




RING TYPE JOINT GASKET

 Licence No.
6A-0722
Certification
ISO 9001 : 2015
ISO 14001 : 2015
OHSAS 45001 : 2018



“RISK FREE GASKETS, ON TIME”

ABOUT US

Goodrich Gasket Private Limited is acknowledged as the market leader in manufacturing & supply of High - performance Industrial Static Sealing Products for the Global Processing Industries. Goodrich Gaskets is currently manufacturing and supplying the entire range of Industrial Gaskets from its 25,000 Sq.m state of the art brand new facility at Chennai, India. Founded in 1987 the company has more than 3000 satisfied customers worldwide. "At Goodrich Gaskets, we Design, Manufacture, Supply, Install, and give On-Site support for all of your Gasket needs and Concerns."

OUR STRENGTHS

- ✔ 24X7 operational facility to meet customer's emergency and shut down requirements.
- ✔ Proven track record with reliability and high Gasket Performance.
- ✔ Experience in manufacturing Gaskets for over three decades by investing in modern manufacturing technology.
- ✔ Complete control over all critical processes, including raw materials.
- ✔ Investing preferred by reputed oil majors and EPC contractors.
- ✔ Highly skilled engineers for designing products with optimal performance & ability to design products with special requirements.
- ✔ Customized product development - working closely with the user groups.
- ✔ Quality Assurance Program - Approved by Major EPC, PMC & PSUs.
- ✔ Wide distribution network - Over 3000 Satisfied Customers Worldwide.
- ✔ Availability of Gaskets in various locations, including back up inventory at factories.

OUR CLIENTS



GOODRICH RING TYPE JOINT GASKET

Overview

Goodrich Ring Type Joint Gaskets are metallic sealing rings suitable for high pressure and high-temperature applications and are fitted in ring groove-type flanges. They are widely used in Oil & Gas, Petrochemical Industries, Valves, etc. All RTJ Gaskets manufactured at Goodrich have full traceability and are stamped to the requirements of ASME B16.20 & API 6A standards. The Gaskets are machined to the required tolerances and surface finished using high-quality CNC Lathes. Other Non-Standard types of Metal Rings are also available like Combination, Delta & Lens to customer's specifications. The Gasket Hardness is carefully controlled and shall always be softer than the mating flanges, to ensure a good seal and no damage to the flange surface.

Ring Joint Gaskets shall be identified by an R, RX, or BX number that relates to Flange size (NPS), Pressure Class, and the appropriate flange standards (ASME B16.5, ASME B 16.47, API Spec 6A).

Applications

- Oil and gas industry
- Petrochemical industry
- Power plants
- Flange connections
- Pipe connections
- Heat exchangers, Valves
- Pumps, Compressors, Boilers



GOODRICH RING TYPE JOINT GASKET

Materials

The Choice of Ring Type Joint gasket material should be selected to suit the service conditions. It is recommended that the gasket material be softer than the mating flanges. Maximum hardness and identification as specified in API 6A and ASME B16.20, are shown in the Table-1. For more highly specialised applications, Ring Type Joints can be machined from special steels like Duplex, Super Duplex and other exotic materials such as Inconel®, Incoloy®, and Hastelloy®. Our Technical Department is available to advise on other materials.

Protective coating - In accordance with API Specifications, Soft iron and Low carbon steel Ring Type Joints are protected with a coating to a maximum thickness of 0.013mm or 13µm. Alternative material coatings can be supplied on request.

MATERIAL	UNS NUMBER	MAXIMUM HARDNESS		IDENTIFICATION
		BRINELL	ROCKWELL B+	
Soft Iron		90	56	D
Low Carbon Steel		120	68	S
4-6% Chrome 1/2% Moly	K42554	130	72	F5
Type 304 Stainless Steel	S30400	160	83	S304
Type 316 Stainless Steel	S31600	160	83	S316
Type 347 Stainless Steel	S34700	160	86	S347
Type 410 Stainless Steel	S41700	170	86	S410
Titanium Grade 2	S41000			
Alloy 600	R50400			
Alloy 625	N06600	200		
Alloy 800	N06625	200		
Alloy 825	N08800	200		
Hastelloy	N08825	160		
Alloy C276	N10001	200		
SMO 254	N10276	200		
Zeron 100		200		
Super Duplex	S32154			

