



OTECHOS  
ConeSpring-Seal

CSS



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**OTECHOS**  
Looking to the future



**A new way of sealing high pressure piping flanges with a stable connection**

The ConeSpring-Seal (CSS) is a new, very simple, reliable and cost-effective seal which can be used on all types of flanges with grooves for metal seals like RTJ and API flanges. The CS-Seal consists of a single metal part only, shaped similar like a cone.



**Features for the CSS:**

**Sealing:**

Metal to metal sealing with the same material of the seal/gasket as flanges. This allows for large fluctuation in temperature still with the same tightness of the seal and flange connection.

In addition, the engineer's choice of sealing has never been easier. The higher the pressure in the piping system, the better sealing provided due to the new patented shape of the seal. The CSS has been tested up to 1100 bar.

**Stability of the connection:**

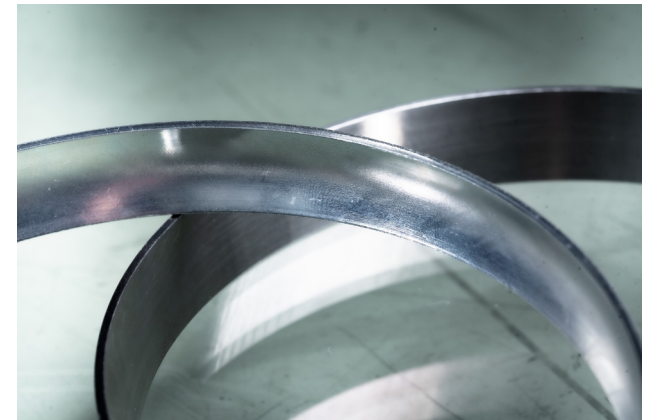
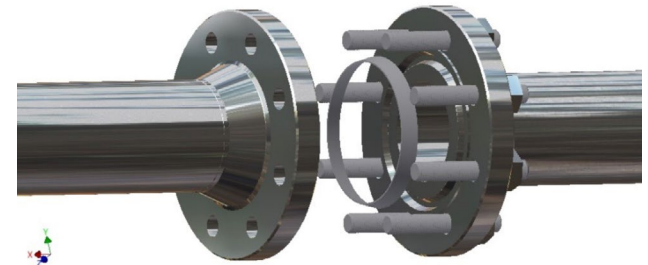
The design of this sealing technology ensure that flange faces completely meet during tightening of bolts for the connection. This makes the piping system stiff and stable, and one have full control of the seating force and bolt torque.

**No need for repair/machining of old/used flanges:**

Eliminates the need of machining and/or replacement (hot work) of flanges due to damaged seal area in the grooves. The CSS seal engage the bottom of the groove in the flange, not in the traditional seal area/side of the groove as for the RTJ and other solutions.

**Easy replacement and installation:**

The CSS can replace all conventional seals on all types of groove sealing flanges. e.g. RTJ and other commonly used in high pressure applications. Due to the designed shape there is no risk of incorrect insertion of the CSS.



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