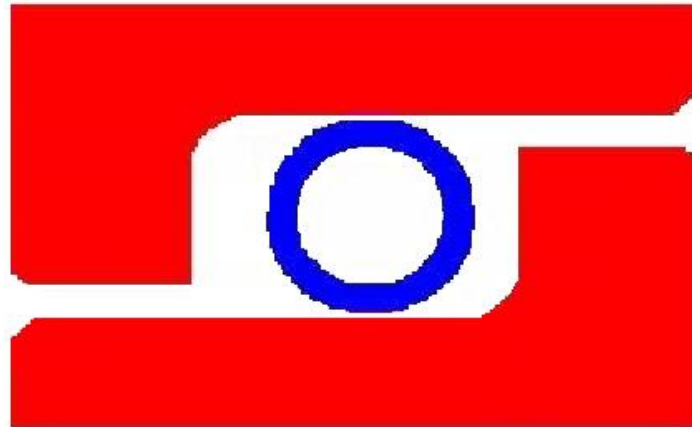




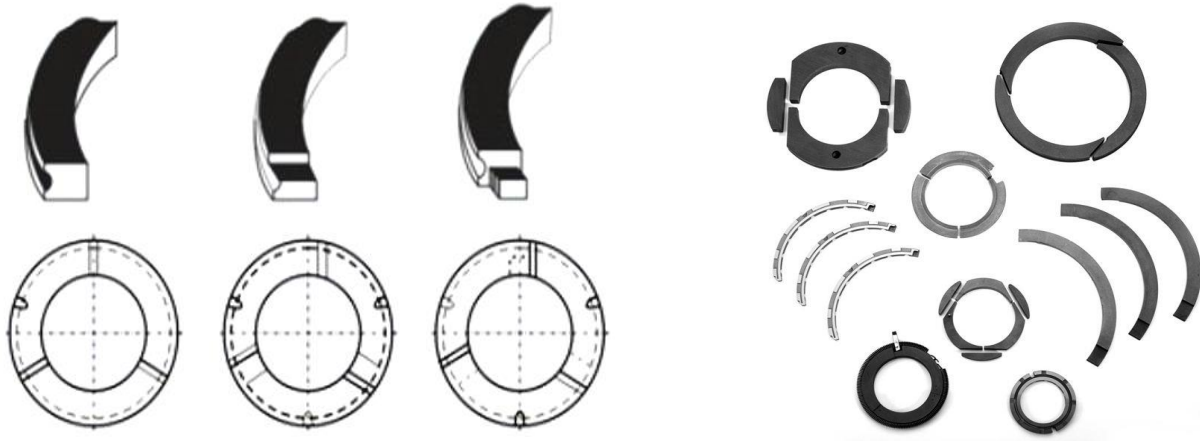
TISTAM

30 YEARS OF SEALING SOLUTIONS.

Multi-Segments Seal Ring.

Multi-part carbon or P.T.F.E sealing rings from TISTAM® with professional accuracy up to a diameter of about 380 mm. Depending on the size of the rings, they are divided into 3, 4, 6, 8, 12 or more segments. In order to secure an optimal assembly and thus a maximum sealing effect the individual ring segments are numbered.

With multi-segment carbon/graphite sealing rings, tight tolerances for assembly are not necessary, The adjustable orientation of multi-segment rings in chambers is advantageous for compensation of radial shaft displacement.



GAP SEAL.

Typical fields of application for gap seals are steam turbines, piston rod glands of oil-free piston compressors, screw compressors in general. Gap seals are used with both rotating and reciprocating motions. A gap seal is always preferable to a contact seal, if excessive wear is to be expected with a contact seal because of the operating conditions. This mainly applies for high sliding speeds and high loads where, in the case of a contact seal, excessive heating can occur at the sealing faces, resulting in excessive wear. Both one piece carbon rings, encased in metal holders, and segmented sealing rings are used in gap seals.

Multi segment rings.

The adjustable orientation of multi segment rings in chambers is advantageous for compensation of radial shaft displacement.

For rotation prevention the rings are usually pinned to one another or to the chamber ring.

Metal Clad rings.

The metal clad ring are under shrinkage stress and expand in correspondence to lower coefficient of thermal expansion of carbon/graphite material compared to steel which necessitates its shrinking into a metal holder.



Contact Seal.

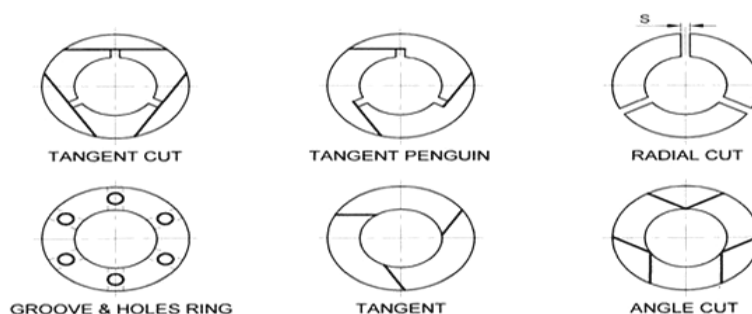
It is useful to arrange the carbon sealing rings in pairs in chambers, with staggered joint gaps, in order to achieve a good additional axial seal. Rings are pinned to one another or to the chamber ring, to prevent rotation. Contact seals with such rings, however, can only be used with reciprocating motions, e.g. for the sealing of piston rods in dry running compressors.



Labyrinth rings.

Labyrinth rings are one piece or multi segment carbon / graphite rings with labyrinth grooves or Threads in the bore of the ring although they are rarely used in classical, labyrinth seals.

The sealing effect of the labyrinth ring in gap seals is improved by the afore-mentioned grooves and threads.



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