



RING TYPE JOINT (RTJ)



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Ring Type Joint Gasket

Ring Joint Gaskets or called RTJ are type of metallic gasket. RTJ gaskets are made of metal and work by deforming into grooves in the flange, forming a tight joint even under high pressure and high temperature conditions. These advantages make RTJ gaskets the standard choice in the oil and gas, LNG, subsea, and many other sectors. These gasket shall be either octagonal or oval in cross section. Generally used for sealing at high temperature and high pressure at refinery unit at onshore and offshore facility. LNG facility are commonly use RTJ gasket cause this gasket can be operate on cyrogenic temperature. Oil and Gas also use this gasket from up-stream into down stream cause the fluids transported are often hot crude oil, refinery products, or fluids mixed with gases at high pressure and temperature. RTJ gasket design and specification refer to ASME B16.20 and suitable for Flange ASME B16.5 & B16.47 series A with RTJ face also applicable to API 6B flange and API 6BX flange.

SKM Ring Type Joints are manufactured in comply with the industry standards API 6A, API 17D, ASME B16.20 or to specific customer requirements. SKM produces these Ring Type Joints from fully traceable materials. Ring Type Joints manufactured to ASME B16.20 are permanently marked according to standard. Each Ring Type Joint manufactured to an API standard. Such full and Comprehensive traceability, from material source with mill certification.



Materials

The gasket material used must be appropriate for the service condition. Gaskets are always recommended to use softer material than mating flanges. Ring Type Connection material, with maximum provisions hardness and identification as specified in API 6A and ASME B16.20, shown in the table below. For more special and specific applications, Ring Type Connections can be used machined from Duplex steel and other exotic materials such as Inconel, Incoloy, and Hastelloy.

MATERIAL	MAXIMUM HARDNESS	
	Brinel	Rockwell (B)
Soft iron [Note 1]	90	56
Low-carbon steel	120	68
4-6 chrome 1/2Mo	130	72
Type 410	170	86
Type 304	160	83
Type 316	160	83
Type 347	160	83

NOTE: (1) May below-carbon steel,notto exceed maximum hardness of 90 Brinell — 56 Rockwell "B."

RING TYPE JOINT

ASME B16.20 AND API6A

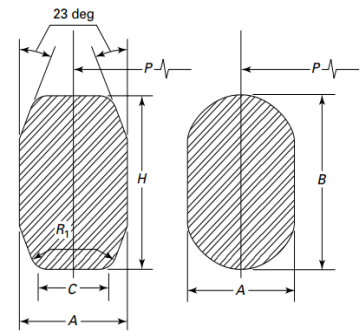
Type R

R style gasket have octagonal and oval in cross section area. This type suitable for ASME B16.5 & B16.47 series A flange with RTJ surface and also applicable for API 6B flange. Maximum pressure up to 5000 psi.



ASME B16.20-2023

Table RJ-5-1
Type R Ring Gasket Dimensions and Tolerances



Size : R11 to R105
Application : High Temperature
High Pressure
Standard : ASME
Pressure : 150 to 5000 PSI

Type R Gasket Dimension

Ring Number	Average Pitch Diameter of Ring, P, mm (in.)	Width of Ring, A, mm (in.)	Height of Ring, mm (in.)		Width of Flat on Octagonal Ring, C, mm (in.)	Radius in Octagonal Ring, R1, mm (in.)
			Oval, B	Octagonal, H		
R-11	34.14 (1.344)	6.35 (0.250)	11.2 (0.44)	9.7 (0.38)	4.32 (0.170)	1.5 (0.06)
R-12	39.70 (1.563)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-13	42.88 (1.688)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-14	44.45 (1.750)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-15	47.63 (1.875)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-16	50.80 (2.000)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-17	57.15 (2.250)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-18	60.33 (2.375)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-19	65.10 (2.563)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-20	68.28 (2.688)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-21	72.24 (2.844)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-22	82.65 (3.250)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-23	82.65 (3.250)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-24	95.25 (3.750)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-25	101.60 (4.000)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-26	101.60 (4.000)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-27	107.95 (4.250)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-28	111.13 (4.375)	12.70 (0.500)	19.1 (0.75)	17.5 (0.69)	8.66 (0.341)	1.5 (0.06)
R-29	114.30 (4.500)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-30	117.48 (4.625)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-31	123.83 (4.875)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-32	127.00 (5.000)	12.70 (0.500)	19.1 (0.75)	17.5 (0.69)	8.66 (0.341)	1.5 (0.06)
R-33	131.78 (5.188)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-34	131.78 (5.188)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)

