pressure areas, ensuring that the soft coating flows into any imperfections in the flange even at relatively low bolt loads. The soft facing material is engineered to compress in to the serrations on the core and form a thin film across the peaks creating the ideal sealing density in the grooves of the profile. The result is a gasket which combines the benefits of soft cut materials with the advantages of seal integrity associated with metallic gaskets. Expanded graphite is the most common facing material used for Kammprofile gaskets. However, other materials can be used, such as PTFE for chemically aggressive duties or mica for high temperature service. Kammprofile gaskets can also be manufactured from a range of core materials according to media compatibility and temperature considerations.

ADVANTAGES

- Heat exchanger and vessel applications
- High and low temperatures
- Pressures of up to 250 bar
- Low bolt loads
- Narrow flange widths
- Damaged flanges

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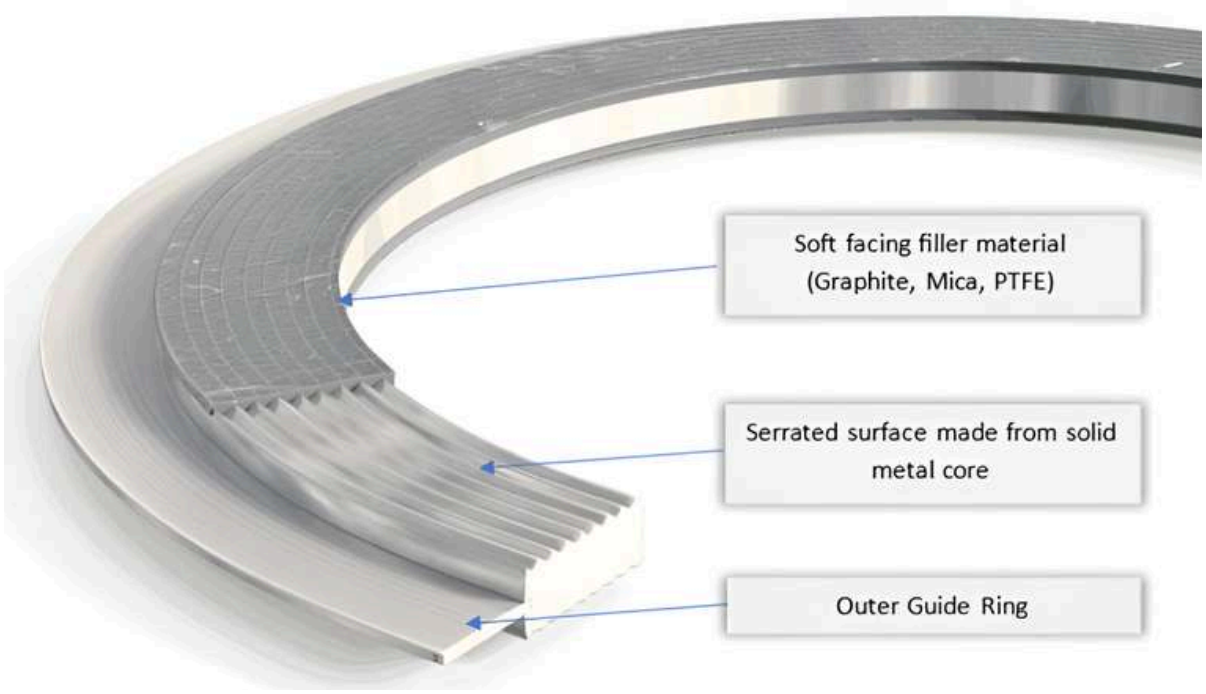
TYPICAL SPECIFICATIONS

CORE MATERIAL	316 /304 or Upon the Material request- 3.0, 4.0, 5.0mm	
FACING MATERIAL	Graphite /PTFE/MICA- 0.5mm (Upon the request)	
FACING DENSITY	1 g/cm3 (alternative 0.7g/cm3) (Depends on Facing Material)	
MAX. TEMPERATURE	550°C	
MAX. PRESSURE	>400 bar	
GASKET FACTOR	M Value = 4	Y Value = 10,000psi
SUITABILITY	For flanges to:	ASME B16.5 DIN standards, BS 10, JIS standards and custom designs



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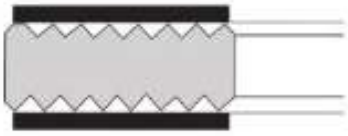
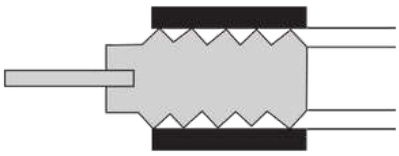
KAMMPROFILE TYPES

	Type WGR 	Used for vessels and heat exchangers. Lateral profiled joint without guide ring for male and female, tongue and groove and grooved flanges.
	Type IGR 	Used for standard pipework. Lateral profiled joint with guide ring for raised and flat face applications
	Type LGR 	Used for large diameter standard pipework. Lateral profiled joint with floating guide ring for raised and flat face

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RING JOINT GASKET (RTJ)

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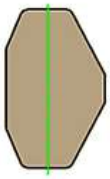
METALLIC RING JOINTS

Metallic ring joint gaskets are heavy duty, high-pressure gaskets largely used in off shore petrochemical applications. They are precision-engineered components designed to be used in conjunction with precision machined flanges. Our Ring Joints are manufactured according to ASME B16.20 or API 6A. The gasket material is selected on a number of grounds; primarily chemical compatibility with the media and the hardness of the flange. The gasket material ideally needs to be roughly 30 Brinell less than the flange material to ensure sufficient deformation of the gasket without damaging the flange facing. A number of ring joint styles are available designed for specific flange types as follows

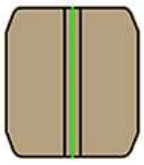
TYPE	NOMINAL PIPE SIZE	CLASS RINGS
R OVAL & OCTAGONAL	1/2" TO 24"	150 to 2500 ASME B16.20
	26" TO 36"	300 to 900 ASME B16.20
	1 1/2" TO 20"	Series A API 6A
RX	1 1/2" TO 24"	720 to 5000 ASME B16.20
	26" TO 36"	300 to 900 ASME B16.20
	1 1/2" TO 20"	Series A API 6A
BX	1 11/16" to 21 1/4"	5000 to 20000 ASME B16.20

Oval Type

Octagonal Type



RX Type



BX Type

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MATERIALS

The gasket material is selected on a number of grounds primarily; chemical compatibility with the media and the hardness of the flange. The gasket material ideally needs to be less than the flange material to ensure sufficient deformation of the gasket without damaging the flange facing. Some common materials are listed in the table below:

MATERIAL	RTJ HARDNESS (BRINELL)	TEMPERATURE	IDENTIFICATION
SOFT IRON	90	-60 to 500°C	D
LOW CARBON STEEL	120	-40 to 500°C	S
4-6% Cr ½% Mo	130	125 to 500°C	F5
304	160	-250 to 650°C	S304
316	160	-196 to 800°C	S316
321	160	-250 to 870°C	S321
347	160	-250 to 870°C	S347
410	170	-20 to 500°C	S410
Monel (N04400)	135	400°C	N04400
UNS N08904	180	400°C	904L
Inconel 625	200	+1000°C	625
Incoloy 825	160	+1000°C	825
Hastelloy C-276	200	+1000°C	C-276
Titanium	160	+540°C	TI

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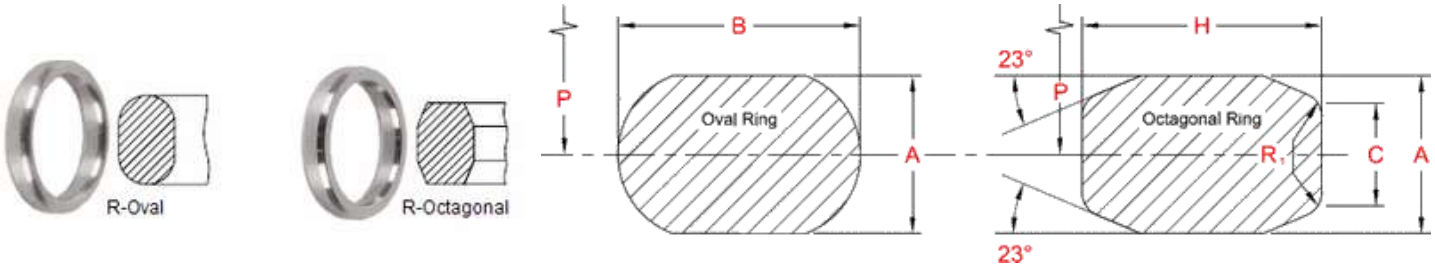
R-TYPE RING JOINTS

STANDARD STYLE R RING TYPE JOINTS These are manufactured in accordance with ASME B16.20 or API 6A. Available in both oval and octagonal configurations, both types are interchangeable on the modern octagonal type grooved flanges. As with all solid metal Ring Type Joints including Style R, it is recommended to replace the ring when flanged connection is broken.