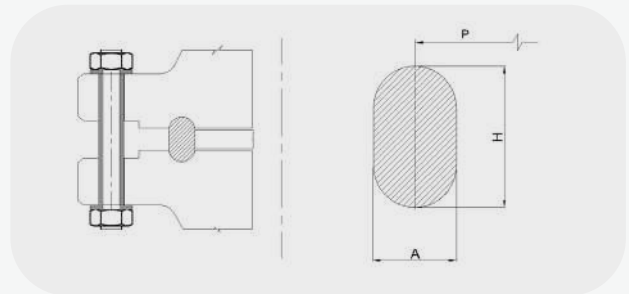
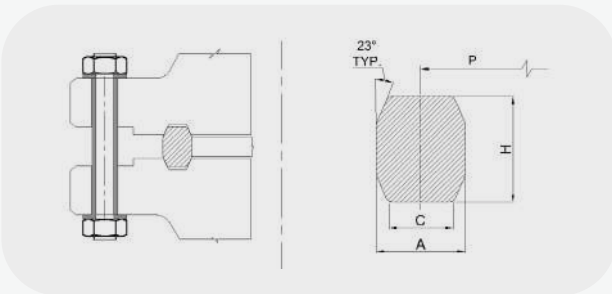
*Please note that the properties shown here are typical for the metals used and suitability for actual application should always be determined by a suitably qualified Engineer Specifications are subject to change without Prior notice.

TYPES OF RING TYPE JOINT GASKET

Goodrich Style R Gaskets are divided into R Octagonal Ring Gasket and R Oval Ring Gasket according to the different cross-sections. Style R gasket is used for pressures up to 5,000 PSI. The Ring Gasket is regarded as a semi-pressure energized ring gasket. They are manufactured in API 6A and ASME B16.20 to suit API 6B and ASME/ANSI B16.5 flanges.

R-Octagonal Ring Gasket is designed with an octagonal-shaped section. The average diameter of the R octagonal gasket is slightly larger than the average diameter of the gasket groove. The angle between the ring gasket and bevel face of the gasket groove is around 23°. The octagonal shape fits only the modern flat bottom groove flange.

R-Oval Ring Gasket is manufactured in an oval-shaped section. The oval ring fits the round and flat bottom ring groove flange.



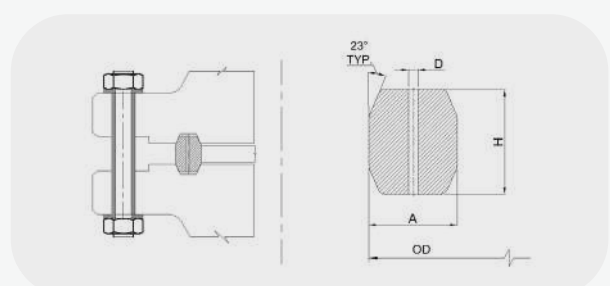
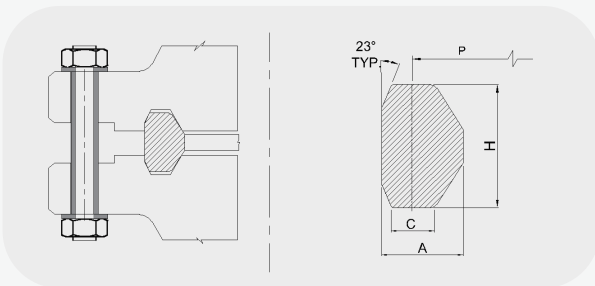
Note :

Types R gaskets shall have a surface finish not rougher than 1.6 μm (63 $\mu\text{in.}$), roughness and surface finish shall pertain to the gasket-sealing surface.

TYPES OF RING TYPE JOINT GASKET

Goodrich-Style RX gaskets comply with the standard of API 6A and ASME B16.20 to suit API 6B and ASME/ANSI B16.5 flanges. Style RX Gasket, is one special kind of Octagonal Gasket, is developed and improved on the basis of style R gasket. It has good sealing as the contact between gasket and the ring joint faces, especially the outside face, and is pressed tightly to keep good sealing performance. Style RX gasket is used for pressures up to 5,000 PSI.