Type R Gasket Dimension (Con't)

Ring Number	Average Pitch Diameter of Ring, P, mm (in.)	Width of Ring, A, mm (in.)	Height of Ring, mm (in.)		Width of Flat on Octagonal Ring, C, mm (in.)	Radius in Octagonal Ring, R1, mm (in.)
			Oval, B	Octagonal, H		
R-35	136.63 (5.375)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-36	149.23 (5.875)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-37	149.23 (5.875)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-38	157.18 (6.188)	15.88 (0.625)	22.4 (0.88)	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-39	161.93 (6.375)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-40	171.45 (6.750)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-41	180.98 (7.125)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-42	190.50 (7.500)	19.05 (0.750)	25.4 (1.00)	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-43	193.68 (7.625)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-44	193.68 (7.625)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-45	211.15 (8.313)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-46	211.15 (8.313)	12.70 (0.500)	19.1 (0.75)	17.5 (0.69)	8.66 (0.341)	1.5 (0.06)
R-47	228.60 (9.000)	19.05 (0.750)	25.4 (1.00)	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-48	247.65 (9.750)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-49	269.88 (10.625)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-50	269.88 (10.625)	15.88 (0.625)	22.4 (0.88)	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-51	279.40 (11.000)	22.23 (0.875)	28.7 (1.13)	26.9 (1.06)	14.81 (0.583)	1.5 (0.06)
R-52	304.80 (12.000)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-53	323.85 (12.750)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-54	323.85 (12.750)	15.88 (0.625)	22.4 (0.88)	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-55	342.90 (13.500)	28.58 (1.125)	36.6 (1.44)	35.1 (1.38)	19.81 (0.780)	2.3 (0.09)
R-56	381.00 (15.000)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-57	381.00 (15.000)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-58	381.00 (15.000)	22.23 (0.875)	28.7 (1.13)	26.9 (1.06)	14.81 (0.583)	1.5 (0.06)
R-59	396.88 (15.625)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-60	406.40 (16.000)	31.75 (1.250)	39.6 (1.56)	38.1 (1.50)	22.33 (0.879)	2.3 (0.09)
R-61	419.10 (16.500)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-62	419.10 (16.500)	15.88 (0.625)	22.4 (0.88)	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-63	419.10 (16.500)	25.40 (1.000)	33.3 (1.31)	31.8 (1.25)	17.30 (0.681)	2.3 (0.09)
R-64	454.03 (17.875)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-65	469.90 (18.500)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-66	469.90 (18.500)	15.88 (0.625)	22.4 (0.88)	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-67	469.90 (18.500)	28.58 (1.125)	36.6 (1.44)	35.1 (1.38)	19.81 (0.780)	2.3 (0.09)
R-68	517.53 (20.375)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-69	533.40 (21.000)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-70	533.40 (21.000)	19.05 (0.750)	25.4 (1.00)	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)

Type R Gasket Dimension (Con't)

