

Leader Ring Type Joint R Oval

Ring Type Joint Gaskets

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 ASME B16.20.

APPLICATION

Ring Joint gaskets are widely used between pipeline flanges, valves and pressure vessels in the Oil & Gas industry. High pressure up to 400 bar (pending on flange construction and rating) Style R gaskets are suitable for ASME B16.5 ring joint flanges up to 2500 lbs. In case API 6A type 6B flanges are used, pressure up to 5000 psi can be applied.

CHEMICAL COMPATIBILITY

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

Oval shaped RTJ gaskets are available in ring numbers R11 up to R105. Leader is able to produce custom made gaskets according to customer specifications. Common stock materials Soft Iron and SS316(L). Other materials are also available, please to table.

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.

APPROVALS & CERTIFICATES

- ASME B16.20
- API 6A (ISO 10423)
- EN10.204 3.1

SEALING CHARACTERISTICS

- Non blow-out type

TECHNICAL DATA

max Temperature [°F]	See material table below
max Pressure [psi]	ASME B16.5 2500 Class
M-value Soft Iron (D) and Soft Steel (S)	5.5
M-value Stainless steel	6.5
M-value Monel and F5	6
Y-value Soft Iron (D) and Soft Steel (S) [psi]	18000
Y-value Stainless Steel [psi]	26000
Y-value Monel and F5 [psi]	21800
Gasket required flange roughness [Ra micron]	1,6 max.
Gasket required flange roughness [RMS]	63 max.

METALLIC MATERIALS

Identification	Color coding	Temperature Range
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LOCATIONS

850 Sense Road LA PORTE, TX 77571, USA GLOBAL HEADQUARTERS

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METALLIC MATERIALS			
	ASME B16.20	ASME B16.20	Degrees C.
Carbon Steel	CRS	Silver	- 25 / + 500
SS304(L)	304(L)	Yellow	- 200 / + 900
SS316(L)	316(L)	Green	- 100 / +550
SS321	321	Turquoise	-200/+550
SS347	347	Blue	-200/+550
Duplex (ASTM A182-F51)	31803	No colour	-60/+300
Avesta 254 SMO (6Mo)	31254	No colour	-100/+550
Carpenter 20 CB3	A20	Black	-100/+500
Nickel 200	NI200	Red	-100/+450
Nickel 201	NI201	Red	-100/+550
Monel® / Alloy 400	MON	Orange	-50/+500
Inconel® / Alloy 600	INC600	Gold	-100/+650
Inconel® / Alloy 625	INC625	Gold	-100/+800
Inconel® / Alloy X-750	INX	No colour	-100/+700
Incoloy® / Alloy 800	IN800	White	-100/+550
Incoloy® / Alloy 825	IN825	White	-200/+800
Hasteloy® / Alloy B2	HAST B	Brown	-100/+500
Hasteloy® / Alloy C276	HAST C	Beige	-100/+600
Titanium	TI	Purple	-100/+350
Zirconium	ZIRC	No colour	-50/+900

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