

Bonnet Seal Ring

Product Profile

Typical bonnet seal ring is applicable to the flange faces formed by pair of small grooves. Most of the small grooves have two angle faces and one flat bottom. Most of the gaskets have an octagonal cross section, but in some gaskets the small grooves are oval-shaped.

The gasket can be fitted into the small groove, but the most are of sufficient size so that the two mating flange faces are separated. If the flanges do not coincide, the pipeline will be leaked during the feeding. Valve bonnet seal ring must be of full load and can not touch the flange face, which shall cause the front gasket deformation. In addition, if the valve bonnet seal ring is not well aligned, it will occur that one face is sealed and the other face is leaked during the feeding.

Because the levels of both internal and external should be accordance with the design requirements on both sides at the same time, prior art gaskets use face to face contact and can not provide the effective seal.





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Features

- 1、 Valve bonnet seal ring is the type of mechanical compression, that is to say it is sealed only by the tightening torque of flanged bolt.
- 2、 Valve bonnet seal ring is used in 6B flanges with standard flanged connections, it has the face seal with good seal performance, but it should have high accuracy.
- 3、 Valve bonnet seal ring can be reused in the field in the case of the appearance with no damage.
- 4、 The hardness of valve bonnet seal ring must be 15~20HB lower than the mating flange face hardness.
- 5、 The seal faces of valve bonnet seal ring, including the bevel faces, shouldn't have the scratches, knock marks, cracks and defects. Its surface roughness shouldn't be larger than Ra1.6.

Performance Parameters

| | |
|---------------------------------|------------------|
| gasket factor | m=5.50-6.50 |
| gasket using pressure | ≤42MPa |
| gasket using temperature | -196℃-1000℃ |
| minimum pre-tightening pressure | y=126.6-182.8MPa |

Materials

Soft Iron、 Low C/S、 ss410、 ss304、 ss316、 ss347、 F5、 F11、 Copper、 Aluminum、 Inconel 600、 Inconel 625、 Incoloy 800、 Incoloy 825、 Monel 400、 Titanium、 Nickel 200、 Hastelloy C276、 Zirconium702

Application

The gaskets are primarily used in the oil, gas, petrochemical and offshore industries. They are also commonly used on valves, pipe-work assemblies and vessel joints and are used to seal flanged connections subject to high pressures and temperatures.



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Technical Standards

It can provide any standard and non-standard sizes, including the standards of API 6A, API 17D, ASME B16.20, DIN 2693-67, JPI-7S-23-72 and other standards.