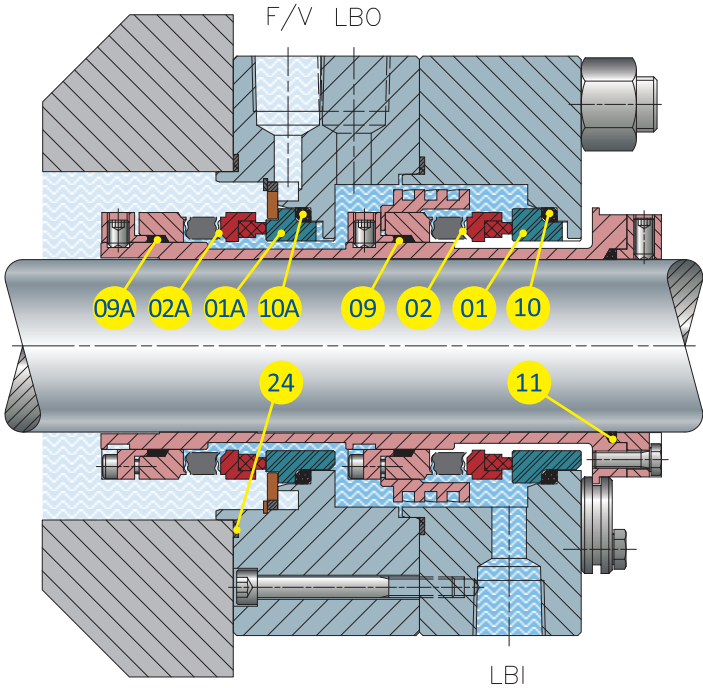


COMPONENTS KEY
(standard materials)

- 01 Stationary ring: reaction bonded silicon carbide (U41), sintered silicon carbide (U31)
- 01A Stationary ring: reaction bonded silicon carbide (U41), sintered silicon carbide (U31), integral tungsten carbide bound nickel (K21)
- 02 Rotary bellows AISI316+inconel (xL) and inserted rotary ring: graphite antimony impregnated (Z12)
- 02 Rotary bellows AISI 316+inconel (xL) and inserted rotary ring: graphite antimony impregnated (Z12), inserted silicon carbide (U32), inserted tungsten carbide bound nickel (K22)
- 09 Rotary ring gasket: graphoil (G5)
- 09A Rotary ring gasket: graphoil (G5)
- 10 Stationary ring gasket: graphoil (G5)
- 10A Stationary ring gasket: graphoil (G5)
- 11 Sleeve gasket: graphoil (G5)
- 24 Flange gasket: graphoil (G5)



ADVANTAGES

Dual cartridge seal in face-to-back version with metal bellows designed in compliance with standard API 682 4th edition CAT 2 and 3. All the construction elements and materials of the seal are capable of working at very high temperatures. The dual reverse pressure allows it to operate with auxiliary pressurised liquid (TRHD) guaranteeing zero emissions into the atmosphere or non-pressurised (TRHT). Solution also available with special materials resistant to chemically aggressive fluids.

FEATURES

- Standard solution resulting from tested designs and made in compliance with standard API 682 4th edition
- The balanced dual cartridge solution is ideal for arrangement 2 and 3 or with auxiliary fluid at atmospheric pressure (buffer) TRHT or pressurised (barrier) TRHD
- Metal rotary bellows
- Dual direction of rotation
- Uniform distribution system of multipoint injection flushing on the product side seal
- The bellows solution with secondary gaskets in graphoil is recommended with liquids at temperature > 176 °C where emissions into the atmosphere must be controlled or where “Zero emission” is required
- Efficient circulation device of the auxiliary liquid
- Connections for flushing or vent and IN-OUT for auxiliary liquid
- Possibility of sizing the shaft flange and sleeve according to customer request
- Recommended for API horizontal and vertical pumps

RECOMMENDED PLANS

- TRHT:
Product side: 02, 03. Atmosphere side: 52, 55.
- TRHD:
Product side: 02, 03. Atmosphere side: 53A/B/C, 54.

Operating limits

DIAMETER [mm]	FROM 20 TO 110
SPEED [m/s]	≤ 23
TEMPERATURE [°C]	FROM -80 TO 400
PRESSURE PROCESS [bar]	FROM VACUUM TO 40*

Operating limits differing from those reported can be defined and approved by our Sales Technical Department. The indicated speed and pressure values are not absolute limits but are evaluated by calculating their P V product and also by taking into account the temperature and chemical/physical features of the fluid. For this reason, maximum pressure, speed, temperature and shaft diameter values cannot be combined together.

*Solution with double ply.