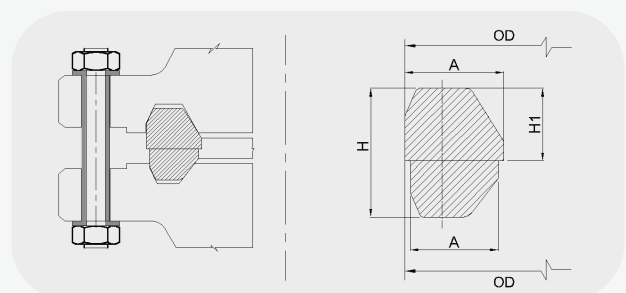
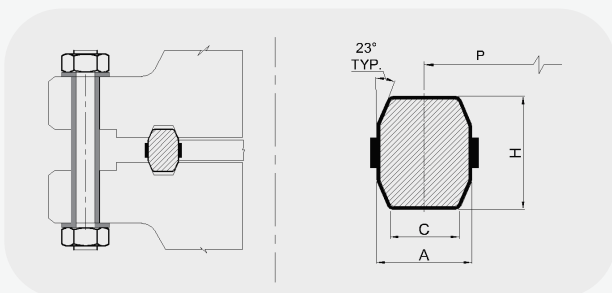
Goodrich-Style BX as one special kind of octagonal gasket, is manufactured in accordance with API 6A and is suitable for use in high-pressure API 6BX flanges. Style BX is designed for use on pressures up to 20,000 psi. All BX sizes have a pressure relief hole to equalize pressure across sealing faces. Goodrich Style BX ring type joint gasket is a pressure energized ring gasket.



TYPES OF RING TYPE JOINT GASKET

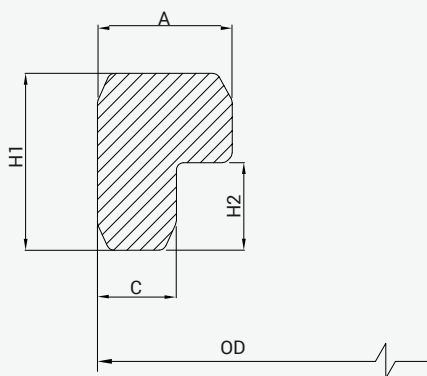
Goodrich Rubber Coated Ring Gaskets have an octagonal/oval section ring type joint, generally Soft Iron or Low Carbon steel, totally enclosed in a rubber coating. It is widely used in pressure testing procedures, minimizing any damage to the flange.

Goodrich - Transition Ring Type Joints consists of 2 different sizes having the same pitch diameter, used for sealing and flange joints where the mating flanges have different ring groove dimensions or profiles. These Ring Type Joints can be produced with R-Type and RX-Type Gaskets

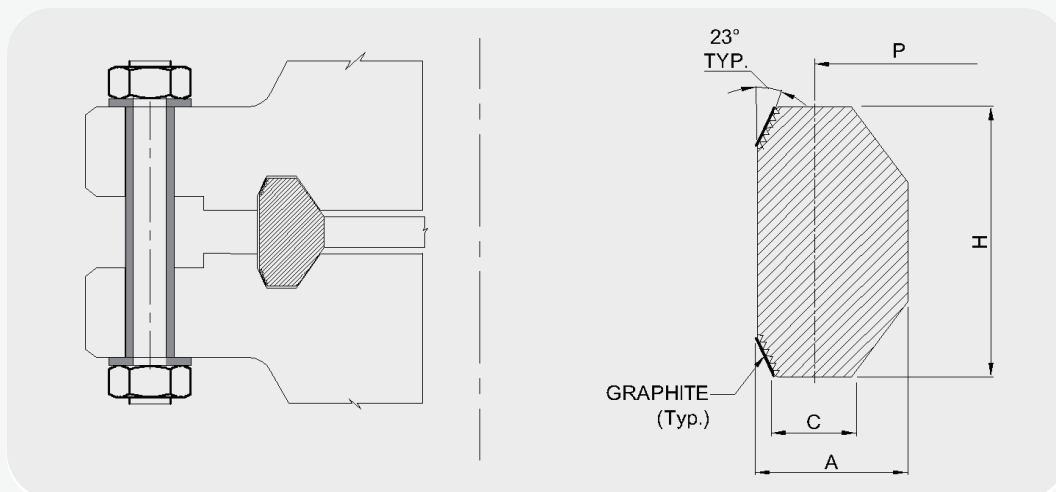


TYPES OF RING TYPE JOINT GASKET

Goodrich - Bonnet Seal Ring are designed to be used in Special Wellhead Equipment and Gate Valves etc. Bonnet seal rings are available in different materials & various sizes.



