

**PRODUCTS:  
MECHANICAL SEALS**

**R.S.T Mechaflex**

**RST  
MECHAFLEX**

*A State-of-the-Art Mechanical Seals*



**R.S.T MECHAFLEX** is a revolutionary mechanical seal design, built with simplicity in design and incorporates the innovative sealing unit, **FLEXICAL<sup>®</sup>**.

The objective of this design is to improve seal robustness compared to the conventional mechanical seal design and designed according to **API 682 4th Edition**.

**SINGLE SEAL**

- Seal Arrangement:
  - Single wet seal with fixed throttle bushing or floating throttle bushing.
- Most common type of seal to operate and maintain.

**TANDEM SEAL**

- Seal Arrangement:
  - Dual contacting wet seal and contacting wet inner seal with containment seal.
- Used when zero leakage to atmosphere can be tolerated.

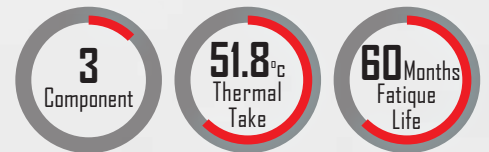
**DOUBLE SEAL**

- Seal Arrangement:
  - Face-to-Back, Back-to-Back, and Face-to-Face.
- Used when zero to very low leakage to atmosphere can be tolerated.

**FLEXICAL<sup>®</sup>**



**FLEXICAL<sup>®</sup>**'s design simplicity and functionality ensure it can be used in a harsh operating condition, bad equipment state, and even abrasive product fluid condition.



**DESIGN FEATURES**

**1 Excellent Heat Dissipation**

- Seal faces are designed for low heat generation.
- Heat dissipation through fin-cooler design and conduction between the seal faces and **FLEXICAL<sup>®</sup>** body.

**2 High Flexibility**

- Full six (6) degrees of freedom.
- Ability to absorb high vibration.

**3 Advanced Material Technology**

- High strength rigidity.
- Non-existence of residual strength.

**4 High Reliability Factor**

- Simplicity in design.
- Less component compared to legacy compression unit.

**5 Resistant in a Slurry Application**

- **FLEXICAL<sup>®</sup>** with its single coil spring design is resistance in a slurry application and less prone to spring clogged compared to multiple spring design.

**PARAMETERS**

**Temperature**

- -40°C to 310°C / -40°F to 590°F

**Pressure**

- Vacuum to 170 bar / 2540 psig

**Sliding Speed**

- 55 m/s / 11,000 fpm

**Seal Size**

- 1.375" to 8.250"