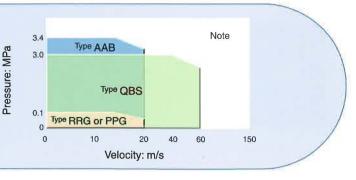
Selection of seal for pump



Mechanical Seals

Type AAB

T. OWIT

Features & Benefits

Rotating multi-spring seal

The mechanical seal of this type is a typical balance seal of Pillar seals, used for any industries since olden times. It uses the standardized rotating seal to be compatible to the dimension, construction and application of equipment used, and used multi-spring to demonstrate the stabilized performance in a wide range of application, This model is categorized in API 682. Seal type A

Performance

Pressure: 4.2MPa (610psi), Velocity: 20m/s, Nom.size: ϕ 20~250 Application: Process pump, Mixer, Blower

SiC (Tungsten Carboide) vs Carbon & Flouro Elastomer, 316 SS



SiC vs Carbon & Flouro Elastomer, 316 SS

Rotating welded metal bellows Seal



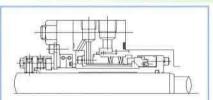
Features & Benefits The bellows pack is a rotary type metal bellows seal that can be also attached to the pump compatible to ISO or DIN, and can provide the effect for countermeasure against operation

failure of shaft packing type. Since the inconel is used for bellows material, it can be applicable to a wide of fluid. This model is categorized in API 682. Seal type B

Performance

Pressure: 2.0MPa (290psi), Velocity: 25m/s, Nom.size: ϕ 20~100

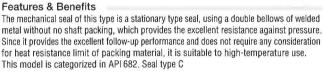
Application: Utility pump, Middle pressure pump



TWW ME

Welded metal bellows Seal





Performance

Pressure: 3.0MPa (435psi), Velocity: 60m/s, Nom.size: \$\phi23\times180\$ Application: High temperature liquid

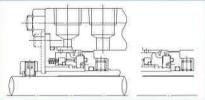
Type RRG.PPG

dry contact seal / dry gas seal









Features & Benefits

These mechanical seal is used in tandem seal as containment seal. RRG:This is a dry contact seal. The seal ring is grooved for reduction of load and is impregnated with special lubricant, it can assure the stable sealing performance for a long time, PPG:This is a dry gas seal. The seal surface of rotating ring is uniquely grooved, to use the hydro dynamic pressure effectively by the multi-independent grooves. These arrangement are 2CW-CS in API 682.

Pressure: 0.1MPa (14.5psi), Velocity: 20m/s, Nom.size: \$\phi20~130\$ Application: Process pump

Type Phoenix Seal®

Non-Contact dry gas seal



Features & Benefits

Bi-directional type non-contact dry gas seal

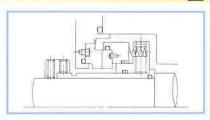
Multi-independent hydrodynamic pressure distribution generated by multiindependent grooves gives more stable seal performance. (US 5664748, 5529318 EU Pending)

Performance

Pressure: 10MPa (1450psi), Velocity: 150m/s, Nom.size: φ50~200 Application: Turbine, Blower, Compressor



Carbon vs Sic & Fluoro Elastomer, 316 SS



Note: When selecting the mechanical seal for range exceeding the conditions shown above,