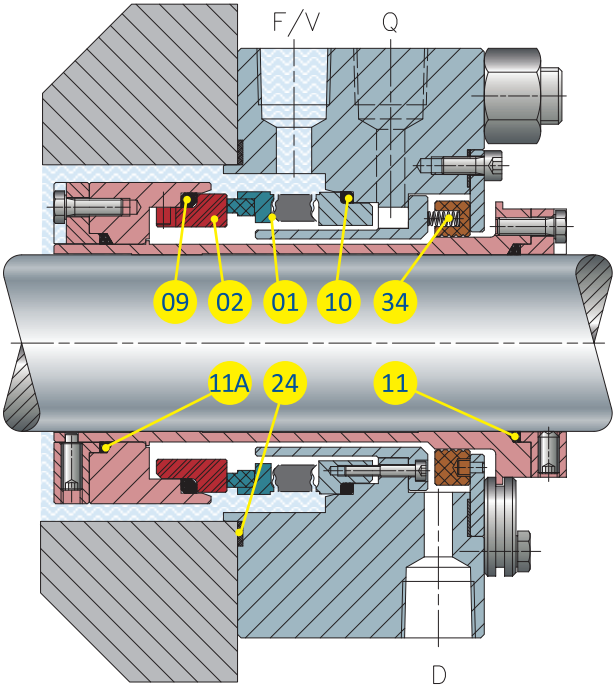


COMPONENTS KEY
(standard materials)

- 01** Stationary bellows AISI 316+inconel (xL) and *inserted rotary ring*: graphite antimony impregnated (Z12), inserted silicon carbide (U32), inserted tungsten carbide bound nickel (K22)
- 02** Rotary ring: reaction bonded silicon carbide (U41), sintered silicon carbide (U31), integral tungsten carbide bound nickel (K21)
- 09** Rotary ring gasket: graphoil (G5)
- 10** Stationary ring gasket: graphoil (G5)
- 11A** Sleeve gasket: graphoil (G5)
- 11** Sleeve gasket: graphoil (G5)
- 24** Flange gasket: graphoil (G5)
- 34** Floating: bushing graphite (Z31)



ADVANTAGES

Single cartridge seal 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 to work at very high temperatures. The labyrinth integrated in the flange sends the quench fluid to skim the seal surfaces and the metal bellows provide cooling and washing to avoid crystalline formations. 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
- Balanced single cartridge seal with stationary metal bellows and flange with floating bushing
- Dual direction of rotation
- The bellows solution with secondary gaskets in graphoil is recommended with liquids at temperature > 176 °C
- Connections for the flushing and quench with vapour and labyrinth device to force vapour circulation to touch and completely cool the seal and sliding surfaces
- Possibility of sizing the shaft flange and sleeve according to customer request
- Recommended for API horizontal and vertical pumps

RECOMMENDED PLANS

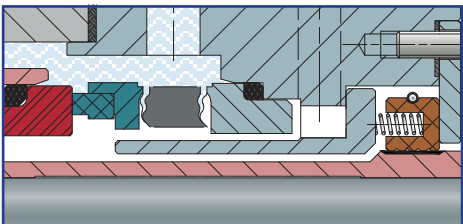
Product side: 02, 03, 23.
Atmosphere side: 51, 61, 62, 65A/B, 66A/B.

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.



TSHQ version with segmental bushing. (1CW-FL)