



Leader Ring Type Joint R Oval

Ring Type Joint Gaskets



DESCRIPTION

Leader Ring Joint gaskets have been developed for heavy duty use in the petroleum industry. Specific applications are wellhead and Christmas tree, drilling and oil & gas equipment. These precision machined metallic gaskets are suitable for high temperature and pressure applications. The grooved ASME B16.5- or API 6A flanges form a high integrity seal. The main seal is obtained through the plastic deformation of the gasket material. The seal is enhanced by the overall shape of the oval RTJ.

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.

SEALING CHARACTERISTICS

- Non blow-out type

TECHNICAL DATA

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
ASME B16.20	ASME B16.20	Degrees C.
Carbon Steel	CRS	- 25 / + 500
SS304(L)	304(L)	- 200 / + 900

METALLIC MATERIALS

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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