



Ring Joint Styles

The oval cross section ring joint gasket, was the first ring joint gasket initially standardized. Later developments resulted in other styles. If the RTJ flange was designed using the older version of the standard (round bottom groove), then it should be used only with oval ring joint gaskets. Octagonal section, for flat bottom flange grooves, is easier to install and its use is recommended for new applications. However either can be used with corresponding newer flat bottom grooves.

Style RX is a pressure-activated gasket. Its shape is designed to use the fluid pressure to increase the sealability. The outside sealing surface of the gasket makes the initial contact with the flange seating the gasket. As the internal pressure of the piping or equipment is increased, the contact pressure between gasket and flange also increases. High seating pressures are created increasing the sealability. This design characteristic makes this gasket style more resistant to vibrations, pressure surges and shocks that occur during oil well drilling. Style RX is interchangeable with oval and octagonal ring gaskets, using the same flange, if the flange groove is flat bottom.

Style BX gasket has a square cross section with beveled corners and is designed for use only in flanges API 6BX. Style BX is recommended for pressures from 5000 psi up to 20, 000 psi. The average diameter of the gasket is slightly greater than that of the flange groove. This way when the gasket is seated it stays pre-compressed by the outside diameter creating a high seating stress.

Ring joint gaskets are available in a wide range of materials, including exotic metals, depending on the application.

Properties and application parameters shown throughout this datasheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice. This edition supersedes all previous issues.