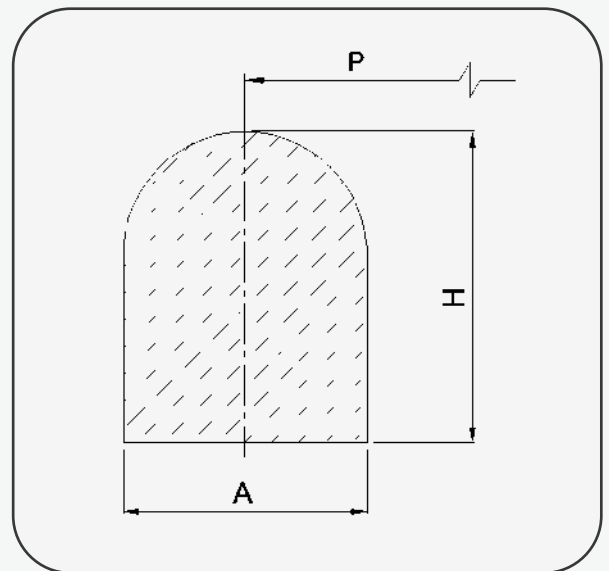
Goodrich Cam-RJ is a standard octagonal ring joint but with the four angled seating surfaces concentrically serrated and Pasted with oxidation inhibited graphite. The Gasket offers a high sealing efficiency associated with the octagonal design but with the added benefit of being capable of sealing flanges with minor damages. Under compression, the graphite flows into minor imperfections creating a tight seal. The Goodrich Cam-RJ is available in a range of required materials and in sizes to suit ASME B16.5 or API 6A flanges. Low Carbon Steel, totally enclosed in a Rubber coating. It is widely used in pressure testing procedures, minimizing any damage to the flange.



TYPES OF RING TYPE JOINT GASKET

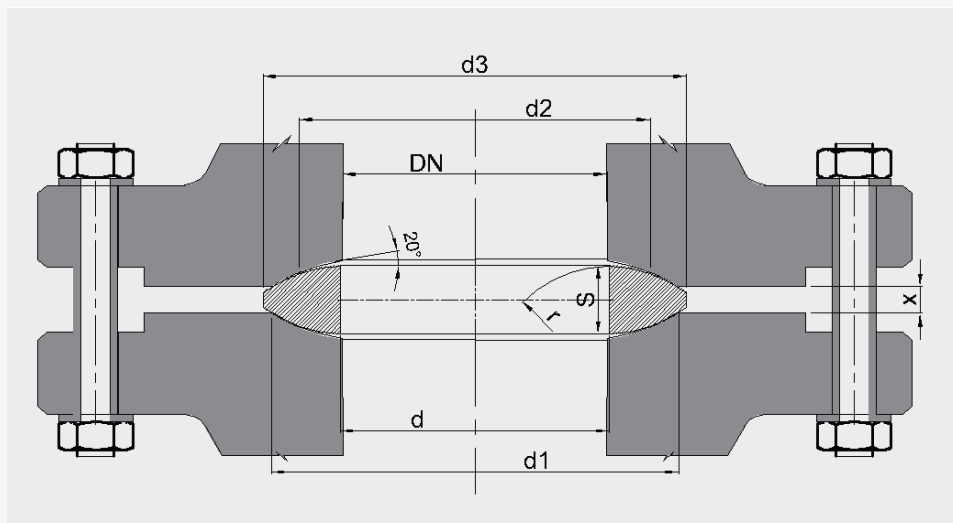
Goodrich - Split Ring Type Joints

These are specialized Ring Type Joints designed and manufactured for the customer who has a requirement where an API flange is to be joined with a low pressure ANSI Flange where a spiral wound gasket is used.



Goodrich Lens Rings

This is a contact seal for use in High-Pressure piping systems and in Pressure Vessel heads. Lens rings have a spherical surface that requires special matching of the flanges. Effective sealing is obtained at relatively low bolt loads. These lens gaskets are manufactured in accordance with DIN 2696 and as per customer requirement. For inquiries, complete drawings are required.



