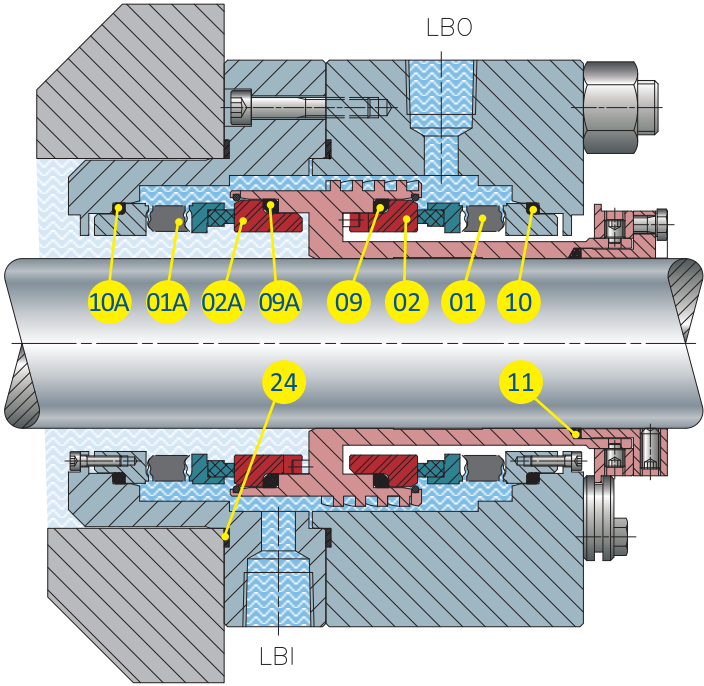


COMPONENTS KEY
(standard materials)

- 01** Stationary bellows
AISI316+inconel (xL) and
inserted rotary ring: graphite
loaded antimony (Z12)
- 01A** Stationary bellows AISI
316+inconel (xL) and inserted
rotary ring: graphite loaded
antimony (Z12), inserted
silicon carbide (U32), inserted
tungsten carbide bound nickel
(K22)
- 02** Rotary ring: reaction
bonded silicon carbide (U41),
sintered silicon carbide (U31)
- 02A** Rotary ring: reaction
bonded silicon carbide (U41),
sintered silicon carbide (U31),
integral tungsten carbide
bound nickel (K21)
- 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-face version with stationary 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 guaranteeing zero emissions into the atmosphere or non-pressurised for plan 52 or 55. Solution also available with special materials resistant to chemically aggressive fluids.

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.

FEATURES

- Standard solution resulting from tested designs and made in compliance with standard API 682 4th edition
- The balanced face-to-face dual cartridge solution is ideal for arrangement 2 and 3 or with auxiliary fluid at atmospheric pressure (buffer) or pressurised (barrier)
- Stationary metal bellows
- Dual direction of rotation
- 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
- Connection IN-OUT for auxiliary liquid
- Efficient circulation device of the auxiliary liquid
- Possibility of sizing the shaft’s flange and sleeve according to customer request
- Recommended for API horizontal and vertical pumps

RECOMMENDED PLANS

Product side: 02, 03.

Atmosphere side: 52, 53A/B/C, 54, 55.