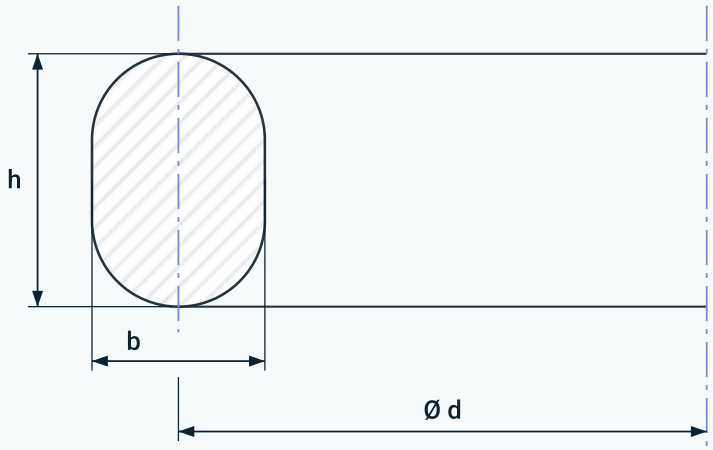
Revoseal RJ-O Data Sheet

Ring joint gasket, oval design.





PRODUCT DESCRIPTION

revoseal ring joint gaskets of the RJ series are used primarily in refineries and in the petrochemical industry. The oval RJ-O is particularly suitable for flanges in existing plants and is widely used in refineries and high-pressure pipelines. The reference standards are ASME B16.20 and API 6A.

KEY BENEFITS

- Ideal for very high pressures
- High compressive strength
- Wide choice of designs and alloys
- Ideal for the oil and gas sector

TECHNICAL DATA

Design	Ring joint gasket, oval (type R)
Manufacturing standard	ASME B16.20
Gasket standard	ASME B16.20, API 6A
Flange standard	ANSI B16.5, ANSI B16.47 Table A
Materials	Soft iron, stainless steel 304, 316, 321, 347, Alloy 400, 600, 625, 800, 825, Hastelloy C276, B2 other materials on request

Materials and marking

Designation	Material no.	Hardness (HB)	US type AISI	Marking
Pure iron, Armco	1.1003	90–100	Soft-Iron	D
Low-carbon steel	–	120	Low-Carbon-Steel	S
13 CrMo 44	1.7335	approx. 130	–	7335
12 CrMo 19 5	1.7362	approx. 130	501	F5
X6 Cr 13	1.4000	approx. 170	410S	S 410
X5 CrNi 1810	1.4301	approx. 160	304	S 304
X5 CrNiMo 17122	1.4401	approx. 160	316	S 316
X6 CrNiTi 1810	1.4541	approx. 160	321	S 321
X6 CrNiNb 1810	1.4550	approx. 160	347	S 347
X6 CrNiMoTi 17122	1.4571	approx. 160	316 Ti	316 Ti

Materials to ASTM

Material	UNS	Brinell HB	Vickers HV	Material code
ASTM Soft Iron	G10060	90	56	D
ASTM Carbon Steel	G10080	120	68	S
ASTM 4–6 Cr ½ Mo	K41545	130	72	F5
ASTM AISI 410	S41000	170	86	S 410
ASTM AISI 304	S30400	160	83	S 304
ASTM AISI 316L	S31603	160	83	S 316
ASTM AISI 347	S34700	160	83	S 347