Dimensional Chart

Ring Type Joint

Type - R

Ring No.	PRESSURE CLASS RATING							PITCH DIAMETER OF RING P	WIDTH OF RING A	HEIGHT OF RING		WIDTH OF FLAT C	GASKET WEIGHT lbs.	
	ANSI					API (PSI)				OVAL B	OCTAGONAL H		OVAL	OCTAGONAL
	150	300/600	900	1500	2500	2000/3000	5000							
	NOMINAL PIPE SIZE (INCHES)													
R 11	-	1/2	-	-	-	-	-	34.14	6.35	11.2	9.7	4.32	.111	.104
R 12	-	-	1/2	1/2	-	-	-	39.7	7.95	14.2	12.7	5.23	.216	.20
R 13	-	3/4	-	-	1/2	-	-	42.88	7.95	14.2	12.7	5.23	.234	.216
R 14	-	-	3/4	3/4	-	-	-	44.45	7.95	14.2	12.7	5.23	.242	.224
R 15	1	-	-	-	-	-	-	47.63	7.95	14.2	12.7	5.23	.260	.24
R 16	-	1	1	1	3/4	-	-	50.8	7.95	14.2	12.7	5.23	.278	.256
R 17	1 1/4	-	-	-	-	-	-	57.15	7.95	14.2	12.7	5.23	.311	.288
R 18	-	1 1/4	1 1/4	1 1/4	1	-	-	60.33	7.95	14.2	12.7	5.23	.328	.304
R 19	1 1/2	-	-	-	-	-	-	65.1	7.95	14.2	12.7	5.23	.354	.328
R 20	-	1 1/2	1 1/2	1 1/2	-	-	-	68.28	7.95	14.2	12.7	5.23	.372	.344
R 21	2	-	-	-	1 1/4	-	-	72.24	11.13	17.5	16	7.75	.660	.643
R 22	2	-	-	-	-	-	-	82.55	7.95	14.2	12.7	5.23	.450	.415
R 23	-	2	-	-	1 1/2	2 1/16**	-	82.55	11.13	17.5	16	7.75	.755	.734
R 24	-	-	2	2	-	2 1/16	2	95.25	11.13	17.5	16	7.75	.870	.846
R 25	2 1/2	-	-	-	-	-	-	101.6	7.95	14.2	12.7	5.23	.553	.510
R 26	-	2 1/2	-	-	2	2 9/16	-	101.6	11.13	17.5	16	7.75	.930	.904
R 27	-	-	2 1/2	2 1/2	-	(2 9/16)	2 9/16	107.95	11.13	17.5	16	7.75	1.050	.96
R 28	-	-	-	-	2 1/2	-	-	111.13	12.7	19.1	17.5	8.66	1.255	1.23
R 29	3	-	-	-	-	-	-	114.3	7.95	14.2	12.7	5.23	.622	.575
R 30	-	3	-	-	-	-	-	117.48	11.13	17.5	16	7.75	1.075	1.047
R 31	-	3	3	-	-	3 1/8	-	123.83	11.13	17.5	16	7.75	1.130	1.10
R 32	-	-	-	-	3	-	-	127	12.7	19.1	17.5	8.66	1.435	1.405
R 33	3 1/2	-	-	-	-	-	-	131.78	7.95	14.2	12.7	5.23	.718	.664
R 34	-	3 1/2	-	-	-	-	-	131.78	11.13	17.5	16	7.75	1.200	1.17
R 35	-	-	-	3	-	-	3 1/8	136.53	11.13	17.5	16	7.75	1.250	1.21
R 36	4	-	-	-	-	-	-	149.23	7.95	14.2	12.7	5.23	.813	.735
R 37	-	4	4	-	-	4 1/16	-	149.23	11.13	17.5	16	7.75	1.360	1.33
R 38	-	-	-	-	4	-	-	157.18	15.88	22.4	20.6	10.49	2.56	2.52
R 39	-	-	-	4	-	-	4 1/16	161.93	11.13	17.5	16	7.75	1.480	1.44
R 40	5	-	-	-	-	-	-	171.45	7.95	14.2	12.7	5.23	.935	.865
R 41	-	5	5	-	-	-	-	180.98	11.13	17.5	16	7.75	1.66	1.61
R 42	-	-	-	-	5	-	-	190.5	19.05	25.4	23.9	12.32	4.21	4.16
R 43	6	-	-	-	-	-	-	193.68	7.95	14.2	12.7	5.23	1.055	.975
R 44	-	-	-	5	-	-	-	193.68	11.13	17.5	16	7.75	1.77	1.73
R 45	-	6	6	-	-	7 1/16	-	211.15	11.13	17.5	16	7.75	1.93	1.88
R 46	-	-	-	6	-	-	7 1/16	211.15	12.7	19.1	17.5	8.66	2.39	2.33
R 47	-	-	-	-	6	-	-	228.6	19.05	25.4	23.9	12.32	5.06	4.99
R 48	8	-	-	-	-	-	-	247.65	7.95	14.2	12.7	5.23	1.350	1.24
R 49	-	8	8	-	-	9	-	269.88	11.13	17.5	16	7.75	2.40	
R 50	-	-	-	8	-	-	9	269.88	15.88	22.4	20.6	10.49	4.40	4.32
R 51	-	-	-	-	8	-	-	279.4	22.23	28.7	26.9	14.81	8.05	8.17
R 52	10	-	-	-	-	-	-	304.8	7.95	14.2	12.7	5.23	1.66	1.53
R 53	-	10	10	-	-	11	-	323.85	11.13	17.5	16	7.75	3.00	2.88
R 54	-	-	-	10	-	-	11	323.85	15.88	22.4	20.6	10.49	5.29	5.18
R 55	-	-	-	-	10	-	-	342.9	28.58	36.6	35.1	19.81	16.23	17.04
R 56	12	-	-	-	-	-	-	381	7.95	14.2	12.7	5.23	2.07	1.92
R 57	-	12	12	-	-	13 5/8	-	381	11.13	17.5	16	7.75	3.48	3.38

General notes:

All dimensions are in millimeters.

