



Product Information

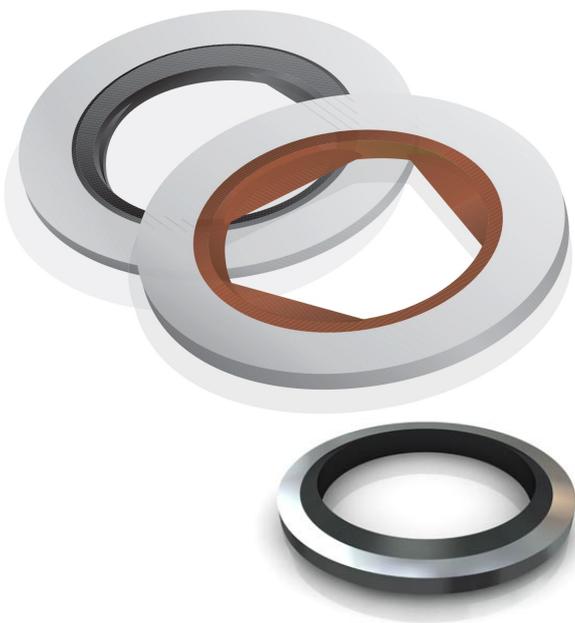
BONDED SEAL

The bonded seal was originally designed to solve the leakage of bolt or thread when the application needs lubricant. Generally, metal washer is a common component to be used in fitting bolt head and nut, however, it lacks of sealing function. Therefore, the idea of comprising an elastomer inside the metal washer was come out to prevent leakage and meet the lubricant application.



Product Description

WSI BONDED SEAL was originally designed to withstand high pressures, and it is being substituted for copper type washers in higher pressure system. The WSI Bonded Seal comprises a metal washer and an elastomeric ring bonded inside the diameter. The metal washer prevents over-compression and limits deformation of the elastomeric ring; the elastomer prevents lubricant leakage internally and avoids water or the pollutant invasion from outside environment.



Advantages of WSI Bonded Seal

- Provides efficient cost to solve the sealing of bolt/ thread
- Can be used in various applications, i.e.: threaded bolt, studs and clearance holes
- Available in different temperature ranges
- Reliable to suit for high and low-pressure sealing
- Metal washer prevents the elastomer from over compression and deformation
- Available to suit for all thread sizes
- Easy to assemble
- Available to self-centralizing
- Ability to pre-assemble

Technical Information

The bonded seal is an elastomeric sealing ring that vulcanized on the edge of a metal washer. The metal washer could control the optimum deformation of the elastomeric sealing ring and eliminate the possibility of over-compression and extrusion.

WSI has standard and self-centering types of bonded seal, and other customized designs are also available. The standard types are commonly used to seal blot or thread clearance in most engineering applications. A wide range of different sizes is available. The self-centering type has the characteristics of easy and accurate placement.



Applications

Bonded seals are used on bolt / thread sealing, e.g. pipe connections in hydraulic system, parts connection by bolt in automotive system. Bonded seals are widely used in many applications in various industries where needs the static bolt / thread sealing.



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