RANKINE
GASKETS

PRODUCT DATASHEET

Ring type joints

Solid metal rings for machined flange grooves. ASME B16.20, API 6A.



Octagonal and oval ring type joint gaskets. Product images are 3D renders.

Solid metal rings that seat in machined grooves. Used where pressure is highest: wellheads, christmas trees and high-pressure pipework.

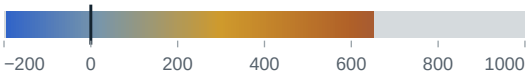
Construction and styles

- R oval and R octagonal, ASME B16.5 flanges
- RX pressure-energised rings
- BX rings for API 6BX flanges
- Soft iron, low-carbon steel, F5, 304, 316, 410, Inconel 625, Incoloy 825

Specification

Standards	**ASME B16.20, API 6A**
Pressure	**Class 150 to 2500, API 2000 to 20,000 psi**
Flange faces	**RTJ groove**
Temperature	**−196 to 650 °C**

TEMPERATURE RANGE, °C



Limit set by ring material; ring must be softer than the flange groove

Notes

- The ring must be softer than the flange groove, so the ring deforms and the groove does not.
- Rings seal by plastic deformation into the groove. Fit a new ring each time the joint is opened.
- Inspect grooves for scratches, corrosion and marks left by earlier rings before fitting.

Specify when enquiring

- Ring type and number (R, RX or BX)
- Oval or octagonal profile (R type)
- Ring material and hardness requirement
- Flange standard: ASME B16.5 or API 6A