Tolerances:

P = average pitch diameter of ring ± 0.18

A = width of ring ± 0.20

B&H = height of ring $\pm 1.3, -0.5$

Variation in height throughout the entire circumference of any given ring shall not exceed 0.5 within these tolerances

C = width of flat on octagonal ring ± 0.20

R1 = radius in ring ± 0.5

23 ° = angle $\pm 0 ° 30 \text{ min}$

Dimensional Chart

Ring Type Joint

Type - R

Ring No.	PRESSURE CLASS RATING							PITCH DIAMETER OF RING P	WIDTH OF RING A	HEIGHT OF RING		WIDTH OF FLAT C	GASKET WEIGHT lbs.	
	ANSI					API (PSI)				OVAL B	OCTAGONAL H		OVAL	OCTAGONAL
	150	300/600	900	1500	2500	2000/3000	5000							
	NOMINAL PIPE SIZE (INCHES)													
R58	-	-	-	12	-	-	-	15	0.875	1.13	1.06	14.81	11	11.13
R59	14	-	-	-	-	-	-	15.625	0.313	0.56	0.5	5.23	2.16	2
R60	-	-	-	-	12	-	-	16	1.25	1.56	1.5	22.33	23.1	23.5
R61	-	14	-	-	-	-	-	16.5	0.438	0.69	0.63	7.75	3.83	3.73
R62	-	-	14	-	-	-	-	16.5	0.625	0.88	0.81	10.49	6.84	6.71
R63	-	-	-	14	-	-	-	16.5	1	1.31	1.25	17.3	16.2	16.67
R64	16	-	-	-	-	-	-	17.875	0.313	0.56	0.5	5.23	2.47	2.29
R65	-	16	-	-	-	16 3/4**	-	18.5	0.438	0.69	0.63	7.75	4.3	4.18
R66	-	-	16	-	-	-16	-	18.5	0.625	0.88	0.81	10.49	7.67	7.53
R67	-	-	-	16	-	-	-	18.5	1.125	1.44	1.38	19.81	22.3	23.4
R68	18	-	-	-	-	-	-	20.375	0.313	0.56	0.5	5.23	2.82	2.6
R69	-	18	-	-	-	-	-	21	0.438	0.69	0.63	7.75	4.87	4.74
R70	-	-	18	-	-	-18	-	21	0.75	1	0.94	12.32	11.8	11.64
R71	-	-	-	18	-	-	-	21	1.125	1.44	1.38	19.81	25.2	26.5
R72	20	-	-	-	-	-	-	22	0.313	0.56	0.5	5.23	3.04	2.81
R73	-	20	-	-	-	21 1/4**	-	23	0.5	0.75	0.69	8.66	6.6	6.47
R74	-	-	20	-	-	(20 3/4)	-	23	0.75	1	0.94	12.32	12.95	12.75
R75	-	-	-	20	-	-	-	23	1.25	1.56	1.5	22.33	33.3	35.3
R76	24	-	-	-	-	-	-	26.5	0.313	0.56	0.5	5.23	3.66	3.38
R77	-	24	-	-	-	-	-	27.25	0.625	0.88	0.81	10.49	11.3	11.1
R78	-	-	24	-	-	-	-	27.25	1	1.31	1.25	17.3	27.1	27.58
R79	-	-	-	24	-	-	-	27.25	1.375	1.75	1.63	24.82	48.7	49.75
R80	22	-	-	-	-	-	-	24.25	0.313	-	0.5	5.23	-	3.11
R81	-	22	-	-	-	-	-	25	0.563	-	0.75	9.58	-	8.55
R82	-	-	-	-	-	-	-	2.25	0.438	-	0.63	7.75	-	0.508
R84	-	-	-	-	-	-	-	2.5	0.438	-	0.63	7.75	-	0.564
R85	-	-	-	-	-	-	-	3.125	0.5	-	0.69	8.66	-	0.978
R86	-	-	-	-	-	-	-	3.563	0.625	-	0.81	10.49	-	1.447
R87	-	-	-	-	-	-	-	3.938	0.625	-	0.81	10.49	-	1.597
R88	-	-	-	-	-	-	-	4.875	0.75	-	0.94	12.32	-	2.735
R89	-	-	-	-	-	-	-	4.5	0.75	-	0.94	12.32	-	2.528
R90	-	-	-	-	-	-	-	6.125	0.875	-	1.06	14.81	-	4.55
R91	-	-	-	-	-	-	-	10.25	1.25	-	1.5	22.33	-	15.05
R92	-	-	-	-	-	-	-	9	0.438	0.69	0.63	7.75	2.07	2.02
R93	-	26	-	-	-	-	-	29.5	0.75	-	0.94	12.32	-	16.33
R94	-	28	-	-	-	-	-	31.5	0.75	-	0.94	12.32	-	17.44
R95	-	30	-	-	-	-	-	33.75	0.75	-	0.94	12.32	-	18.69
R96	-	32	-	-	-	-	-	36	0.875	-	1.06	14.81	-	26.65
R97	-	34	-	-	-	-	-	38	0.875	-	1.06	14.81	-	28.13
R98	-	36	-	-	-	-	-	40.25	0.875	-	1.06	14.81	-	29.79
R99	-	-	-	-	-	-	-	9.25	0.438	-	0.63	7.75	-	2.08
R100	-	-	26	-	-	-	-	29.5	1.125	-	1.38	19.81	-	-
R101	-	-	28	-	-	-	-	31.5	1.25	-	1.5	22.33	-	-
R102	-	-	30	-	-	-	-	33.75	1.25	-	1.5	22.33	-	-
R103	-	-	32	-	-	-	-	36	1.25	-	1.5	22.33	-	-
R104	-	-	34	-	-	-	-	38	1.375	-	1.63	24.82	-	-
R105	-	-	36	-	-	-	-	40.25	1.375	-	1.63	24.82	-	-