DIMENTIONAL DATA - R TYPES

Surface finish of the Style R Ring Type Joint sealing faces (radiused ends of an Oval and the 23° angled faces of an Octagonal shape) shall not be greater than 1.6µm Ra/ 63µin RMS. GASKONIX Style R Ring Type Joints can be manufactured in accordance with all relevant standards to suit the following flange designations:

- API 6A
- ASME B16.5
- ASME B16.47
- SERIES A BS1560

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STYLE R - DIMENTIONAL DATA

RING NUMBER	PRESSURE CLASS RATINGS								PITCH DIA. OF RING	WIDTH OF RING	HEIGHT OF RING		APPROX. DIST. BETWEEN MADE UP FLANGES
	ASME B 16.5 & ASME B16.47 SERIES A					API 6A (psi)					OVAL	OCTAG	
	150	300/600	900	1500	2500	2000	3000	5000					
	NOMINAL PIPE SIZES												
R 11	-	1/2	-	-	-	-	-	-	34.14	6.35	11.2	9.7	-
R 12	-	-	1/2	1/2	-	-	-	-	39.70	7.95	14.2	12.7	-
R 13	-	3/4	-	-	1/2	-	-	-	42.88	7.95	14.2	12.7	-
R 14	-	-	3/4	3/4	-	-	-	-	44.45	7.95	14.2	12.7	-
R 15	1	-	-	-	-	-	-	-	47.63	7.95	14.2	12.7	-
R 16	-	1	1	1	3/4	-	-	-	50.80	7.95	14.2	12.7	-
R 17	1 ¼	-	-	-	-	1	1	1	57.15	7.95	14.2	12.7	-
R 18	-	1 ¼	1 ¼	1 ¼	1	1 ¼	1 ¼	1 ¼	60.33	7.95	14.2	12.7	-
R 19	1 ½	-	-	-	-	-	-	-	65.10	7.95	14.2	12.7	-
R 20*	-	1 ½	1 ½	1 ½	-	1 ½	1 ½	1 ½	68.28	7.95	14.3	12.7	4.1
R 21	-	-	-	-	1 ¼	-	-	-	72.24	11.13	17.5	16.0	-
R 22	2	-	-	-	-	-	-	-	82.55	7.95	14.2	12.7	-
R 23*	-	2	-	-	1 ½	-	-	-	82.55	11.13	17.5	15.9	4.8
R 24*	-	-	2	2	-	-	2	2	95.25	11.13	17.5	15.9	4.8
R 25	2 ½	-	-	-	-	-	-	-	101.60	7.95	14.2	12.7	-
R 26*	-	2 ½	-	-	2	2 ½	-	-	101.60	11.13	17.5	15.9	4.8
R 27*	-	-	2 ½	-	-	-	2 ½	2 ½	107.95	11.13	17.15	15.19	4.8
R 28	-	-	-	-	2 ½	-	-	-	111.13	12.70	19.1	17.5	-
R 29	3	-	-	-	-	-	-	-	114.30	7.95	14.2	12.7	-
R 30(a)	-	3	-	-	-	-	-	-	117.48	11.13	17.5	16.0	-
R 31*	-	3	3	-	-	3	3	-	123.83	11.13	17.5	15.9	4.8
R 32	-	-	-	-	3	-	-	-	127.00	12.70	19.1	17.5	-
R 33	3 ½	-	-	-	-	-	-	-	131.78	7.95	14.2	12.7	-
R 34	-	3 ½	-	-	-	-	-	-	131.78	11.13	17.5	16.0	-
R 35*	-	-	-	3	-	-	-	3	136.53	11.13	17.5	15.9	4.8
R 36	4	-	-	-	-	-	-	-	149.23	7.95	14.2	12.7	-
R 37*	-	4	4	-	-	4	4	3 ½	149.23	11.13	17.5	15.9	4.8
R 38	-	-	-	-	4	-	-	-	157.18	15.88	22.44	20.6	-
R 39*	-	-	-	4	-	-	-	4	161.93	11.13	17.5	16.0	4.8
R 40	5	-	-	-	-	-	-	-	171.45	7.95	14.2	12.7	-
R 41*	-	5	5	-	-	5	5	-	180.98	11.13	17.5	15.9	-
R 42	-	-	-	-	5	-	-	-	190.50	19.05	25.4	23.9	-
R 43	6	-	-	-	-	-	-	-	193.68	7.95	14.2	12.7	-
R 44*	-	-	-	5	-	-	-	5	193.68	11.13	17.5	15.9	4.8
R 45*	-	6	6	-	-	6	6	-	211.15	11.13	17.5	15.9	4.8
R 46*	-	-	-	6	-	-	-	6	211.15	12.70	19.1	17.5	4.8
R 47*	-	-	-	-	6	-	-	6	228.60	19.05	25.4	23.9	4.1
R 48	8	-	-	-	-	-	-	-	247.65	7.95	14.2	12.7	-
R 49*	-	8	8	-	-	8	8	-	269.88	11.13	17.5	15.9	4.8
R 50*	-	-	-	8	-	-	-	8	269.88	15.88	22.4	20.6	4.1

NOTE - *Denotes ring number specified in API 6A

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STYLE R - DIMENTIONAL DATA

RING NUMBER	PRESSURE CLASS RATINGS								PITCH DIA. OF RING	WIDTH OF RING	HEIGHT OF RING		APPROX. DIST. BETWEEN MADE UP FLANGES
	ASME B 16.5 & ASME B16.47 SERIES A					API 6A (psi)					OVAL	OCTAG	
	150	300/600	900	1500	2500	2000	3000	5000					
	NOMINAL PIPE SIZES												
R 51	-	-	-	-	8	-	-	-	279.40	22.23	28.7	26.9	-
R 52	10	-	-	-	-	-	-	-	304.80	7.95	14.2	12.7	-
R 53*	-	10	10	-	-	10	10	-	323.85	11.13	17.5	15.9	4.8
R 54*	-	-	-	10	-	-	-	10	323.85	15.88	22.4	20.6	4.1
R 55	-	-	-	-	10	-	-	-	342.90	28.58	36.6	35.1	-
R 56	12	-	-	-	-	-	-	-	381.00	7.95	14.2	12.7	-
R 57*	-	12	12	-	-	12	12	-	381.00	11.13	17.5	15.9	4.8
R 58	-	-	-	12	-	-	-	-	381.00	22.23	28.7	26.9	-
R 59	14	-	-	-	-	-	-	-	381.88	7.95	14.2	12.7	-
R 60	-	-	-	-	12	-	-	-	406.40	31.75	39.6	38.1	-
R 61	-	14	-	-	-	14	14	-	419.10	11.13	17.5	16.10	-
R 62	-	-	14	-	-	-	-	-	419.20	15.88	22.4	20.6	-
R 63*	-	-	-	14	-	-	-	-	419.00	25.40	33.3	31.8	5.6
R 64	16	-	-	-	-	-	-	-	454.03	7.95	14.2	12.7	-
R 65*	-	16	-	-	-	16	-	-	469.90	11.13	17.5	15.9	4.8
R 66*	-	-	16	-	-	-	16	-	469.90	15.88	22.4	20.6	4.1
R 67	-	-	-	16	-	-	-	-	517.53	28.58	36.6	35.1	-
R 68	18	-	-	-	-	-	-	-	533.40	7.95	14.2	12.7	-
R 69*	-	18	-	-	-	18	-	-	533.40	11.13	17.5	15.9	4.8
R 70*	-	-	18	-	-	-	18	-	533.40	19.05	25.4	23.9	4.8
R 71	-	-	-	18	-	-	-	-	533.40	28.58	36.6	35.1	-
R 72	20	-	-	-	3	-	-	-	558.80	7.95	14.2	12.7	-
R 73*	-	20	-	-	-	20	-	-	584.20	12.70	19.1	17.5	3.3
R 74*	-	-	20	-	-	-	20	-	584.20	19.05	25.4	23.9	4.8
R 75	-	-	-	20	-	-	-	-	584.20	31.75	39.6	38.1	-
R 76	24	-	-	-	-	-	-	-	673.10	7.95	14.2	12.7	-
R 77	-	24	-	-	-	-	-	-	692.15	15.88	22.4	20.6	-
R 78	-	-	24	-	-	-	-	-	692.15	25.40	33.3	31.8	-
R 79	-	-	-	24	-	-	-	-	692.15	34.93	44.5	41.4	-
R 80	22	-	-	-	-	-	-	-	615.95	7.95	-	12.7	-
R 81	-	22	-	-	-	-	-	-	635.00	14.30	-	19.1	-
R 82*	-	-	-	-	-	-	-	-	57.15	11.13	-	15.9	4.8
R 84*	-	-	-	-	-	-	-	-	63.50	11.13	-	15.9	4.8
R 85*		-	-	-	-	-	-	-	79.38	12.70	-	17.5	3.3
R 86*	-	-	-	-	-	-	-	-	90.50	15.88	-	20.6	4.1
R 87*	-	-	-	-	-	-	-	-	100.03	15.88	-	20.6	4.1
R 88*	-	-	-	-	-	-	-	-	123.83	19.05	-	23.9	4.8
R 89*	-	-	-	-	-	-	-	-	114.30	19.05	-	23.9	4.8
R 90*	-	-	-	-	-	-	-	-	155.58	22.23	-	26.9	4.8
R 91*	-	-	-	-	-	-	-	-	260.35	31.75	-	38.1	4.1

NOTE - *Denotes ring number specified in API 6A

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STYLE R - DIMENTIONAL DATA

RING NUMBER	PRESSURE CLASS RATINGS								PITCH DIA. OF RING	WIDTH OF RING	HEIGHT OF RING		APPROX. DIST. BETWEEN MADE UP FLANGES
	ASME B 16.5 & ASME B16.47 SERIES A					API 6A (psi)					OVAL	OCTAG	
	150	300/600	900	1500	2500	2000	3000	5000					
	NOMINAL PIPE SIZES												
R 92	-	-	-	-	8	-	-	-	228.60	11.13	17.5	16.0	-
R 93	-	26	-	-	-	-	-	-	749.30	19.05	-	23.9	-
R 94	-	28	-	-	-	-	-	-	800.10	19.05	-	23.9	-
R 95	-	30	-	-	-	-	-	-	857.25	19.50	-	23.9	-
R 96	-	32	-	-	-	-	-	-	914.40	22.33	-	26.9	-
R 97	-	34	-	-	-	-	-	-	965.20	22.33	-	26.9	-
R 98	-	36	-	-	-	-	-	-	1022.35	-	22.23	-	-
R 99*	-	-	-	-	-	-	-	-	234.95	11.13	-	15.9	4.8
R 100	-	-	26	-	-	-	-	-	749.30	28.58	-	35.1	-
R 101	-	-	28	-	-	-	-	-	800.10	31.75	-	38.1	-
R 102	-	-	30	-	-	-	-	-	857.25	31.75	-	38.1	-
R 103	-	-	32	-	-	-	-	-	914.40	31.75	-	38.1	-
R 104	-	-	34	-	-	-	-	-	965.20	34.93	-	38.1	-
R 105	-	-	36	-	-	-	-	-	1022.35	-	34.93	-	-

a) R30 Ring type joint used for lapped joint only. Dimensions in mm. Figures stated are for information only. Please refer to the current version of the original standards for dimensional information.

Tolerances :

A = width of ring +/-0.20.

B, H = height of ring.

P = average pitch diameter of ring +/-0.18.