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Dimension table type RJ-O

to ANSI B16.20 or API Std. 6A

Ring	[DN] inch	[PN] lbs	Ring dimensions		
			d	b	h
R11	½	300 – 600	34.13	6.35	11.11
R12	½	900 – 1500	39.68	7.93	14.28
R13	½	2500	42.86	7.93	14.28
R13	¾	300 – 600	42.86	7.93	14.28
R14	¾	900 – 1500	44.45	7.93	14.28
R15	1	150	47.62	7.93	14.28
R16	¾	2500	50.80	7.93	14.28
R16	1	300 – 1500	50.80	7.93	14.28
R17	1 ¼	150	57.15	7.93	14.28
R18	1	2500	60.32	7.93	14.28
R18	1 ¼	300 – 1500	60.32	7.93	14.28
R19	1 ½	150	65.08	7.93	14.28
R20	1 ½	300 – 1500	68.26	7.93	14.28
R21	1 ¼	2500	72.23	11.11	17.46
R22	2	150	82.55	7.93	14.28
R23	1 ½	2500	82.55	11.11	17.46
R23	2	300 – 600	82.55	11.11	17.46
R24	2	900 – 1500	95.25	11.11	17.46
R25	2 ½	150	101.60	7.93	14.28
R26	2	2500	101.60	11.11	17.46
R26	2 ½	300 – 600	101.60	11.11	17.46
R27	2 ½	900 – 1500	107.95	11.11	17.46
R28	2 ½	2500	111.12	12.70	19.05
R29	3	150	114.30	7.93	14.28
R30	3	300 – 600	117.47	11.11	17.46
R31	3	300 – 900	123.82	11.11	17.46
R32	3	2500	127.00	12.70	19.05
R33	3 ½	150	131.76	7.93	14.28
R34	3 ½	300 – 600	131.76	11.11	17.46
R35	3	1500	136.52	11.11	17.46
R36	4	150	149.22	7.93	14.28
R37	4	300 – 900	149.22	11.11	17.46
R38	4	2500	157.16	15.87	22.22
R39	4	1500	161.92	11.11	17.46
R40	5	150	171.45	7.93	14.28
R41	5	300 – 900	180.97	11.11	17.46
R42	5	2500	190.50	19.05	25.40
R43	6	150	193.67	7.93	14.28
R44	5	1500	193.67	11.11	17.46
R45	6	300 – 900	211.13	11.11	17.46
R46	6	1500	211.13	12.70	19.05
R47	6	2500	228.60	19.05	25.40
R48	8	150	247.65	7.93	14.28
R49	8	300 – 900	269.87	11.11	17.46
R50	8	1500	269.87	15.87	22.22
R51	8	2500	279.40	22.22	25.57
R52	10	150	304.80	7.93	14.28
R53	10	300 – 900	323.85	11.11	17.46
R54	10	1500	323.85	15.87	22.22
R55	10	2500	342.90	28.57	36.51

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Dimension table type RJ-O (continued)

Ring	[DN] inch	[PN] lbs	Ring dimensions		
			d	b	h
R56	12	150	381.00	7.93	14.28
R57	12	300 – 900	381.00	11.11	17.46
R58	12	1500	381.00	22.22	28.57
R59	14	150	396.87	7.93	14.28
R60	12	2500	406.40	31.75	39.68
R61	14	300 – 600	419.10	11.11	17.46
R62	14	900	419.10	15.87	22.22
R63	14	1500	419.10	25.40	33.33
R64	16	150	454.02	7.93	14.28
R65	16	300 – 600	469.90	11.11	17.46
R66	16	900	469.90	15.87	22.22
R67	16	1500	469.90	28.57	36.51
R68	18	150	517.52	7.93	14.28
R69	18	300 – 600	533.40	11.11	17.46
R70	18	900	533.40	19.05	25.40
R71	18	1500	533.40	28.57	36.51
R72	20	150	558.80	7.93	14.28
R73	20	300 – 600	584.20	12.70	19.05
R74	20	900	584.20	19.05	25.40
R75	20	1500	584.20	31.75	39.68
R76	24	150	673.10	7.93	14.28
R77	24	300 – 600	692.15	15.87	22.22
R78	24	900	692.15	25.40	33.33
R79	24	1500	692.15	34.92	44.45
R80	22	150	615.95	7.93	–
R81	22	300 – 600	635.00	14.28	–
R82	1	10000	57.15	11.11	–
R84	1 ½	10000	63.50	11.11	–
R85	2	10000	79.37	12.70	–
R86	2 ½	10000	90.49	15.87	–
R87	3	10000	100.01	15.87	–
R88	4	10000	123.83	19.05	–
R89	3 ½	10000	114.30	19.05	–
R90	5	10000	155.58	22.22	–
R91	10	10000	260.35	31.75	–
R92	X	–	228.60	11.11	17.46
R93	26	300 – 600	749.30	19.05	–
R94	28	300 – 600	800.10	19.05	–
R95	30	300 – 600	857.25	19.05	–
R96	32	300 – 600	914.40	22.22	–
R97	34	300 – 600	965.20	22.22	–
R98	36	300 – 600	1022.35	22.22	–
R99	8	2000 – 3000	234.95	11.11	–
R100	26	900	749.30	28.57	–
R101	28	900	800.10	31.75	–
R102	30	900	857.25	31.75	–
R103	32	900	914.40	31.75	–
R104	34	900	965.20	34.92	–
R105	36	900	1022.35	34.92	–

X Not covered by the standard. Other dimensions available. Tolerances: d ± 0.18 mm, b ± 0.2 mm, ho and hk ± 0.4 mm. Design to revoseal company standard.