Ring Number	Average Pitch Diameter of Ring, P, mm (in.)	Width of Ring, A, mm (in.)	Height of Ring, mm (in.)		Width of Flat on Octagonal Ring, C, mm (in.)	Radius in Octagonal Ring, R1, mm (in.)
			Oval, B	Octagonal, H		
R-71	533.40 (21.000)	28.58 (1.125)	36.6 (1.44)	35.1 (1.38)	19.81 (0.780)	2.3 (0.09)
R-72	558.80 (22.000)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-73	584.20 (23.000)	12.70 (0.500)	19.1 (0.75)	17.5 (0.69)	8.66 (0.341)	1.5 (0.06)
R-74	584.20 (23.000)	19.05 (0.750)	25.4 (1.00)	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-75	584.20 (23.000)	31.75 (1.250)	39.6 (1.56)	38.1 (1.50)	22.33 (0.879)	2.3 (0.09)
R-76	673.10 (26.500)	7.95 (0.313)	14.2 (0.56)	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-77	692.15 (27.250)	15.88 (0.625)	22.4 (0.88)	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-78	692.15 (27.250)	25.40 (1.000)	33.3 (1.31)	31.8 (1.25)	17.30 (0.681)	2.3 (0.09)
R-79	692.15 (27.250)	34.93 (1.375)	44.5 (1.75)	41.4 (1.63)	24.82 (0.977)	2.3 (0.09)
R-80	615.95 (24.250)	7.95 (0.313)	-	12.7 (0.50)	5.23 (0.206)	1.5 (0.06)
R-81	635.00 (25.000)	14.30 (0.563)	-	19.1 (0.75)	9.58 (0.377)	1.5 (0.06)
R-82	57.15 (2.250)	11.13 (0.438)	-	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-84	63.60 (2.500)	11.13 (0.438)	-	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-85	79.38 (3.125)	12.70 (0.500)	-	17.5 (0.69)	8.66 (0.341)	1.5 (0.06)
R-86	90.60 (3.563)	15.88 (0.625)	-	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-87	100.03 (3.938)	15.88 (0.625)	-	20.6 (0.81)	10.49 (0.413)	1.5 (0.06)
R-88	123.83 (4.875)	19.05 (0.750)	-	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-89	114.30 (4.500)	19.05 (0.750)	-	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-90	155.68 (6.125)	22.23 (0.875)	-	26.9 (1.06)	14.81 (0.583)	1.5 (0.06)
R-91	260.35 (10.250)	31.75 (1.250)	-	38.1 (1.50)	22.33 (0.879)	2.3 (0.09)
R-92	228.60 (9.000)	11.13 (0.438)	17.5 (0.69)	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-93	749.30 (29.500)	19.05 (0.750)	-	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-94	800.10 (31.500)	19.05 (0.750)	-	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-95	857.25 (33.750)	19.05 (0.750)	-	23.9 (0.94)	12.32 (0.485)	1.5 (0.06)
R-96	914.40 (36.000)	22.23 (0.875)	-	26.9 (1.06)	14.81 (0.583)	1.5 (0.06)
R-97	965.20 (38.000)	22.23 (0.875)	-	26.9 (1.06)	14.81 (0.583)	1.5 (0.06)
R-98	1 022.35 (40.250)	22.23 (0.875)	-	26.9 (1.06)	14.81 (0.583)	1.5 (0.06)
R-99	234.95 (9.250)	11.13 (0.438)	-	16.0 (0.63)	7.75 (0.305)	1.5 (0.06)
R-100	749.30 (29.500)	28.58 (1.125)	-	35.1 (1.38)	19.81 (0.780)	2.3 (0.09)
R-101	800.10 (31.500)	31.75 (1.250)	-	38.1 (1.50)	22.33 (0.879)	2.3 (0.09)
R-102	857.25 (33.750)	31.75 (1.250)	-	38.1 (1.50)	22.33 (0.879)	2.3 (0.09)
R-103	914.40 (36.000)	31.75 (1.250)	-	38.1 (1.50)	22.33 (0.879)	2.3 (0.09)
R-104	965.20 (38.000)	34.93 (1.375)	-	41.4 (1.63)	24.82 (0.977)	2.3 (0.09)
R-105	1 022.35 (40.250)	34.93 (1.375)	-	41.4 (1.63)	24.82 (0.977)	2.3 (0.09)

RING TYPE JOINT

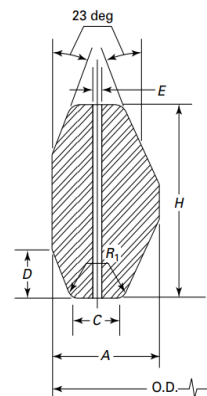
ASME B16.20 AND API6A

Type RX

RX style is R gasket with modification for higher pressure. Also have octagonal cross section area. This type suitable only for API 6B flange. Maximum pressure up to 5000 psi.