R1 = = radius in ring +/-0.5. 23 deg = angle +/-0 deg 30 min

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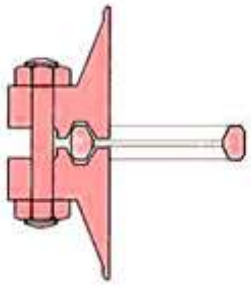
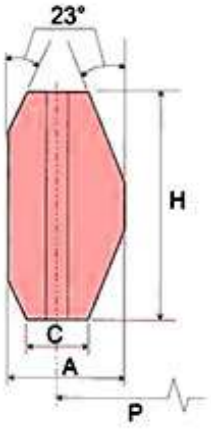
RX - TYPE RING JOINTS

The Style RX is an adaptation of the standard Style R which is energised when the assembly is pressurised. The RX is designed to fit the same groove design as a standard Style R, making the joints interchangeable, however consideration should be given to the difference in finished make up distance. The geometry of this modified design induces a pressure energising effect when the assembly is pressurised, improving the efficiency of the seal.





Surface finish of the Style RX Ring Type Joint sealing faces (23° angled faces) shall not be greater than 1.6µm Ra / 63µin RMS.

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STYLE RX - DIMENTIONAL DATA

RING NUMBER	PRESSURE CLASS RATINGS - API 6A (psi)			PITCH DIA. OF RING	OUTSIDE DIAMETER	WIDTH OF RING	WIDTH OF FLAT	HEIGHT OF OUTSIDE BEVEL	HEIGHT OF RING	HOLE SIZE (NOTE 1 & 2)	APPROX DIST. BETWEEN MADE UP FLANGES (mm)
	2000	3000	5000								
	NOMINAL PIPE SIZE (INCHES)			P	OD	A	C	D	H	E	
RX 20	1 1/2	1 1/2	1 1/2	68.26	76.20	8.74	4.62	3.18	19.05	-	9.7
RX 23	2	-	-	82.55	93.27	11.91	6.45	4.24	25.40	-	11.5
RX 24	-	2	2	95.25	105.97	11.91	6.45	4.24	25.40	-	11.5
RX 25	-	-	3 1/8	101.60	109.55	8.74	4.62	3.18	19.05	-	-
RX 26	2 1/2	-	-	101.60	111.91	11.91	6.45	4.24	25.40	-	11.9
RX 27	-	2 1/2	2 1/2	107.95	118.26	11.91	6.45	4.24	25.40	-	11.9
RX 31	3	3	-	123.83	134.54	11.91	6.45	4.24	25.40	-	11.9
RX 35	-	-	3	136.53	147.24	11.91	6.45	4.24	25.40	-	11.9
RX 37	4	4	-	149.23	159.94	11.91	6.45	4.24	25.40	-	11.9
RX 39	-	-	4	161.93	172.64	11.91	6.45	4.24	25.40	-	11.9
RX 41	5	5	-	180.98	191.69	11.91	6.45	4.24	25.40	-	11.9
RX 44	-	-	5	193.68	204.39	11.91	6.45	4.24	25.40	-	11.9
RX 45	6	6	-	211.15	221.84	11.91	6.45	4.24	25.40	-	11.9
RX 46	-	-	6	211.15	222.25	13.49	6.68	4.78	28.58	-	11.9
RX 47	-	-	8	228.60	245.26	19.84	10.34	6.88	41.28	-	18.3
RX 49	8	8	-	269.88	280.59	11.91	6.45	4.24	25.40	-	11.9
RX 50	-	-	8	269.88	283.36	16.66	8.51	5.28	31.75	-	11.9
RX 53	10	10	-	323.85	334.57	11.91	6.45	4.24	25.40	-	11.9
RX 54	-	-	10	323.85	337.34	16.66	8.51	5.28	31.75	-	11.93
RX 57	12	12	-	381.00	391.72	11.91	6.45	4.24	25.40	-	11.9
RX 63	-	-	14	419.10	441.73	27.00	14.78	8.46	50.80	-	21.3
RX 65	16	-	-	469.90	480.62	11.91	6.45	4.24	25.40	-	11.9
RX 66	-	16	-	469.90	483.39	16.66	8.51	5.28	31.75	-	11.9
RX 69	18	-	-	533.40	544.12	11.91	6.45	4.24	25.40	-	11.9
RX 70	-	18	-	533.40	550.06	19.84	10.34	6.88	41.28	-	18.3
RX 73	20	-	-	584.20	596.11	13.49	6.68	5.28	31.75	-	15.0
RX 74	-	20	-	584.20	600.86	19.84	10.34	6.88	41.28	-	18.3
RX 82 (1)	-	-	-	57.15	67.87	11.91	6.45	4.24	25.40	1.5	11.9
RX 84 (1)	-	-	-	63.50	74.22	11.91	6.45	4.24	25.40	1.5	11.9
RX 85 (1)	-	-	-	79.38	90.09	13.49	6.68	4.24	25.40	1.5	9.7
RX 86 (1)	-	-	-	90.50	103.58	15.09	8.51	4.78	28.58	2.3 (2.4)	9.7
RX 87 (1)	-	-	-	100.03	113.11	15.09	8.51	4.78	28.58	2.3 (2.4)	9.7
RX 88 (1)	-	-	-	123.83	139.29	17.48	10.34	5.28	31.75	3.0	9.7
RX 89 (1)	-	-	-	114.30	129.77	18.26	10.34	5.28	31.75	3.0	9.7
RX 90 (1)	-	-	-	155.58	74.63	19.84	12.17	7.42	44.45	3.0	18.3
RX 91 (1)	-	-	-	260.35	286.94	30.18	19.81	7.54	45.24	3.0	19.1
RX 99	-	-	-	234.95	245.67	11.91	6.45	4.24	25.40	-	11.9
RX 201	-	-	1 3/8	46.05	51.46	5.74	3.20	1.45 (3)	11.30	-	-
RX 205	-	-	1 13/16	57.15	62.31	5.56	3.05	1.83 (3)	11.10	-	-
RX 210	-	-	2 9/16	88.90	97.64	9.53	5.41	3.18 (3)	19.05	-	-
RX 215	-	-	4 1/16	130.18	140.89	11.91	5.33	4.24 (3)	25.40	-	-

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GENERAL NOTES

Please refer to the current version of the original standards for dimensional information. Tolerances OD = outside diameter of ring, +0.51, 0.00. A = width of ring, + 0.20, - 0.00 - Variation in width throughout the entire circumference of any ring shall not exceed 0.10 within these tolerances. C = width of flat, + 0.15, - 0.00. D = height of outside bevel, +0.00, - 0.76. H = height of ring, + 0.20, - 0.00 - Variation in height throughout the entire circumference of any ring shall not exceed 0.10 within these tolerances. R1 = radius of ring, +/- 0.5. 23 deg = angle, +/- 0 deg 30 min. E = hole size. +/- 0.5

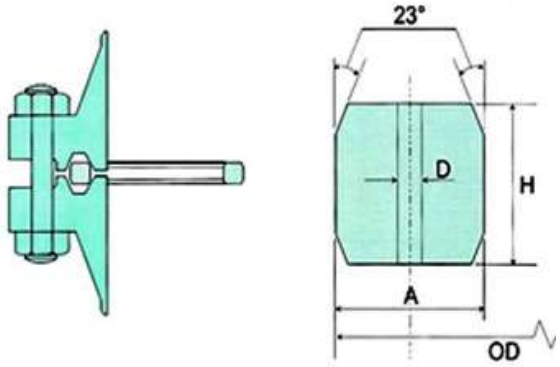
NOTES

1. Rings RX-82 through RX-91 only require one pressure passage hole as illustrated. The centreline of the hole shall be located at the midpoint of dimension C.
2. Tolerance on these dimensions is + 0.00, - 0.38.

BX - TYPE RING JOINTS

The Style BX energized Ring Type Joints, manufactured in accordance with ASME B16.20, API 6A and API 17D, are designed for use on API 6BX flanges on pressure systems rated up to 20,000 psi. When correctly fitted, the style BX gasket allows virtual face to face contact of the flange faces which means that the gasket is fully confined on both the inner and outer diameters. All BX gaskets incorporate a pressure balance hole to ensure equalization of pressure which may be generated in the grooves.

DIMENTIONAL DATA - BX TYPES



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RING NUMBER	NOMINAL SIZE	PRESSURE CLASS RATINGS – API6BX FLANGES						OUTSIDE DIAMETER	HEIGHT OF RING	WIDTH OF RING	OUTSIDE DIAMETER OF FLAT	WIDTH OF FLAT	HOLE SIZE (note 1 & 2)
		2000	3000	5000	10000	15000	20000						
		NOMINAL PIPE SIZES (inches)						OD	H	A	ODT	C	D
BX 150	43	-	-	-	1 11/16	1 11/16	-	72.19	9.30	9.30	70.87	7.98	1.5(1.6)
BX 151	46	-	-	-	1 13/16	1 13/16	1 13/16	76.40	9.63	9.63	75.03	8.26	1.5(1.6)
BX 152	52	-	-	-	2 1/16	2 1/16	2 1/16	84.68	10.24	10.24	83.24	8.79	1.5(1.6)
BX 153	65	-	-	-	2 9/16	2 9/16	2 9/16	100.94	11.38	11.38	99.31	9.78	1.5(1.6)
BX 154	78	-	-	-	3 1/16	3 1/16	3 1/16	116.84	12.40	12.40	115.09	10.64	1.5(1.6)
BX 155	103	-	-	-	4 1/16	4 1/16	4 1/16	147.96	14.22	14.22	145.95	12.22	1.5(1.6)
BX 156	179	-	-	-	7 1/16	7 1/16	7 1/16	237.92	18.62	18.62	235.28	15.98	3.0(3.2)
BX 157	228(229)	-	-	-	9	9	9	294.46	20.98	20.98	291.49	18.01	3.0(3.2)
BX 158	279	-	-	-	11	11	11	352.04	23.14	23.14	348.77	19.86	3.0(3.2)
BX 159	346	-	-	-	13 5/8	13 5/8	13 5/8	426.72	25.70	25.70	423.09	22.07	3.0(3.2)
BX 160	346	-	-	13 5/8	-	-	-	402.59	23.83	13.74	399.21	10.36	3.0(3.2)
BX 161	425(422)	-	-	16 3/4	-	-	-	491.41	28.07	16.21	487.45	12.24	3.0(3.2)
BX 162	425(422)	-	-	16 3/4	16 3/4	16 3/4	-	475.49	14.22	14.22	473.48	12.22	1.5(1.6)
BX 163	476	-	-	18 3/4	-	-	-	556.16	30.10	17.37	551.89	13.11	3.0(3.2)
BX 164	476	-	-	-	18 3/4	18 3/4	-	570.56	30.10	24.59	566.29	20.32	3.0(3.2)
BX 165	540	-	-	21 1/4	-	-	-	624.71	32.03	18.49	620.19	13.97	3.0(3.2)
BX 166	540	-	-	-	21 1/4	-	-	640.03	32.03	26.14	635.51	21.62	3.0(3.2)
BX 167	679 (680)	26 3/4	-	-	-	-	-	759.36	35.86 (3)	13.11	754.28	8.03	1.5(1.6)
BX 168	679 (680)	-	26 3/4	-	-	-	-	765.25	35.86 (3)	16.05	760.17	10.97	1.5(1.6)
BX 169	130	-	-	-	5 1/8	-	-	173.51	15.85	12.93	171.27	10.69	1.5(1.6)
BX 170	228 (168)	-	-	-	6 5/8	6 5/8	-	218.03	14.22	14.22	216.03	12.22	1.5(1.6)
BX 171	279 (218)	-	-	-	8 9/16	8 9/16	-	267.44	14.22	14.22	265.43	12.22	1.5(1.6)
BX 172	346 (283)	-	-	-	11 5/32	11 5/32	-	333.07	14.22	14.22	331.06	12.22	1.5(1.6)
BX 303	762	30	30	-	-	-	-	852.75	37.95	16.97	847.37	11.61	1.5(1.6)