General notes:

All dimensions are in millimeters.

Tolerances:

P = average pitch diameter of ring ±0.18

A = width of ring ±0.20

B&H = height of ring +1.3, -0.5

Variation in height throughout the entire circumference of any given ring shall not exceed 0.5 within these tolerances

C = width of flat on octagonal ring ±0.20

R1 = radius in ring ±0.5

23 ° = angle ±0 ° 30 min

Dimensional Chart

Ring Type Joint

Type - RX

Ring No.	PRESSURE CLASS RATING (PSI)			PITCH DIAMETER OF RING P	OUTSIDE DIAMETER OF RING OD	WIDTH OF RING A	HEIGHT OF RING H	WEIGHT lbs.
	2000	3000	5000					
	NOMINAL PIPE SIZE (INCHES)							
RX20	-	-	-	68.26	76.20	8.73	19.05	0.527
RX20	-	-	2 1/16	68.26	76.20	8.73	19.05	0.527
RX23	2 1/16	-	3 1/8	82.55	93.27	11.91	25.40	1.15
RX24	-	2 1/16	-	95.25	105.97	11.91	25.40	1.33
RX25+	-	-	2 9/16	101.60	109.54	8.73	19.05	1.42
RX26	2 9/16	-	-	101.60	111.92	11.91	25.40	1.50
RX27	-	2 9/16	3 1/8	107.95	118.27	11.91	25.40	1.73
RX31	3 1/8	3 1/8	-	123.83	134.54	11.91	25.40	1.91
RX35	-	-	4 1/16	136.53	147.24	11.91	25.40	2.09
RX37	4 1/16	4 1/16	-	149.23	159.94	11.91	25.40	2.27
RX39	-	-	-	161.93	172.64	11.91	25.40	2.54
RX41	-	-	-	180.98	191.69	11.91	25.40	2.72
RX44	-	-	7 1/16	193.68	204.39	11.91	25.40	2.96
RX45	7 1/16	7 1/16	-	211.14	211.93	11.91	25.40	3.66
RX46	-	-	-	211.14	222.25	13.49	28.58	8.56
RX47	-	-	9	228.60	245.27	19.84	41.28	3.79
RX49	9	9	-	269.88	280.59	11.91	25.40	5.36
RX50	-	-	11	269.88	283.37	16.67	31.75	4.56
RX53	11	11	-	323.85	334.57	11.91	25.40	6.45
RX54	-	-	-	323.85	337.34	16.67	31.75	5.36
RX57	13 5/8	13 5/8	-	381.00	391.72	11.91	25.40	26.40
RX63	-	-	-	419.10	441.72	26.99	50.80	6.63
RX65	16 3/4	-	-	469.90	480.62	11.91	25.40	9.39
RX66	-	16 3/4	-	469.90	483.39	16.67	31.75	7.52
RX69	-	-	-	533.40	544.12	11.91	25.40	20.14
RX70	-	-	-	533.40	550.07	19.84	41.28	11.63
RX73	21 1/4	-	-	584.20	596.11	13.49	31.75	22.10
RX74	-	20 3/4	-	584.20	600.87	19.84	41.28	0.790
RX82	-	-	-	57.15	67.87	1.1.91	25.40	0.880
RX84	-	-	-	63.50	74.22	11.91	25.40	0.880
RX85	-	-	-	79.38	90.09	13.49	25.40	1.79
RX86	-	-	-	90.49	103.58	15.08	28.58	1.98
RX87	-	-	-	100.01	113.11	15.08	28.58	3.22
RX88	-	-	-	123.83	139.30	17.46	31.75	2.90
RX89	-	-	-	114.30	129.78	18.26	31.75	6.82
RX90	-	-	-	155.58	174.63	19.84	44.45	17.10
RX91	-	-	-	260.35	286.94	30.16	45.24	3.31
RX99	-	-	-	234.95	245.67	11.91	25.40	-
RX201	-	-	1 3/8	46.04	46.04	5.74	11.30	-
*RX205T	-	-	1 13/16	57.15	62.31	5.56	11.10	-
RX210T	-	-	2 9/16	88.90	97.63	9.53	19.05	-
*RX215	-	-	4 1/16	130.18	140.89	11.91	25.40	-
*RX215T	-	-	4 1/16 x 4	130.18	140.89	11.91	25.40	-

