

RTJ – RX Type

the Style **RX** is an adaptation of the standard Style **R** which is energized when the assembly is pressurized. 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 energizing effect when the assembly is pressurized, improving the efficiency of the seal. Designs are also available for subsea applications on existing assets, however, current API 17D does not support use of SRX ring type Joints.



API 6B				Tolerance	+0.50/-0-mm	+0.20/-0-mm	+0.15/-0 mm	+0/-0.8 mm	+0.20/-0mm	±0.50mm	±0.50 mm
720 -960 and 2000	2900	3000	5000	RX	OD (mm)	A (mm)	'C' Width (mm)	Height of Outside Bevel 'D' (mm)	H (mm)	Radius between flat and angle sealing face 'R' (mm)	One pressure passage hole
1 1/2		1 1/2	1 1/2	RX 20	76.20	8.74	4.62	3.18	19.05	1.50	-
2		RX 23	93.27	11.91	6.45	4.24	25.40	1.50	-
....		2	2	RX 24	105.97	11.91	6.45	4.24	25.40	1.50	-
....		3 1/8	RX 25	109.55	8.74	4.62	3.18	19.05	1.50	-
2 1/2		RX 26	111.91	11.91	6.45	4.24	25.40	1.50	-
....	2 1/2	2 1/2	RX 27	118.26	11.91	6.45	4.24	25.40	1.50	-
3	3	....	RX 31	134.54	11.91	6.45	4.24	25.40	1.50	-
....	3	RX 35	147.24	11.91	6.45	4.24	25.40	1.50	-
4	4	....	RX 37	159.94	11.91	6.45	4.24	25.40	1.50	-
....	4	RX 39	172.64	11.91	6.45	4.24	25.40	1.50	-
5	5	....	RX 41	191.69	11.91	6.45	4.24	25.40	1.50	-
....	5	RX 44	204.39	11.91	6.45	4.24	25.40	1.50	-
6	6	....	RX 45	221.84	11.91	6.45	4.24	25.40	1.50	-
....	6	RX 46	222.25	13.49	6.68	4.78	28.58	1.50	-
....	8 (2)	RX 47	245.26	19.84	10.34	6.88	41.28	2.30	-
8	8	....	RX 49	280.59	11.91	6.45	4.24	25.40	1.50	-
....	8	RX 50	283.36	16.66	8.51	5.28	31.75	1.50	-
10	10	....	RX 53	334.57	11.91	6.45	4.24	25.40	1.50	-
....	10	RX 54	337.34	16.66	8.51	5.28	31.75	1.50	-
12	12	....	RX 57	391.72	11.91	6.45	4.24	25.40	1.50	-
....	14	RX 63	441.73	27.00	14.78	8.46	50.80	2.30	-

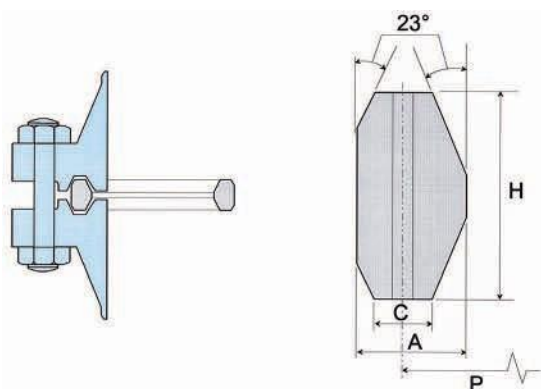
GENERAL NOTES

Dimensions in mm. Figures stated are for information only. 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 on width throughout the entire circumference of any ring shall not exceed 0.10 within tolerances.

DIMENSIONAL DATA - STYLE RX



STYLE RX TOLERANCES

Dimension	Tolerances (mm)		
	API 6A	ASMEB16.20	
A	Width of ring	+0.20/-0.0	+0.20/-0.00
C	Width of flat	+0.15/-0.0	+0.15/-0.00
D	Height of outside bevel	+0.0/-0.8	+0.0/-0.76
H	Height of ring	+0.20/-0.0	+0.20/-0.00
OD	Outside diameter	+0.5/-0.0	+0.51/-0.00
P	Average pitch diameter	±0.13	not given
23°	Angle of sealing face	±0° 30'	±0° 30'

NOTE 1:

The pressure passage hole illustrated in the Ring Type Joint cross section ensures equalization of pressure that may be generated in the grooves when the flange assembly is closed. These pressure passage holes are mandatory in the ring sizes RX82-91 inclusive. Centre line of hole shall be located at mid-point of dimension "C" (width of flat). Hole diameter shall be as follows:

- 1.5mm ±0.5 for rings RX82 through RX85;
- 2.3mm ±0.5 (2.4mm ±0.5 for API 6A) for rings RX86 and RX87;
- 3.0mm ±0.5 for rings RX88 through RX91.

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

API 6B				Tolerance	+0.50/-0-mm	+0.20/-0-mm	+0.15/-0 mm	+0/-0.8 mm	+0.20/-0 mm	±0.50mm	±0.50 mm
720 -960 and 2000	2900	3000	5000	RX	OD (mm)	A (mm)	'C' Width (mm)	Height of Outside Bevel 'D' (mm)	H (mm)	Radius between flat and angle sealing face 'R' (mm)	One pressure passage hole
16	....	....	....	RX 65	480.62	11.91	6.45	4.24	25.40	1.50	-
....	....	16	....	RX 66	483.39	16.66	8.51	5.28	31.75	1.50	-
18	....	....	....	RX 69	544.12	11.91	6.45	4.24	25.40	1.50	-
....	....	18	....	RX 70	550.06	19.84	10.34	6.88	41.28	2.30	-
20	....	....	....	RX 73	596.11	13.49	6.68	5.28	31.75	1.50	-
....	....	20	....	RX 74	600.86	19.84	10.34	6.88	41.28	2.30	-
....	1	....	....	RX 82	67.87	11.91	6.45	4.24	25.40	1.50	1.50
....	1 1/2	....	....	RX 84	74.22	11.91	6.45	4.24	25.40	1.50	1.50
....	2	....	....	RX 85	90.09	13.49	6.68	4.24	25.40	1.50	1.50
....	2 1/2	....	....	RX 86	103.58	15.09	8.51	4.78	28.58	1.50	2.40
....	3	....	....	RX 87	113.11	15.09	8.51	4.78	28.58	1.50	2.40
....	4	....	....	RX 88	139.29	17.48	10.34	5.28	31.75	1.50	3.00
....	3 1/2	....	....	RX 89	129.77	18.26	10.34	5.28	31.75	1.50	3.00
....	5	....	....	RX 90	174.63	19.84	12.17	7.42	44.45	2.30	3.00
....	10	....	....	RX 91	286.94	30.18	19.81	7.54	45.24	2.30	3.00
8 (2)	....	8 (2)	....	RX 99	245.67	11.91	6.45	4.24	25.40	1.50	-
....	....	....	1 3/8	RX 201	51.46	5.74	3.20	1.45 (2~API)	11.30	0.5 (3)	-
....	....	....	1 13/16	RX 205	62.31	5.56	3.05	1.83 (2)	11.10	0.5 (3)	-
....	....	....	2 9/16	RX 210	97.64	9.53	5.41	3.18 (2)	19.05	0.8 (3)	-
....	....	....	4 1/16	RX 215	140.89	11.91	5.33	4.24 (2)	25.40	1.5 (3)	-

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,+/-0deg 30 min. E=hole size. +/-0.5

NOTES

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