a) Dimensions in mm.
b) Figures stated are for information only. Please refer to the current version of the original standards for dimensional information.
c) Radius R, shall be 8% to 12% of the gasket height, H.
d) Nominal sizes shown in parenthesis are as listed in ASME B16.20

TOLARANCES

OD = outside diameter of ring, + 0.00, - 0.15 H = height of ring, + 0.20, - 0.00 - Variation in height throughout the entire circumference of any ring shall not exceed 0.10 within these tolerances. A = width of ring, + 0.20, - 0.00 - Variation in width throughout the entire circumference of any ring shall not exceed 0.10 within these tolerances. ODT = outside diameter of flat, +/- 0.05 C = width of flat, + 0.15, - 0.00 D = hole size, +/-0.5 R = radius of ring [see general note (c)] 23 deg = angle, +/- 0 deg 15 min

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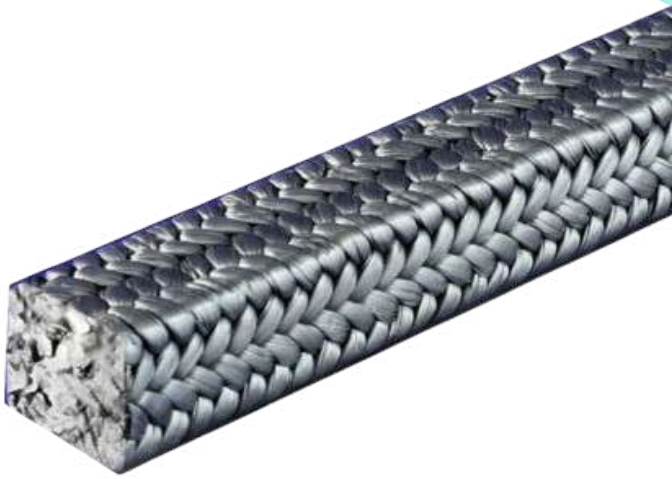
GLAND PACKING



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GX450CBINC

Material:
Manufactured using expanded graphite braided packing each incorporating a fine Inconel wire, to produce a valve compression packing of square cross-section with added mechanical strength.

Application:
This is a cost effective high pressure valve packing. It is a high performance valve packing for high pressure, high temperature application offering excellent sealing and operational reliability for both Original Equipment Manufacturers and plant users alike. The inclusion of Inconel wire reinforcements ensures that the packing has excellent dimensional stability and will operate under high stress conditions. Do not use with Chromium Trioxide, nitric acid and sulphuric acid.

Typical applications
HP steam valves, Petro-chemical valves and Power generation valves

Service Capabilities

Operating Temperature	–200 to 430°C
In saturated steam	upto 650°C
pH capability	0 – 14
Max static Pressure	300 bar

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously.

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GXB450C-PV

Material:

A high purity, high performance, graphite based multiservice packing for both valve and pump applications. The base graphite yarn means the packing has excellent capability in dynamic applications and the additional graphite lubricant acts as a further blocking agent to improve sealing

Application:

Virtually resistant to all media over an extensive range of pressures and temperatures. This braided yielding a packing that is consistently dense with excellent volumetric stability.

Service Capabilities

Min. Temperature	-240˚C Max.
Steam Temperature	650˚C Max.
Temperature	430˚C Max.
Static Pressure	150 Bar Max.
Dynamic Pressure	8 Bar Max.
Speed	30 m/s
pH Range	0-14

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously.

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GXB450C-RPV

Material:
Graphite encapsulated PTFE yarn

Application:
New generation, multi-service packing for both pump & valve applications. Non Asbestos PTFE with encapsulated graphite providing excellent sealing & reliability in high performance duties. Can be used in virtually all media including strong acids and alkalis. It has very good heat dissipating properties and is easy on sleeves and shafts. Very good in mild slurries as well as on vacuum and boiler feed pumps. It requires only minimal gland loading to effect a satisfactory seal.

Typical applications
Valve and pump packing in the Pulp & Paper, Mining, Marine, Agriculture, Sugar and Water Supply industries.

Service Capabilities

Operating Temperature	–200 to 280°C
pH capability	0 – 14
Max rotary Pressure	30 bar
Max static Pressure	200 bar
Max rotary Speed	20 m/sec
Max reciprocating pressure	100 bar
Max reciprocating speed	3 m/sec

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously.

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GXB260CPV/P

Material:
PTFE Braided yarn

Application:
An excellent choice for plant wide use especially when a clean, non-contaminating packing is required with a very high degree of chemical resistance. Can be used in virtually all media including strong acids and alkalis. Also suitable for use on Oxygen valve applications. Suitable for Oxygen service in valves up to 20 bar pressure, 600C for gaseous oxygen. For liquid oxygen there is no limitation other than the general limitations of the packing. Water and food compatible. Yarns are FDA compliant.

Service Capabilities

Operating Temperature	–240 to 260°C
pH capability	0 – 14
Max rotary Pressure	20 bar
Max static Pressure	200 bar
Max rotary Speed	3m/sec
Max reciprocating pressure	100 bar
Max reciprocating speed	2 m/sec

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously.

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GXT450C-G100

Material:

Exfoliated graphite crinckled tape (adhesive)

Application:

Virtually resistant to all media with the exception of strong oxidisers. Can be fitted directly into the valve stuffing box and compressed to create a packing suitable for high temperature and pressure applications. Can be supplied plain or with adhesive backing.

Service Capabilities

Operating Temperature	–200 to 450°C
pH capability	0 – 14
Density	1.0g/cm3
Purity	>98%

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously.

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GXB260C-V/P

Material:

PTFE filaments incorporating a graphite based lubricant.

Application:

Virtually resistant to all media including strong acids and alkalis. Braided, PTFE filaments, which have been specially treated to incorporate a graphite based lubricant. Due to its wide service capabilities This packing offers the user a packing material with excellent sealing life and the option of reducing the variety of packings that must be held as stock.

Service Capabilities

Operating Temperature	–240 to 260°C
pH capability	0 – 14
Max rotary Pressure	20 bar
Max static Pressure	200 bar
Max rotary Speed	3m/sec
Max reciprocating pressure	100 bar
Max reciprocating speed	2 m/sec

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously.

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GKF450-ST

Material:

Gaskonix die formed ring are made of low-Sulphur expanded graphite without any filler and binders. They are compressed in precise moulding tools to the required density. Due to the high purity of the material, no special corrosion protection is required. In general, it has square section and V-Shaped and Wedge-shaped section.

Types:

- ***PURE GRAPHITE RINGS***
- ***GRAPHITE BRAIDED SPLIT RING/PTFE BRAIDED SPLIT RING***
- ***GRAPHITE RING WITH STEEL CAP***

Application:

>Bear violent alteration of temperature and pressure.
>It is ideal packing for valve and static seal in almost all applications.
>Can be used as stand-alone packing or combination other packing rings.

Service Capabilities

Operating Temperature	–200 to 450
Steam temperature	up to 650
Max rotary pressure	20 Bar
Max Surface Speed	5 m/s
Max valve pressure	350 Bar
Max valve spindle speed	3 m/s
Max reciprocating pressure	20 Bar
Max reciprocating speed	2 m/s
pH capability	0 – 14
Density	1.0g/cm³
Purity	>98%

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously.

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Gaskonix lantern ring is a perforated hollow ring located near the center of the stuffing box of a pump. Despite its simplistic appearance, it plays a crucial role in the successful operation of a pump system.

The Lantern Ring's Role

Lantern rings simultaneously serve three main purposes:

Protection — The term lantern ring comes from the primary use of the word lantern. A lantern is a vessel or device that covers up or protects a light source. Lantern rings help protect the stuffing box by allowing flush water or pressure to enter. They also keep contaminants out. If the material that is being pumped or any other foreign matter enters the stuffing box, it could destroy the packing or damage the shaft or stuffing box.

Outlet for cooling — Lantern is also an architectural design term for a structure on top of a roof or in an attic that allows for ventilation. These structures allow buildings to breathe. Lantern rings provide an opening and assist cooling in the stuffing box. This keeps the system from being completely closed off.

Lubrication — Another main function of the lantern ring is to facilitate lubrication. The fluid entering the lantern ring lubricates the packing. This reduces friction against the shaft. In addition, lubrication helps reduce wear of the machine parts and the amount of excess heat generated within the system.

