

Leader Ring Joint Type R Octagonal High Integrity Metallic Sealing



Description

Leader ring type joint flange gaskets (RTJ gaskets) are used in applications that involve extreme pressures and high temperatures. All Leader ring type joint gaskets are manufactured in compliance with API-6A and ANSI B16.2 specifications. Whether you are looking for a standard ring type joint gasket or custom design assemblies, our team of application engineers have the product and application know-how to find the right solution for your specific application.

Sealing Characteristics

- Non blow-out type;
- Interchangeable with other R Oval, Octagonal and RX type gaskets;
- Solid metallic gaskets such as ring joint gaskets exhibit minimum recovery characteristics.

Please note, the gaskets require sufficient surface pressure. This is especially the case for applications with large fluctuations in temperature.

Application

- Ring Joint gaskets are widely used between pipeline flanges, valves and pressure vessels in the Oil & Gas industry;
- Withstand high pressure situations up to 400 bar (pending on flange construction and rating);

- Style R gaskets are suitable for ASME B16.5 flanges up to 2500 lbs. API 6A type 6B flanges can withstand a pressure up to 5000 psi.

Chemical compatibility, pressure and temperature

Corrosion and chemical resistance depend on the selected RTJ gasket material. The pressure and temperature ranges can be found in the Technical Specifications, see table 1.

Delivery options

Octagonal shaped RTJ gaskets are available in ring numbers R11 up to R105. ERIKS can produce custom made gaskets according to customer specifications.

ERIKS has a large stock in Soft Iron and SS316(L) materials. Other materials are also available, see table 2.

Approvals and Certificates

Leader Ring Joint gaskets are manufactured in strict accordance with API 6A (ISO 10423) and ASME B16.20 specifications.

EN10.204 3.1 certificates can be delivered on request, as well as a NACE MR0175/ISO 15156 conformity statement.

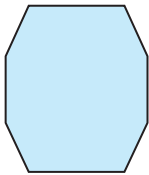


Table 1: Technical data

Max. Pressure	400 bar (40 Mpa)
Min- en maximum temperatures	see material table below
Maximum pressure and temperatures	acc. ASME B16.5 and API 6A
M-value (ASME Boiler & Pressure Vessel code Div. I, section VIII, Appendix 2) :	
Soft Iron (D) and Soft Steel (S)	5,5
Monel and F5 (4-6% Cr + 0,5% Mo)	6
Stainless Steel	6,5
y-value (ASME Boiler & Pressure Vessel code Div. I, section VIII, Appendix 2) :	
Soft Iron (D) and Soft Steel (S)	18000 psi (124 Mpa)
Monel and F5 (4-6% Cr + 0,5% Mo)	21800 psi (150 Mpa)
Stainless Steel	26000 psi (179 Mpa)
Gasket- and required flange roughness (Ra)	Ra = 1,6 micron max.
Gasket- and required flange roughness (RMS)	RMS = 63 max.

Table 2: Materials

	Identification	Max. Hardness Rockwell B	Max. Hardness Brinell	Temperature Range
	ASME B16.20 / API 6A	EN-ISO 6508	EN-ISO 6506	Degrees C.
Soft Iron	D	56	90	- 40 / + 500
Low Carbon Steel	S	68	120	- 25 / + 500
4-6 % Chrome - 1/2 % Molybdenum (F5)	F5	72	130	- 25 / + 550
SS304(L)	S304(L)	83	160	- 200 / + 550
SS316(L)	S316(L)	83	160	- 100 / + 550
SS321	S321	83	160	- 200 / + 550
SS347	S347	83	160	- 200 / + 550
SS410	S410	86	170	- 50 / + 500
Duplex (ASTM A182-F51) / SAF 2205 / 1.4462	S31803	98	220	- 60 / + 300
Avesta 254 SMO (6Mo)	S31254	92	195	- 100 / + 550
Nickel 200	N02200	71	125	- 100 / + 450
Nickel 201	N02201	71	125	- 100 / + 550
Monel® / Alloy 400	N04400	72	130	- 50 / + 500
Inconel® / Alloy 600	N06600	91	190	- 100 / + 650
Inconel® / Alloy 625	N06625	93	200	- 100 / + 800
Incoloy® / Alloy 800	N08800	88	180	- 100 / + 700
Incoloy® / Alloy 800H	N08810	88	180	- 100 / + 800
Incoloy® / Alloy 825	N08825	88	180	- 100 / + 550
Hasteloy® / Alloy B2	N010665	95	210	- 100 / + 500
Hasteloy® / Alloy C276	N010276	93	200	- 100 / + 600
1) This information is for general reference only. It does not take into consideration specific application conditions such as pressure or process fluid.				
2) Special hardness requirements on request.				

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