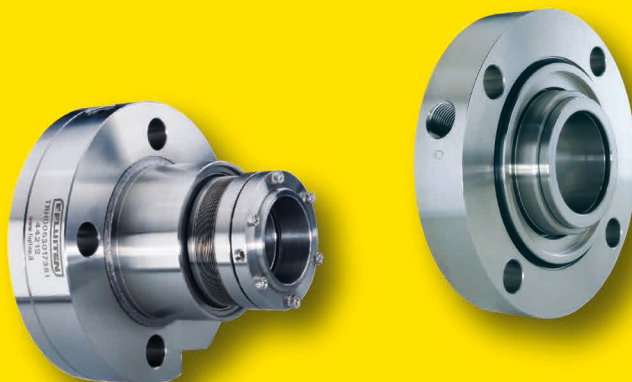


MECHANICAL SEALS FOR PLANT'S SECURITY

Fluiten uses the best technology and materials to develop new product lines, in accordance with regulations for the protection and health of workers in plants with high risk of explosion, toxicity and flammability.

The mechanical seals' models on the following pages meet the most stringent regulations of the oil & gas, chemical and petrochemical:

- API 682 *latest edition*
- Atex 94/9/EC (*Regulation of equipment intended for use in areas at risk of explosion*)
- PED (*Directive 97/23/EC for pressure equipment*)
- IPPC (*Integrated Pollution Prevention and 96/61/EC*).



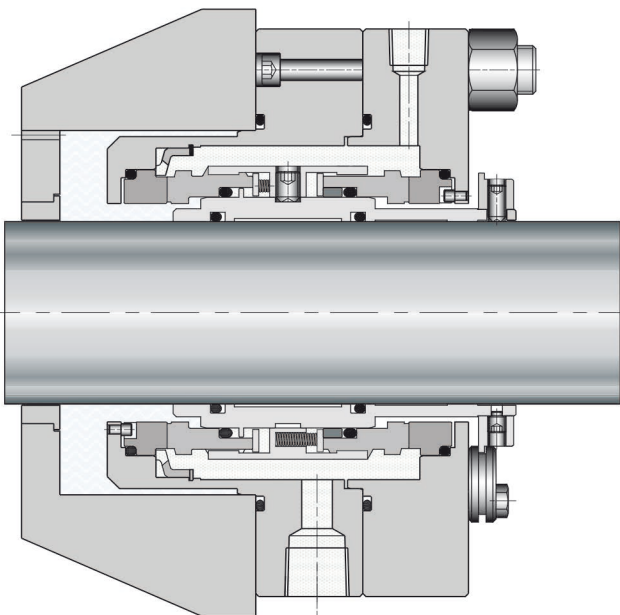
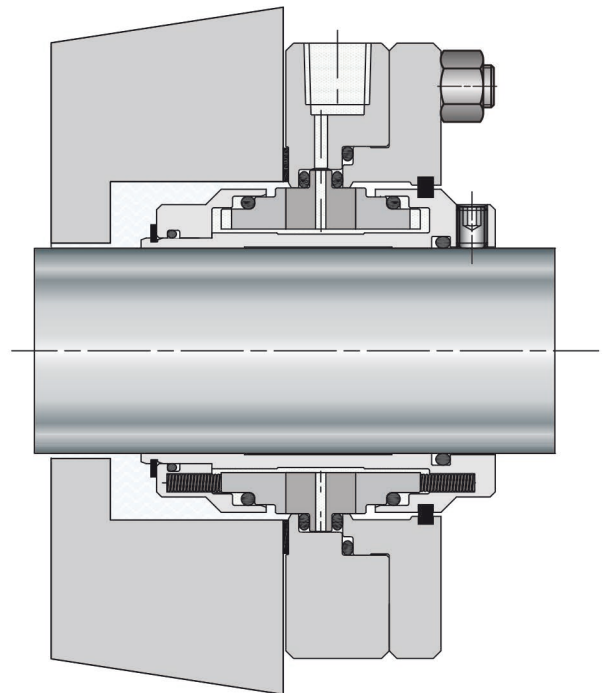
TENUTE DOPPIE LUBRIFICATE A GAS

In double mechanical seals' model, it is possible to identify the mechanical gas seals with Fluilift technology (during the rotation, the sealing surfaces are detached of a few microns or fractions of a micron and thus the friction is reduced to almost zero with considerable savings energy). The technology perfected by Fluiten, provides a flushing according to the scheme API PLAN 74 with nitrogen or other inert gas under pressure to guarantee the total containment of leaks and without polluting the environment and the process fluid. The gas seals compared to the fluid flushing, require a pressurization system simpler and of lower costs.

Limit conditions LLF*			
SPEED (m/s)	PRESSURE (bar)	TEMPERATURE (°C)	DIAMETER (mm)
23	22	176	110
0	0	-40	20

* Different limit conditions can be defined from our Technical Department. Indicated speed and pressure values are not absolute limits, they must be calculated as the result of P•V and considering the temperature and the physical and chemical characteristics of the process fluid.

Double mechanical seal with sealing rings developed with Fluilift technology to allow pressurization with gas rather than liquid. Face to face configuration with reduced axial dimensions, with multiple springs outside the process fluid which remains on the outside of the sealing rings in order to tolerate the presence of abrasive particles. Cartridge configuration completed with flange and shaft sleeve; dimensioned for ANSI pumps or in accordance with standard API 682.



Limit conditions LLD*			
SPEED (m/s)	PRESSURE (bar)	TEMPERATURE (°C)	DIAMETER (mm)
23	42	176	110
0	0	-40	20

* Different limit conditions can be defined from our Technical Department. Indicated speed and pressure values are not absolute limits, they must be calculated as the result of P•V and considering the temperature and the physical and chemical characteristics of the process fluid.

Double mechanical seal with sealing rings developed with Fluilift technology to allow pressurization with gas rather than liquid. Back to back configuration, with multiple springs outside the process fluid. Cartridge configuration completed with flange and shaft sleeve in accordance with standard API 682.

Pictures and size could bring different elements from the standard configuration to different markets. The product may change for technical or commercial necessities.



Fluiten has a metrology laboratory equipped with the latest generation of laser instruments to measure all the components in a very short time. This method minimizes the possibility of unexpected non-compliance during assembly, testing and commissioning phases of mechanical seals. Fluiten also has an after-sales department that meets the growing need for rapid maintenance, repair and modification of the seals. Fluiten offers a global service that provides 360 ° continuous service and technical support to customers.

FLUITEN'S STAFF, THE COMMERCIAL OFFICE AND TECHNICIANS ARE AVAILABLE TO ASSIST YOU WHEREVER YOU ARE