Only Used with Packing

In these three applications, lantern rings are only used in conjunction with packing. It is a crucial element, because packing tends to generate heat. Heat increases wear that could shorten the life of the packing and the shaft. Placing a lantern ring between packing rings extends the life of the packing, the stuffing box, and the shaft. Ultimately, this increases the lifespan of the whole system long term.

Material we offer:

- PTFE
- PEEK
- Stainless Steel
- BRASS
- ALUMINIUM

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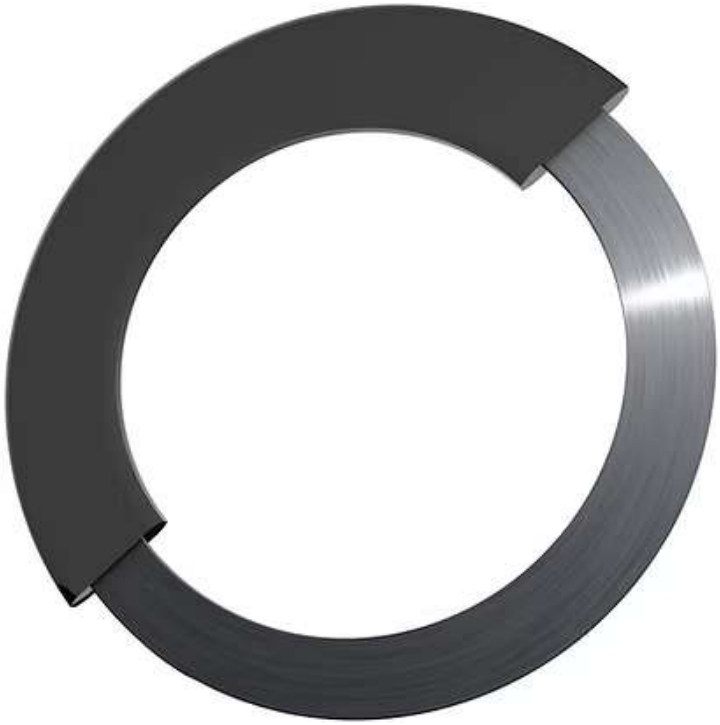
RUBBER STEEL INSERT GASKET



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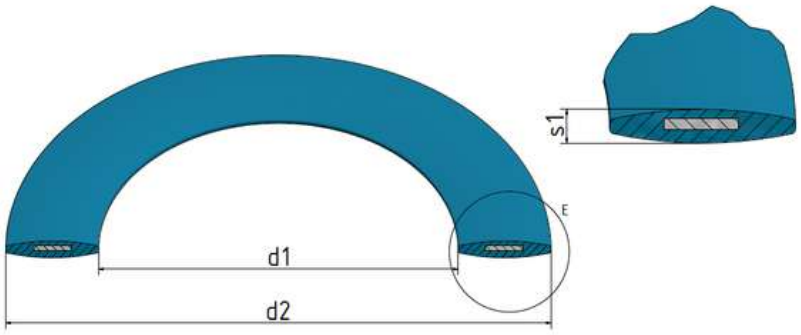

G-SI BASIC

G-SI Basic - Rubber-steel gaskets Profile G-SI Basic Model

The rubber-steel gasket Profile G-SI Basic consists of a steel ring (1.0330) which is surrounded on all sides by rubber. The steel ring is therefore protected from corrosion and media. Vulcanisation guarantees a high level of adhesive strength between the rubber and the steel ring.

Material

»Sealing ring: EPDM (Peroxide cured/Sulphar cured)
»Insert: St 37 galvanized, chromated or stainless steel

Operating range

»Pressure: p = 64 bar
»Continuous operation: t = −30 °C ... +120 °C
»a few hours: t = −30 °C ... +150 °C

Advantages

»The outer ring (EPDM) can be reused after replacement
»Uniform distribution of the surface pressure

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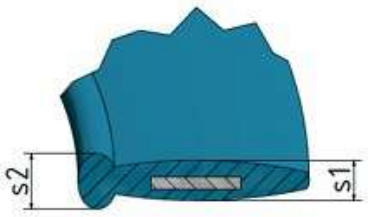

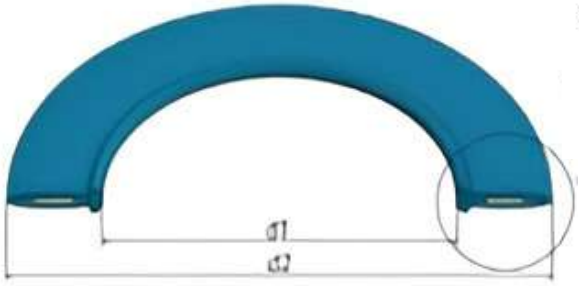

G-SI-PI

G-SI-PI - Rubber-steel gaskets O-ring Profile

The rubber-steel gasket O-ring Profile G-SI-PI of a steel ring (1.0330) which is surrounded on all sides by rubber/O-ring. The steel ring is therefore protected from corrosion and media. Vulcanization guarantees a high level of adhesive strength between the rubber and the steel ring.

Material

»Sealing ring: EPDM (Peroxide cured/Sulphar cured)
»Insert: St 37 galvanized, chromated or stainless steel

Operating range

»Pressure: p = 64 bar
»Continuous operation: t = −30 °C ... +120 °C
»a few hours: t = −30 °C ... +150 °C

Advantages

»The outer ring (EPDM) can be reused after replacement
»Uniform distribution of the surface pressure

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G-SI-BASIC DIMENSION ACC TO EN 1514 - 1 & DIN 2690

Diameter Nominal	Nominal Pressure	Dimensions in mm				
DN	PN	d1	x	d2	x	S1/S2
15	10-40	22	x	51	x	3/4
20	6	27	x	64	x	3/4
20	10-40	27	x	61	x	3/4
25	10-40	34	x	71	x	3/4
32	6	43	x	76	x	3/4
32	10-40	43	x	82	x	3/4
40	10-40	49	x	92	x	4/5
50	6	61	x	96	x	4/5
50	10-40	61	x	107	x	4/5
65	6	77	x	116	x	4/5
65	10-40	77	x	127	x	4/5
80	10-40	89	x	142	x	4/5
100	6	115	x	152	x	5/6
100	10-16	115	x	162	x	5/6
100	25-40	115	x	168	x	5/6
125	6	141	x	182	x	5/6
125	10-16	141	x	192	x	5/6
125	25-40	141	x	194	x	5/6
150	6	169	x	207	x	6/8
150	10-16	169	x	218	x	6/8
150	25-40	169	x	224	x	6/8
200	6	220	x	262	x	6/8
200	10-16	220	x	273	x	6/8
200	25	220	x	284	x	6/8
200	40	220	x	290	x	6/8
250	6	273	x	317	x	6/8
250	10	273	x	328	x	6/8
250	16	273	x	329	x	6/8
250	25	273	x	340	x	6/8
250	40	273	x	352	x	6/8
300	6	324	x	373	x	6/8
300	10	324	x	378	x	6/8
300	16	324	x	384	x	6/8
300	25	324	x	400	x	6/8
300	40	324	x	417	x	6/8
350	10	356	x	438	x	7/10
350	16	356	x	444	x	7/10
400	10	407	x	489	x	7/10
400	16	407	x	495	z	7/10
450	10	458	x	539	x	7/10
450	16	458	x	555	x	7/10
500	10	508	x	594	x	7/10
500	16	508	x	617	x	7/10
600	10	610	x	695	x	7/10
600	16	610	x	734	x	7/10
700	10	712	x	810	x	8/11
700	16	712	x	804	x	8/11
800	10	813	x	917	x	8/11
800	16	813	x	911	x	8/11
900	10	915	x	1017	x	8/11
900	16	915	x	1011	x	8/11
1000	10	1016	x	1124	x	8/11
1000	16	1016	x	1128	x	8/11
1200	2,5	1220	x	1290	x	8/11
1200	6	1220	x	1307	x	8/11
1200	10	1220	x	1341	x	8/11
1200	16	1220	x	1342	x	8/11
1400	2,5	1420	x	1490	x	8/11

Diameter Nominal	Nominal Pressure	Dimensions in mm				
DN	PN	d1	x	d2	x	S1/S2
350	6	368	x	423	x	7/10
350	10	368	x	438	x	7/10
350	16	368	x	445	x	7/10
350	25	368	x	458	x	7/10
350	40	368	x	475	x	7/10
400	6	420	x	473	x	7/10
400	10	420	x	490	x	7/10
400	16	420	x	497	x	7/10
400	25	420	x	515	x	7/10
400	40	420	x	547	x	7/10
450	6	470	x	528	x	7/10
450	10	470	x	540	x	7/10
450	16	470	x	557	x	7/10
450	25	470	x	565	x	7/10
450	40	470	x	572	x	7/10
500	6	520	x	182	x	7/10
500	10	520	x	192	x	7/10
500	16	520	x	194	x	7/10
500	25	520	x	207	x	7/10
500	40	520	x	218	x	7/10
600	6	620	x	680	x	7/10
600	10	620	x	695	x	7/10
600	16	620	x	735	x	7/10
600	25	620	x	730	x	7/10
600	40	620	x	745	x	7/10
700	6	720	x	785	x	8/11
700	10	720	x	810	x	8/11
700	16	720	x	805	x	8/11
700	25	720	x	830	x	8/11
700	40	720	x	850	x	8/11
800	6	324	x	373	x	8/11
800	10	324	x	378	x	8/11
800	16	324	x	384	x	8/11
800	25	324	x	400	x	8/11
800	40	324	x	417	x	8/11
900	6	920	x	990	x	8/11
900	10	920	x	1015	x	8/11
900	16	920	x	1010	x	8/11
900	25	920	x	1040	z	8/11
900	40	920	x	1080	x	8/11
1000	6	1020	x	1090	x	8/11
1000	10	1020	x	1120	x	8/11
1000	16	1020	x	1125	x	8/11
1000	40	1020	x	1190	x	8/11
1100	10	1120	x	1215	x	8/11
1200			x	1285	x	8/11
1200	2,5	1220	x	1290	x	8/11
1200	6	1220	x	1307	x	8/11
1200	10	1220	x	1341	x	8/11
1200	16	1220	x	1342	x	8/11
1200	25	1220	x	1360	x	8/11
1200	40	1220	x	1395	x	8/11
1200		1380	x	1380	x	8/11
1400	2,5	1420	x	1490	x	8/11
1400	16	1454	x	1540	x	8/11

