

Leader Ring Type Joint BX

Ring Type Joint Gaskets

DESCRIPTION

Leader Ring Joint gaskets are developed for use in the petroleum industry and in particular for wellhead and Christmas tree- as well as drilling and oil & gas production equipment. These solid precision machined metallic gaskets, also called and known as ring type joint (RTJ) gaskets are suitable for the highest possible pressure and temperature duties and form together with special grooved API 6A (ISO 10423) type 6BX flanges a high integrity seal. BX ring gaskets are manufactured in a special symmetric shape of the cross-section. The width of the sealing faces is small and high seating stresses can be formed. Dimensions of gaskets and corresponding grooves are designed in such a way that style BX gaskets do become self-sealing characteristics. This effect is also known as pressure energized sealing.

APPLICATION

Ring Joint gaskets are widely used between pipeline flanges, valves and pressure vessels in the Oil & Gas industry. High

operating pressure up to 1378 bar when applied in API 6B. BX gaskets are suitable for API 6A (ISO 10423) type 6X flanges for working pressure rated 5000, 10000 and 20000 lbs flanges.

CHEMICAL COMPATIBILITY

Corrosion and chemical resistance are depending on the selected RTJ gasket material. For pressure and temperature range we refer to Technical Specifications, as per table 1.

DELIVERY OPTIONS

BX shaped RTJ gaskets are available in ring numbers BX150 up to BX303. Special gaskets in non-standard dimensions can be manufactured upon request. Soft Iron and SS316L are common stock materials, other materials are also available, please refer to table . These gaskets are designed according to the API 17D (ISO 13628-4) norm. This variant is designed for subsea applications. Please consult Leader for further information regarding specific product information.

TEMPERATURE

Corrosion and chemical resistance are depending on the selected RTJ gasket material. For pressure and temperature range we refer to Technical Specifications, as per table 1.

APPROVALS & CERTIFICATES

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

SEALING CHARACTERISTICS

- Solid metallic gaskets such as ring joint gasket exhibit minimum recovery characteristics
- Non blow-out type

TECHNICAL DATA

max Temperature [°C]	See material table below
min Temperature [°C]	See material table below
max Pressure [bar]	1400
M-value Soft Iron (D) and Soft Steel (S)	5.5
M-value Stainless steel	6.5

LOCATIONS

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

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TECHNICAL DATA

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	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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