Table RJ-5-3
Type RX Ring Gasket Dimensions and Tolerances



Size : RX20 to RX215
Application : High Temperature
High Pressure
Standard : ASME
Pressure : 2000 to 5000 PSI

Type RX Gasket Dimension

Ring Number	Outside Diameter of Ring, O.D., mm (in.)	Width of Ring, A, mm (in.)	Width of Flat, C, mm (in.)	Height of outside Bevel, D, mm (in.)	Height of Ring, H, mm (in.)	Radius in Octagonal Ring, R1, mm (in.)	Hole Size, E, mm (in.) [Note 1]
RX-20	76.20 (3.000)	8.74 (0.344)	4.62 (0.182)	3.18 (0.125)	19.05 (0.750)	1.5 (0.06)	-
RX-23	93.27 (3.672)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-24	105.97 (4.172)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-25	109.55 (4.313)	8.74 (0.344)	4.62 (0.182)	3.18 (0.125)	19.05 (0.750)	1.5 (0.06)	-
RX-26	111.91 (4.406)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-27	118.26 (4.656)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-31	134.84 (5.297)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-35	147.24 (5.797)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-37	159.94 (6.297)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-39	172.64 (6.797)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-41	191.69 (7.547)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-44	204.39 (8.047)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-45	221.84 (8.734)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-46	222.25 (8.750)	13.49 (0.531)	6.68 (0.263)	4.78 (0.188)	28.58 (1.125)	1.5 (0.06)	-
RX-47	245.26 (9.656)	19.84 (0.781)	0.34 (0.407)	6.88 (0.271)	41.28 (1.625)	2.3 (0.09)	-
RX-49	280.69 (11.047)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-50	283.36 (11.156)	16.66 (0.656)	8.51 (0.335)	5.28 (0.208)	31.75 (1.250)	1.5 (0.06)	-
RX-53	334.67 (13.172)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-54	337.34 (13.281)	16.66 (0.656)	8.51 (0.335)	5.28 (0.208)	31.75 (1.250)	1.5 (0.06)	-
RX-57	391.72 (15.422)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-63	441.73 (17.391)	27.00 (1.063)	14.78 (0.582)	8.46 (0.333)	50.80 (2.000)	2.3 (0.09)	-
RX-65	480.62 (18.922)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-



Type RX Gasket Dimension (Con't)

Ring Number	Outside Diameter of Ring, O.D., mm (in.)	Width of Ring, A, mm (in.)	Width of Flat, C, mm (in.)	Height of outside Bevel, D, mm (in.)	Height of Ring, H, mm (in.)	Radius in Octagonal Ring, R1, mm (in.)	Hole Size, E, mm (in.) [Note 1]
RX-66	483.39 (19.031)	16.66(0.656)	8.51 (0.335)	5.28 (0.208)	31.75 (1.250)	1.5 (0.06)	-
RX-69	544.12 (21.422)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-70	550.06 (21.656)	19.84 (0.781)	10.34 (0.407)	6.88 (0.271)	41.28 (1.625)	2.3 (0.09)	-
RX-73	596.11 (23.469)	13.49 (0.531)	6.68 (0.263)	5.28 (0.208)	31.75 (1.250)	1.5 (0.06)	-
RX-74	600.86 (23.656)	19.84 (0.781)	10.34 (0.407)	6.88 (0.271)	41.28 (1.625)	2.3 (0.09)	-
RX-82	67.87 (2.672)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-84	74.22 (2.922)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-85	90.09 (3.547)	13.49 (0.531)	6.68 (0.263)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-86	103.58 (4.078)	15.09 (0.594)	8.51 (0.335)	4.78 (0.188)	28.58 (1.125)	1.5 (0.06)	-
RX-87	113.11 (4.453)	15.09 (0.594)	8.51 (0.335)	4.78 (0.188)	28.58 (1.125)	1.5 (0.06)	-
RX-88	139.29 (5.484)	17.48 (0.688)	10.34 (0.407)	5.28 (0.208)	31.75 (1.250)	1.5 (0.06)	-
RX-89	129.77 (5.109)	18.26 (0.719)	10.34 (0.407)	5.28 (0.208)	31.75 (1.250)	1.5 (0.06)	-
RX-90	174.63 (6.875)	19.84 (0.781)	12.17 (0.479)	7.42 (0.292)	44.45 (1.750)	2.3 (0.09)	-
RX-91	286.94 (11.297)	30.18 (1.188)	19.81 (0.780)	7.64 (0.297)	45.24 (1.781)	2.3 (0.09)	-
RX-99	245.67 (9.672)	11.91 (0.469)	6.45 (0.254)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-
RX-201	51.46 (2.026)	5.74 (0.226)	3.20 (0.126)	1.45 (0.057)	11.30 (0.445)	0.5 (0.02)	-
RX-205	62.31 (2.453)	5.56 (0.219)	3.05 (0.120)	1.83 (0.072)	11.10 (0.437)	0.5 (0.02)	-
RX-210	97.64 (3.844)	9.53 (0.375)	5.41 (0.213)	3.18 (0.125)	19.05 (0.750)	0.8 (0.03)	-
RX-215	140.89 (5.547)	11.91 (0.469)	5.33 (0.210)	4.24 (0.167)	25.40 (1.000)	1.5 (0.06)	-