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G-SI-PI BASIC Dimensions acc to ASME B16.21 to suit ASME B16.5

DIAMETER NOKINAL	DIMENSIONS IN MM/ NOMINAL PRESSURE UPTO 150 lbs					DIMENSIONS IN MM/ NOMINAL PRESSURE UPTO 300lbs				
NPS	d1	X	d2	X	s1/s2	d1	X	d2	x	s1/s2
1/2"	21	X	45	X	3/4	20	X	51	X	3/4
3/4"	27	X	54	X	3/4	27	X	64	X	3/4
1"	33	X	64	X	3/4	33	X	70	X	3/4
1 1/4"	42	X	73	X	3/4	42	X	80	X	3/4
1 1/2"	48	X	83	X	3/4	48	X	92	X	3/4
2"	60	X	102	X	4/5	60	X	108	X	4/5
2 1/2"	73	X	121	X	4/5	73	X	127	X	4/5
3"	89	X	133	X	4/5	89	X	146	X	4/5
3 1/2"	102	X	159	X	4/5	102	X	162	X	4/5
4"	115	X	171	X	5/6	115	X	178	X	5/6
5"	140	X	193	X	5/6	140	X	213	X	5/6
6"	168	X	219	X	6/8	168	X	247	X	6/8
8"	219	X	276	X	6/8	219	X	305	X	6/8
10"	273	X	337	X	6/8	273	X	359	X	6/8
12"	325	X	406	X	6/8	325	X	419	X	6/8
14"	356	X	448	X	7/10	356	X	482	X	7/10
16"	406	X	512	X	7/10	406	X	537	X	7/10
18"	457	X	547	X	7/10	457	X	594	X	7/10
20"	508	X	604	X	7/10	508	X	651	X	7/10
24"	610	X	715	X	5.5/8	610	X	772	X	7/10

FOR ASME B 16.47 SERIES A FLANGES

DIAMETER NOKINAL	DIMENSIONS IN MM/ NOMINAL PRESSURE UPTO 150 lbs					DIMENSIONS IN MM/ NOMINAL PRESSURE UPTO 300lbs				
NPS	d1	X	d2	X	s1/s2	d1	X	d2	x	s1/s2
26"	665	X	771	X	7/10	665	X	832	X	7/10
28"	720	X	829	X	8/11	720	X	895	X	8/11
30"	770	X	880	X	8/11	770	X	849	X	8/11
32"	820	X	937	X	8/11	820	X	1003	X	8/11
34"	865	X	987	X	8/11	856	X	1054	X	8/11
36"	920	X	1045	X	8/11	920	X	1114	X	8/11
38"	965	X	1108	X	8/11	965	X	1051	X	8/11
40"	1020	X	1159	X	8/11	1020	X	1111	X	8/11
42"	1070	X	1216	X	8/11	1070	X	1162	X	8/11
44"	1120	X	1273	X	8/11	1120	X	1216	X	8/11
46"	1170	X	1324	X	8/11	1170	X	1270	X	8/11
48"	1220	X	1381	X	8/11	1220	X	1321	X	8/11
50"	1270	X	1432	X	8/11	1270	X	1375	X	8/11
52"	1320	X	1489	X	8/11	1320	X	1425	X	8/11
54"	1370	X	1546	X	8/11	1370	X	1489	X	8/11
56"	1430	X	1603	X	8/11	1430	X	1540	X	8/11
58"	1475	X	1660	X	8/11	1475	X	1590	X	8/11
60"	1530	X	1711	X	8/11	1530	X	1641	X	8/11

FOR ASME B 16.47 SERIES B FLANGES

DIAMETER NOKINAL	DIMENSIONS IN MM/ NOMINAL PRESSURE UPTO 150 lbs				
NPS	d1	X	d2	X	s1/s2
28"	720	X	773	X	8/11
30"	770	X	824	X	8/11
32"	820	X	878	X	8/11
36"	920	X	984	X	8/11

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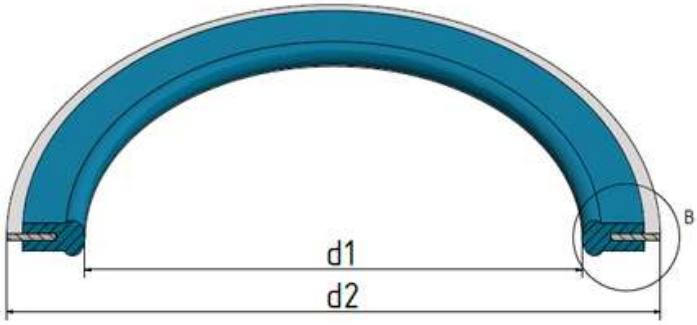

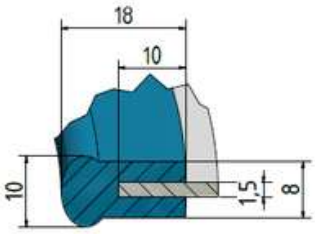

G-SI - OF

G-SI-OF - Rubber-steel gaskets Profile

The rubber-steel gasket G-SI-OF consists of a metal support ring and a specially moulded, replaceable elastomer ring which is located in the force shunt after fitting. The central support ring is available in galvanised and chromated carbon steel, stainless steel.

Features:

»Easy to replace the rubber sealing rings, meaning the rubber-steel gasket G-SI-OF can be reused again and again
» Safe to use and easy to handle the rubber sealing material, even at large nominal sizes

Typical field of application:

» Sealing tank flange connections
» Sealing special flanges
» Sealing cooling and condensate pipelines in power plants

Operating range

»Pressure: p = 100 bar
»Continuous operation: t = −30 °C ... +120 °C
»a few hours: t = −30 °C ... +150 °C

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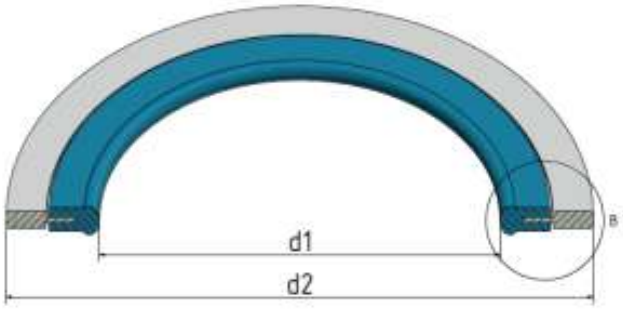

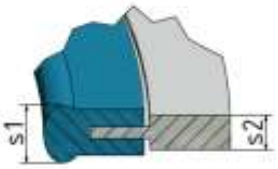

G-SI - OS

G-SI-OS - Rubber-steel gaskets Profile

The G-SI-OS rubber-steel gasket Profile in its standard form consists of a galvanised and chromated metal support ring and a rubber sealing ring with integrally moulded sealing lips. The support ring is also available in stainless steel or plastic. In contrast to traditional gaskets, the rubber sealing ring in the rubber-steel gasket Profile WL is in off load contact. This means that any forces that are too high for the rubber sealing ring are borne by the support ring. Another advantage is that the rubber sealing ring is chambered outwards by the support ring. With the creation of a metal-tometal seal, very high internal pressures and additional forces from the pipeline system can be permitted. The rubber-steel gasket Profile WL combines all the advantages of a rubber gasket with those of a metal gasket.

Features:

» impossible to over load the rubber sealing ring
» seal is secure, even with large fluctuations or surges in pressure can be used for a range of applications due to the very large range of surface pressure limits.

Typical field of application:

» Rubberized assemblies in chemical and power plants or Systems with high operating pressures
» Up to 100 bar

Materials:

EPDM/NBR/FKM Back-up ring: S235JR galvanized/ 1.4301/1.4571 (others on request)

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G-SI-OS Gasket Dimensions acc to DIN 2690

	PN	6	10	16	25	40	63	100	
DN	d1	d4	d4	d4	d4	d4	d4	d4	s1/s2
10	18		45	45	45	45	56	56	5/3
15	22		50	50	50	50	61	61	5/3
20	28		60	60	60	60			5/3
25	35		70	70	70	70	82	82	5,5/5,3
32	43		82	82	82	82			5,5/5,3
40	49		92	92	92	92	103	103	5,5/5,3
50	61		107	107	107	107	113	119	5,5/5,3
65	77		127	127	127	127	137	143	5,5/5,3
80	90		142	142	142	142	148	154	5,5/5,3
100	115		162	162	168	168	174	180	8/5
125	141		192	192	195	195	210	217	8/5
150	169		218	218	225	225	247	257	8/5
175	195		248	248	255	267	277	287	8/5
200	220		273	273	285	292	309	323	8/5
250	274		328	330	342	353	364	391	8/5
300	325		378	385	402	418	424	458	8/5
350	368		438	445	458	475	486	512	8/5
400	420	473	490	497	515	547	543	572	8/5
450	470		540	557	565	572			10/6
500	520	578	595	618	625	628	657	704	10/6
600	620	680	695	735	730	745	764	813	10/6
700	720	784	810	805	830	850	879	950	10/6
800	820	890	915	910	940	970	988		10/6
900	920	990	1015	1010	1040	1080	1108		10/6
1000	1020		1120	1125	1150	1190	1220		10/6
1200	1220	1307	1340	1340	1360	1395	1452		10/6
1400	1420		1545	1540	1575	1615			12/8
1600	1620	1724	1770	1760	1795	1830			12/8
1800	1820		1970	1960	2000				12/8
2000	2020		2180	2165	2230				12/8
2200	2220	2348	2380		2375				12/8
2400	2420	2558	2590	2585					12/8
2600	2620		2790	2785					12/8
2800	2820		3010						12/8
3000	3020		3225						12/8

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G-SI-OS Dimensions acc to ASME B16.21 to for ASME B16.5

