



# RING TYPE JOINT RTJ

## Composition

Available RTJ Types:

- Types R, RX and BX in accordance to ASME B16.20 and API6A
- Type IX in accordance to Norsok L-005 IX
- Type SRX and SBX in accordance to API17D for subsea application
- Type Lens Gasket in accordance to DIN2696
- Customized RTJ

## Characteristics

These gaskets are manufactured in compliance with the main international standards, but are frequently produced according to proprietary drawings for customized RTJ flanges. There are several designs of Ring Type Joint (RTJ) gaskets: R, RX, BX, SBX, SRX, IX Norsok, Lens gasket types. The grooves where these gaskets are seated must have a finely finished surface, free from ridges, tool marks, or imperfections that could affect sealing performance. Additionally, the gasket material must have a hardness level at least 20÷30 HB lower than that of the flange groove to prevent flange damage and ensure proper deformation of the gasket for an effective seal.

## Applications

Details about RTJ Gaskets and RTJ Flanges:

- 1) Both types R Oval and Octagonal are interchangeable on the modern octagonal type grooved flanges
- 2) Only the R Oval shape can be used in the old type round bottom groove
- 3) The groove's sealing surfaces how those of the RTJ as well must be smoothly finished to Ra 1,6 micro meter
- 4) The hardness of the Ring Type Joint Gasket, made in the most popular materials, is highlighted in the Table RJ-3.2-1 of ASME B16.20
- 5) The hardness of the Ring Type Joint Gasket should always be less than the hardness of the flanges



## Ring Type Joint RTJ

Ring Type Joint RTJ gaskets are robust metallic sealing components designed for high-pressure and high-temperature environments. They are widely used in both onshore and offshore petroleum and petrochemical operations, spanning upstream and downstream applications. The Ring Joints Planisteel RJ gaskets are available in all stainless steels and in all alloy. Visit our stocklist gasket page. [Carrara stocks](#) a wide range of sizes and materials ready for immediate shipment.



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