RING TYPE JOINT

ASME B16.20, API6A AND API 17D

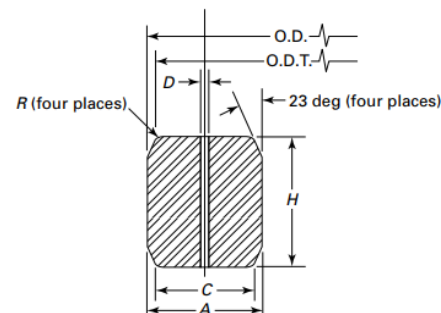
Type BX

ASME B16.20-2023

BX style gasket is constructed for highest pressure up to 20,000 psi and has a pressure channel hole to balance the pressure in the groove. This type only suitable for API 6BX flange.



Table RJ-5-5
Type BX Ring Gasket Dimensions and Tolerances



Size : BX150 to BX303
Application : High Temperature
High Pressure
Standard : ASME
Pressure : 10,000 to 20,000

Type BX Gasket Dimension

Ring Number	Nominal Size, mm (in.)	Outside Diameter of Ring, O.D., mm (in.)	Height of Ring, H, mm (in.)	Width of Ring, A, mm (in.)	Outside Diameter of Flat, O.D.T., mm (in.)	Width of Flat, C, mm (in.)	Hole Size, D, mm (in.) [Note 1]
BX-150	43 (1-11/16)	72.19 (2.842)	9.30 (0.366)	9.30 (0.366)	70.87 (2.790)	7.98 (0.314)	1.5 (0.06)
BX-151	46 (1-13/16)	76.40 (3.008)	9.63 (0.379)	9.63 (0.379)	75.03 (2.954)	8.26 (0.325)	1.5 (0.06)
BX-152	52 (2-1/16)	84.68 (3.334)	10.24 (0.403)	10.24 (0.403)	83.24 (3.277)	8.79 (0.346)	1.5 (0.06)
BX-153	65 (2-9/16)	100.94 (3.974)	11.38 (0.448)	11.38 (0.448)	99.31 (3.910)	9.78 (0.385)	1.5 (0.06)
BX-154	78 (3-1/16)	116.84 (4.600)	12.40 (0.488)	12.40 (0.488)	115.09 (4.531)	10.64 (0.419)	1.5 (0.06)
BX-155	103 (4-1/16)	147.96 (5.825)	14.22 (0.560)	14.22 (0.560)	145.95 (5.746)	12.22 (0.481)	1.5 (0.06)
BX-156	179 (7-1/16)	237.92 (9.367)	18.62 (0.733)	18.62 (0.733)	235.28 (9.263)	15.98 (0.629)	3.0 (0.12)
BX-157	229 (9)	294.46 (11.593)	20.98 (0.826)	20.98 (0.826)	291.49 (11.476)	18.01 (0.709)	3.0 (0.12)
BX-158	279 (11)	352.04 (13.860)	23.14 (0.911)	23.14 (0.911)	348.77 (13.731)	19.86 (0.782)	3.0 (0.12)
BX-159	346 (13-5/8)	426.72 (16.800)	25.70 (1.012)	25.70 (1.012)	423.09 (16.657)	22.07 (0.869)	3.0 (0.12)
BX-160	346 (13-5/8)	402.59 (15.850)	23.83 (0.938)	13.74 (0.541)	399.21 (15.717)	10.36 (0.408)	3.0 (0.12)
BX-161	422 (16-5/8)	491.41 (19.347)	28.07 (1.105)	16.21 (0.638)	487.45 (19.191)	12.24 (0.482)	3.0 (0.12)
BX-162	422 (16-5/8)	475.49 (18.720)	14.22 (0.560)	14.22 (0.560)	473.48 (18.641)	12.22 (0.481)	1.5 (0.06)
BX-163	476 (18-3/4)	556.16 (21.896)	30.10 (1.185)	17.37 (0.684)	551.89 (21.728)	13.11 (0.516)	3.0 (0.12)
BX-164	476 (18-3/4)	570.56 (22.463)	30.10 (1.185)	24.59 (0.968)	566.29 (22.295)	20.32 (0.800)	3.0 (0.12)
