



Ring Type Joint Technical Datasheet

Description

Phoenix Ring Type joints are solid metal gaskets capable of sealing extreme pressures. They are machined to concentrate bolt load over a small area generating high sealing stresses.

Application

Ring Type joints are widely used in the Oil, Gas, Petrochemical and Offshore industries in ASME, API, or bespoke flanges subject to high pressures and temperatures. They can be manufactured from a wide range of materials to suit the service conditions. The gasket material should always be softer than the mating flanges to ensure it plastically deforms without damaging the groove.



Profiles



Type R Octagonal

For use in ASME or API flanges with a flat bottomed groove.



Type R Oval

For use in ASME or API flanges with an oval or flat bottomed groove.



Type Type RX

An adaptation of the Type R Octagonal ring joint for use with ASME or API flanges with a flat bottomed groove



Type Type BX

Designed for high pressures. For use in API BX flanges.

Phoenix also supply RTJs for subsea applications. To enquire ask for SBX or SRX

Availability

Material	Hardness	Material	Hardness
Soft Iron	90 BHN	S31803	230BHN
Low Carbon Steel	130 BHN	S32750	250 BHN
F5	130 BHN	Alloy 600	160 BHN
304/304L	160 BHN	Alloy 625	200 BHN
316/316L	160 BHN	Alloy 800	200 BHN
321	160 BHN	Alloy 825	180 BHN
347	160 BHN	Monel 400	130BHN
410	170 BHN	Alloy C276	240 BHN

Traceability Available on all ring type joints

Stock We hold stock in a number of profiles and materials.

Flange Surface Finish

The maximum flange surface finish for Type R and RX ring type joints is 1.6µm RA (63RMS). The maximum flange surface finish for BX is 0.8µm RA (32RMS)

As the company's products are used in multiple applications and as the company has no control over the method of their use, the company excludes all conditions or warranties, expressed or implied by statute or otherwise. Any technical co-operation is given for customers assistance only and without liability on the part of the company.