

COMPONENTS KEY
(standard materials)

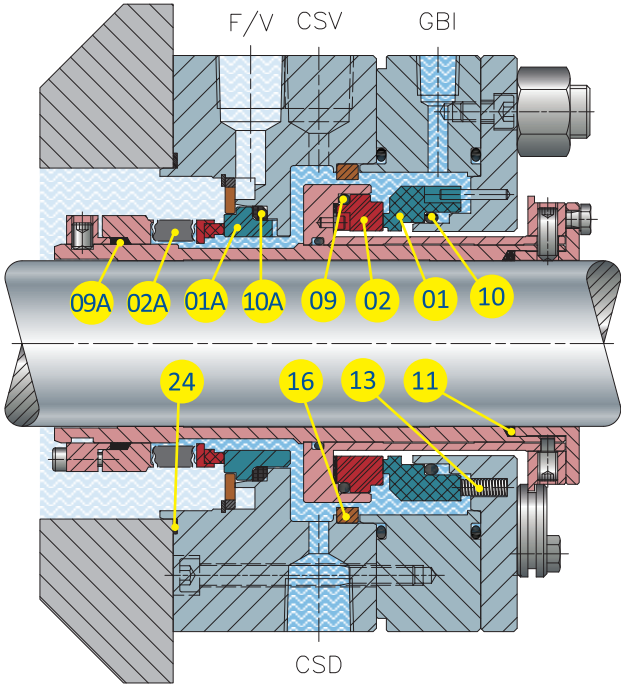
- 01 Stationary ring: graphite impregnated resin for dry running (ZD71)
- 01A Stationary ring: reaction bonded silicon carbide (U41), sintered silicon carbide (U31), integral tungsten carbide bound nickel (K21)
- 02 Rotary ring: reaction bonded silicon carbide (U41), sintered silicon carbide (U31)
- 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: fluoroelastomer (V), EPDM (D), FFKM (G720)
- 09A Rotary ring gasket: graphoil (G5)
- 10 Stationary ring gasket: fluoroelastomer (V), EPDM (D), FFKM (G720)
- 10A Ring gasket: graphoil stationary (G5)
- 11 Sleeve gasket: graphoil (G5)
- 13 Springs: Hastelloy (I)
- 16 Bushing: graphite (Z3)
- 24 Flange gasket: graphoil (G5)

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.



ADVANTAGES

Dual cartridge seal designed in compliance with standard API 682 4th edition CAT 2 and 3 with auxiliary seal suitable for dry running. All the construction elements and materials of the product side seal are capable of working at very high temperatures. The secondary mechanical containment seal is a stationary type for high surface speeds. Fluiten's Fluigrad technology reduces the heat generated by the seal faces to a minimum.

FEATURES

- Standard solution resulting from tested designs and made in compliance with standard API 682 4th edition
- Cartridge solution, single balanced, with rotary metal bellows and secondary containment mechanical seal
- 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
- Dual direction of rotation
- Connections for flushing or vent and control of physiological leakages of the seal on the process side
- Possibility of sizing the shaft flange and sleeve according to customer request
- Solution developed for installation in existing machines
- Recommended for API horizontal and vertical pumps

RECOMMENDED PLANS

Product side: 01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41.
Atmosphere side: 65A/B, 71, 72, 75, 76.