BX-165	540 (21-1/4)	624.71 (24.595)	32.03 (1.261)	18.49 (0.728)	620.19 (24.417)	13.97 (0.550)	3.0 (0.12)
BX-166	540 (21-1/4)	640.03 (25.198)	32.03 (1.261)	26.14 (1.029)	635.51 (25.020)	21.62 (0.851)	3.0 (0.12)
BX-167	680 (26-3/4)	759.36 (29.896)	35.86 (1.412)	13.11 (0.516)	754.28 (29.696)	8.03 (0.316)	1.5 (0.06)
BX-168	680 (26-3/4)	765.25 (30.128)	35.86 (1.412)	16.05 (0.632)	760.17 (29.928)	10.97 (0.432)	1.5 (0.06)
BX-169	130 (5-1/8)	173.51 (6.831)	15.85 (0.624)	12.93 (0.509)	171.27 (6.743)	10.69 (0.421)	1.5 (0.06)
BX-170	168 (6-5/8)	218.03 (8.584)	14.22 (0.560)	14.22 (0.560)	216.03 (8.505)	12.22 (0.481)	1.5 (0.06)
BX-171	218 (8-9/16)	267.44 (10.529)	14.22 (0.560)	14.22 (0.560)	265.43 (10.450)	12.22 (0.481)	1.5 (0.06)
BX-172	283 (11-5/32)	333.07 (13.113)	14.22 (0.560)	14.22 (0.560)	331.06 (13.034)	12.22 (0.481)	1.5 (0.06)
BX-303	762 (30)	852.75 (33.573)	37.95 (1.494)	16.97 (0.668)	847.37 (33.361)	11.61 (0.457)	1.5 (0.06)



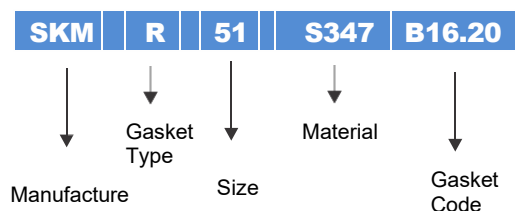
Identification Marking

MATERIAL	IDENTIFICATION	MARKING EXAMPLE
Soft iron [Note 2]	D	R51D
Low-carbon steel	S	R51S
4-6 chrome 1/2Mo	F5 [Note 3]	R51F5
Type 410	S410	R51S410
Type 304	S304	R51S304
Type 316	S316	R51S316
Type 347	S347	R51S347

NOTES:

- (1) This number shall be preceded by the manufacturer's name or identification trademark.
- (2) May be low-carbon steel, not to exceed maximum hardness of 90 Brinell — 56 Rockwell "B."
- (3) F5 identification designates ASTM specification A182-72 chemical composition requirements only.

Marking



The outer surface of each gasket has marking standards. Manufacturer's name or identification trademark. Numbers starting with the letters R, RX, or BX identify the type of gasket, followed by with the identification of the gasket material. Material must identified as shown in Table. The gasket must be also marked with the designation ASME B16.20. That markings must be applied so as not to cause dangerous distortions gasket or affect the integrity of the seal.

GASKET SOLUTION & SERVICE



MANUFACTURE :

SK Metalindo

021 - 89144174

marketing.gasket@skmetalindo.com

www.skmetalindo.com

Jln. Raya Lemahabang No.Km.59

Kec.Cikarang Timur, Kab.Bekasi.

Jawa Barat 17530