	CLASS	150	300	400	600	900	
NPS	d1	d4	d4	d4	d4	d4	s1/s1
1/2"	16	45	51	51	51	61	5/3
3/4"	22	54	64	64	64	67	5/3
1"	28	64	70	70	70	76	5/3
1 1/4"	35	73	80	80	80	86	5,5/3,5
1 1/2"	43	83	93	93	93	95	5,5/3,5
2"	61	102	108	108	108	140	5,5/3,5
2 1/2"	77	121	127	127	127	162	5,5/3,5
3"	90	134	146	146	146	165	5,5/3,5
3 1/2"	102	159	162	159	159		8/5
4"	115	172	178	175	191	203	8/5
5"	141	194	213	210	238	245	8/5
6"	169	220	248	245	264	286	8/5
8"	220	277	305	302	318	356	8/5
10"	274	337	359	356	397	432	8/5
12"	325	407	419	416	454	496	8/5
14"	368	448	483	480	489	518	8/5
16"	420	512	537	534	562	572	8/5
18"	470	547	594	591	610	635	10/6
20"	520	604	651	645	680	696	10/6
24"	620	715	772	766	788	835	10/6

MATERIALS

EPDM, NBR, FKM, More gasket on request

SUPPORT RING

S235JR galvanisiert/1.4301/1.4571
Further support ring on request

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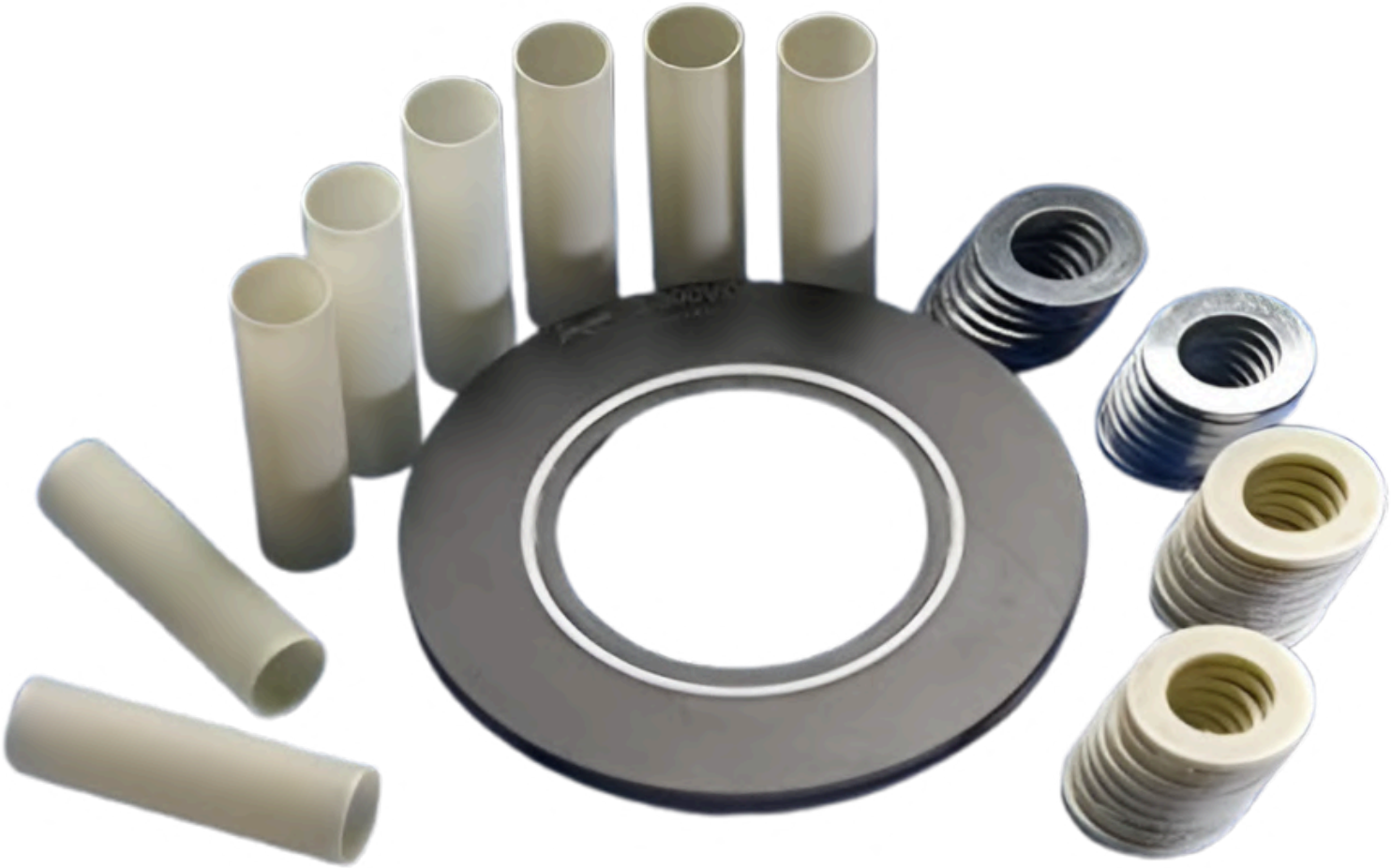
INSULATION GASKET KIT



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SHIELD - BASIC

The Shield-BASIC gasket is constructed from G10 glass-reinforced epoxy (GRE). The Shield PRO-BASIC contains a rectangular sealing element combination with a unique, engineered groove design and together they provide an effective sealing element that also requires less bolt load than a typical flat gasket. Sleeves and washers – The sleeves and washers offered with the Shield PRO-BASIC gasket are completely temperature dependent. Most commonly used are Mylar and G10 sleeves accompanied by G10 and zinc plated steel washers.

Sealing elements

The composite retainer backing material behind the seal remains uncontaminated and thus permanently holds the seal in place in a static, fully-encapsulated manner. We offers Viton/ EPDM /NBR / PTFE are the standard sealing elements for use with the SHILD PRO-BASIC.

GASKET MATERIAL PROPERTIES

Glass-Reinforced Epoxy NEMA grade G-10

Compressive Strength	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
66,000PSI	800 VPM Max	-120°C	150°C	0.10%
Tensile Strength	Flexural Strength			
32,000 PSI	52,000 PSI			

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Glass-Reinforced Epoxy NEMA grade G-11

Compressive Strength	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
66,000PSI	800 VPM Max	-120°C	150°C	0.10%
Tensile Strength	Flexural Strength			
41,000 PSI	57,000 PSI			

Insulating Sleeve Materials

Sleeve Material	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
Mylar	500 vpm	-59°C	149°C	0.80%
Nomex	500 vpm	-54°C	232°C	-
G7	350 vpm	-196°C	232°C	0.07%
G10	550 vpm	-128°C	150°C	0.10%
G11	550 vpm	-45°C	202°C	0.10%

Insulating Washer Materials

Sleeve Material	Dielectric Strength	Compressive Strength	Tensile Strength	Water Absorption
Phenolic	500 vpm	25000 psi	20000 psi	1.60%
Mica	400 vpm	30000 psi	32000 psi	0.01%
G7	350 vpm	40000 psi	25000 psi	0.07%
G10	550 vpm	65000 psi	50000 psi	0.10%
G11	550 vpm	50000 psi	43000 psi	0.10%

Steel Washer Materials

The materials usually are zinc plated carbon steel, also can be stainless steel 304 or 316 materials. Sometimes for special application, the steel washer can be HCS with PTFE coating.

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SHIELD - PRO

SHILD PRO Flange Isolation Kit High-Reliability, low pressure sealing system. The SHILD PRO is a specialised kit designed for low pressure service isolation, offering electrical flange isolation and general sealing capabilities. It is specifically designed for use in raised-face and flat-face flanges within ANSI class 150 and 300 service (with class 600 available). In addition to its electrical isolation properties, the SHILD PRO kit is highly effective in isolating flanges made of different metals or in situations where preventing flange face corrosion is desired. The unique design of the SHILDPRO system incorporates patented overlapping and offsetting seal grooves. The sealing element can be any elastomeric material as well as more sophisticated Spring-Energized PTFE lip seals.

Seal Retainer

The SHILD PRO seal retainer is constructed from NEMA grade G-10 glass-reinforced epoxy (GRE). This material has excellent performance characteristics with very high compressive strength, high flexural strength, high dielectric strength and low fluid absorption. SHILD PRO seals made from grade G-10 material are rated for service up to 302˚F (150˚C). For higher temperature service, grade G-11 is an acceptable alternative material, which is rated for 392˚F (200˚C) continuous service. Two overlapping and offsetting seal grooves are machined into the high strength retainer in order to break the potential leak/weep path that is inherent in all glass laminate materials.

Sealing elements

The composite retainer backing material behind the seal remains uncontaminated and thus permanently holds the seal in place in a static, fully-encapsulated manner. We offers three standard sealing elements for use with the SHILD PRO. The three standard seals are: PTFE Recommended for all environments.

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Shield PRO Flange Isolating Gasket Kit Components Materials

Central big gasket	G10 or G11
Metal Core	NIL
Sealing Ring	Spring-energized PTFE
Thickness	3.2mm (1/8")
Insulating washers	G10, G11, G7, Phenolic
Insualting Sleeves	G10, G11, Mylar, Phenolic, Nomex
Steel Washers	Zinc plated carbon steel or stainless steel

SHIELD - PRO HT

SHILD PRO-HT Flange Isolation Kit High-Reliability, low pressure sealing system The SHILD PRO-HT is a specialised kit designed for low pressure service isolation, offering electrical flange isolation and general sealing capabilities. It is specifically designed for use in raised-face and flat-face flanges within ANSI class 150 and 300 service (with class 600 available). In addition to its electrical isolation properties, the SHILD PRO-HT kit is highly effective in isolating flanges made of different metals or in situations where preventing flange face corrosion is desired. The unique design of the SHILD PRO-HT system incorporates patented overlapping and offsetting seal grooves. The sealing element can be any elastomeric material as well as more sophisticated Spring-Energized PTFE lip seals.
Seal Retainer
The SHILD PRO-HT seal retainer is constructed from NEMA grade G-10 glass-reinforced epoxy (GRE). This material has excellent performance characteristics with very high compressive strength, high flexural strength, high dielectric strength and low fluid absorption. SHILD PRO-HT For higher temperature service, grade G-11 is an acceptable alternative material, which is rated for 392˚F (200˚C) continuous service. Two overlapping and offsetting seal grooves are machined into the high strength retainer in order to break the potential leak/weep path that is inherent in all glass laminate materials.

Sealing elements
The composite retainer backing material behind the seal remains uncontaminated and thus permanently holds the seal in place in a static, fully-encapsulated manner. We offers PTFE is the standard sealing elements for use with the SHILD PRO-HT.