General notes:

All dimensions are in millimeters.

Tolerances:

P = average pitch diameter of ring ± 0.18

A = width of ring ± 0.20

B&H = height of ring $\pm 1.3, -0.5$

Variation in height throughout the entire circumference of any given ring shall not exceed 0.5 within these tolerances

C = width of flat on octagonal ring ± 0.20

R1 = radius in ring ± 0.5

23 ° = angle $\pm 0 ° 30 \text{ min}$

Dimensions and Tolerances

Ring Type Joint

Type - BX

Ring No.	PRESSURE CLASS RATING				outside DIAMETER OF RING OD	WIDTH OF RING H	WIDTH OF RING A	HOLE SIZE D	GASKET WEIGHT, lbs. API 6BX FLANGES
	150	10000	15000	20000					
	NOMINAL PIPE SIZE (INCHES)								
BX150	-	-	-	-	72.19	9.3	9.3	1.59	0.295
BX151	-	1 13/16	1 13/16	1 13/16	76.4	9.63	9.63	1.59	0.337
BX152	-	2 1/16	2 1/16	2 1/16	84.68	10.24	10.24	1.59	0.425
BX153	-	2 9/16	2 9/16	2 9/16	100.94	11.38	11.38	1.59	0.632
BX154	-	3 1/16	3 1/16	3 1/16	116.84	12.4	12.4	1.59	0.875
BX155	-	4 1/16	4 1/16	4 1/16	147.96	14.22	14.22	1.59	1.22
BX156	-	7 1/16	7 1/16	7 1/16	237.92	18.62	18.62	3.18	4.14
BX157	-	9	9	9	294.46	20.98	20.98	3.18	6.55
BX158	-	11	11	11	352.04	23.14	23.14	3.18	9.6
BX159	-	13 5/8	13 5/8	13 5/8	426.72	25.7	25.7	3.18	14.41
BX160	13 5/8	-	-	-	402.59	23.83	13.74	3.18	6.75
BX161	16 3/4	-	-	-	491.41	28.07	16.21	3.18	-
BX162	16 3/4	16 3/4	16 3/4	-	475.49	14.22	14.22	1.59	-
BX163	18 3/4	-	-	-	556.16	30.1	17.37	3.18	-
BX164	-	18 3/4	18 3/4	-	570.56	30.1	24.59	3.18	-
BX165	21 1/4	-	-	-	624.71	32.03	18.49	3.18	-
BX166	-	21 1/4	-	-	640.03	32.03	26.14	3.18	-
BX167	-	-	-	-	759.36	35.87	13.11	1.59	-
BX168	-	-	-	-	765.25	35.87	16.05	1.59	-
BX169	-	-	-	-	173.51	15.85	12.93	1.59	-
BX170	-	-	-	-	218.03	14.22	14.22	1.59	-
BX171	-	-	-	-	267.44	14.22	14.22	1.59	-
BX172	-	-	-	-	333.07	14.22	14.22	1.59	-
BX303	-	-	-	-	852.75	37.95	16.97	1.59	-

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R1 = radius in ring ± 0.5

23 ° = angle $\pm 0 ° 30 \text{ min}$



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