GASKET MATERIAL PROPERTIES

Glass-Reinforced Epoxy NEMA grade G-11

Compressive Strength	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
66,000PSI	800 VPM Max	-120°C	150°C	0.10%
Tensile Strength	Flexural Strength			
41,000 PSI	57,000 PSI			

Insulating Sleeve Materials

Sleeve Material	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
Mylar	500 vpm	-59°C	149°C	0.80%
Nomex	500 vpm	-54°C	232°C	-
G7	350 vpm	-196°C	232°C	0.07%
G10	550 vpm	-128°C	150°C	0.10%
G11	550 vpm	-45°C	202°C	0.10%

Insulating Washer Materials

Sleeve Material	Dielectric Strength	Compressive Strength	Tensile Strength	Water Absorption
Phenolic	500 vpm	25000 psi	20000 psi	1.60%
Mica	400 vpm	30000 psi	32000 psi	0.01%
G7	350 vpm	40000 psi	25000 psi	0.07%
G10	550 vpm	65000 psi	50000 psi	0.10%
G11	550 vpm	50000 psi	43000 psi	0.10%

Steel Washer Materials

The materials usually are zinc plated carbon steel, also can be stainless steel 304 or 316 materials. Sometimes for special application, the steel washer can be HCS with PTFE coating.

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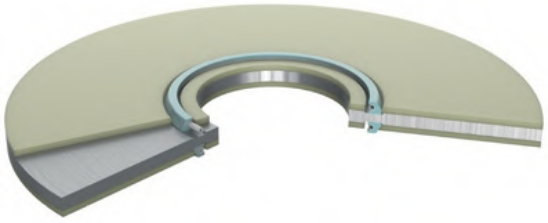
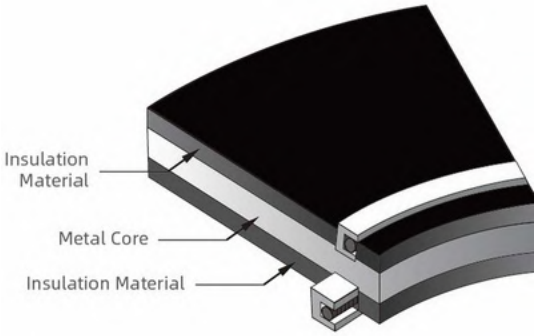
SHIELD - PROMAX





The **PRO-Max** flange isolating gasket kit is usually made of G10 /G11 and SS316 metal core, and it provides exceptional insulating and general sealing performance in aggressive material applications. The **PRO-Max** flange isolating gasket kit is suitable in all very critical services up to and including ANSI 2500# and API 10,000# classes. And it can match all types of flanges such as raised flange, full face flanges, Ring type joint flanges.

Due to the unique pressure activated sealing mechanism of the **PRO-Max** flange isolating gasket kit, it requires far less bolt stress to seal than any other type gaskets. The **PRO-Max** isolating gasket inner diameter is exactly matched to the flange bore to eliminate turbulent flow and flange face erosion or corrosion. The seal elements are replaceable in the reusable gasket retainer. And our **PRO-Max** flange isolating gasket kit is equal to Pikotek® VCS® / Lamons Defender Isolating Gasket kits.

Application

PRO-Max Flange Isolating Gasket kit can be used for insulation in conjunction with cathodic protection, Insulation between dissimilar metals to prevent galvanic corrosion, wellhead isolation from inter-connected flow lines, valve connections, Christmas Tree connections, Compressor connections, Tanks and heat exchangers with sacrificial anodes to increase anode life, mating mismatched ring-joint to raised-face flanges. it can eliminate fluid trap corrosion between ring-joint (RTJ) flanges where high concentrations of CO2, H2S, other aggressive hydrocarbon media are present, and it also can eliminates turbulence and flow-induced erosion between ring-joint (RTJ) flanges.

PRO-Max Flange Isolating Gasket Kit Design

The unique and patented design of **PRO-Max** flange isolating gasket kit incorporates high-strength, glass-reinforced epoxy laminate bonded to a stainless steel core like stainless steel 316. This provides the strength of a traditional metallic gasket while maintaining complete electrical insulation between the flange faces. Seal grooves are machined through the laminate insulating material and into the stainless steel core. This provides a strong base for the seal to sit into and breaks the potential leak or weep path that is inherent in glass laminate materials. Spring-energized Teflon internal face seals are installed in the dovetail-shaped seal grooves to provide the trademark pressure-activated sealing performance distinguishing the PRO-Max flange isolating gasket kit from all other high pressure insulating gaskets.

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Shield PRO-Max Flange Isolating Gasket Kit Components Materials

Central big gasket	G10 or G11
Metal Core	SS316 or other steel metal
Sealing Ring	Spring-energized PTFE
Thickness	6.2mm
Insulating washers	G10, G11, G7, Phenolic
Insualting Sleeves	G10, G11, Mylar, Phenolic, Nomex
Steel Washers	Zinc plated carbon steel or stainless

Gasket Material Properties

Glass-Reinforced Epoxy NEMA grade G-10

Compressive Strength	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
66,000PSI	800 VPM Max	-120°C	150°C	0.10%
Tensile Strength	Flexural Strength			
32,000 PSI	52,000 PSI			

Glass-Reinforced Epoxy NEMA grade G-11

Compressive Strength	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
66,000PSI	800 VPM Max	-120°C	150°C	0.10%
Tensile Strength	Flexural Strength			
41,000 PSI	57,000 PSI			

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Insulating Sleeve Materials

Sleeve Material	Dielectric Strength	Low operating temp	Max operating temp	Water Absorption
Mylar	500 vpm	-59°C	149°C	0.80%
Nomex	500 vpm	-54°C	232°C	-
G7	350 vpm	-196°C	232°C	0.07%
G10	550 vpm	-128°C	150°C	0.10%
G11	550 vpm	-45°C	202°C	0.10%

Insulating Washer Materials

Sleeve Material	Dielectric Strength	Compressive Strength	Tensile Strength	Water Absorption
Phenolic	500 vpm	**Compressive Strength**	20000 psi	1.60%
Mica	400 vpm	30000 psi	32000 psi	0.01%
G7	350 vpm	40000 psi	25000 psi	0.07%
G10	550 vpm	65000 psi	50000 psi	0.10%
G11	550 vpm	50000 psi	43000 psi	0.10%

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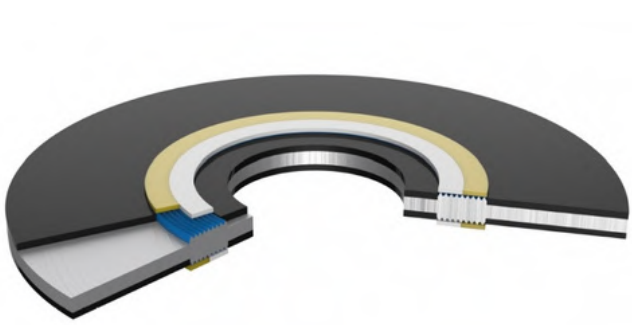
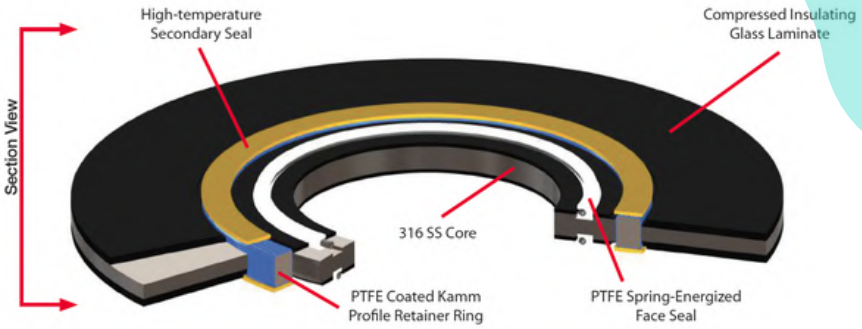
SHIELD - PROMAX FS





This premium performance fire safe isolation gasket incorporates a coated metallic core housing a modified u-shaped PTFE seal energised with a phynox spring in a patented triple seal design.
This product also significantly surpasses the fugitive emissions requirements of Shell MESC SPE 85/300 3.3.2 Class A.

PRODUCT FEATURE

On the inside and outside of this seal are two kammprofile sections, the inner is faced with Fluolion 800 modified PTFE material, and the outer with DS Pro, a proprietary high temperature material. G11 GRE material is used to face the outer section of the metallic core.
Each SHIELD PROMAX FS flange isolation kit is supplied with G11 bolt sleeves and a unique washer combination consisting of a metallic washer and specially modified high temperature material.

TYPICAL APPLICATION

- SHIELD PROMAX FS combines exceptional chemical compatibility and electrical isolation with the capability of maintaining sealing performance.
- Flange isolation for cryogenic applications / LNG service
- Media compatibility with natural gas, oils, other hydrocarbon media and many corrosive environment
- Specified for plant wide use on the majority of flange specifications including ASME, JIS, EN, BS and DIN
- Flange insulation and electrical isolation in conjunction with cathodic protection
- Insulation between dissimilar metals/flanges to prevent galvanic corrosion

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- Gasket Type: E or F
- Seal Elements: KMT (Kammpro/Mica/PTFE)
- Pressure Class: ANSI(150#-2500#), API (2-10K), PN (20-420)
- Sizes: ½" through 48" diameter
- Temperature Range: Cryogenic-303°F (FS G10), -100-392°F (FS G11)

PERFORMANCE

Maximum temperature: +180°C (+356°F)
Minimum temperature: -45°C (-50°F)
Maximum pressure: 69 MPa/690 bar (10000 psi) (ASME Class 2500)

Thank you for taking the time to explore our comprehensive range of gasket and sealing products.

Why Choose Us?

At Gaskonix Engineering Pvt. Ltd., we are committed to delivering precision, performance, and reliability across every industry we serve.

Our team continues to innovate and refine our products to meet the ever-evolving demands of modern engineering applications. From standard sealing products to customized gasket solutions, we ensure the highest standards of quality, safety, and consistency.

For further inquiries, technical consultations, or custom orders, please reach out to us:

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