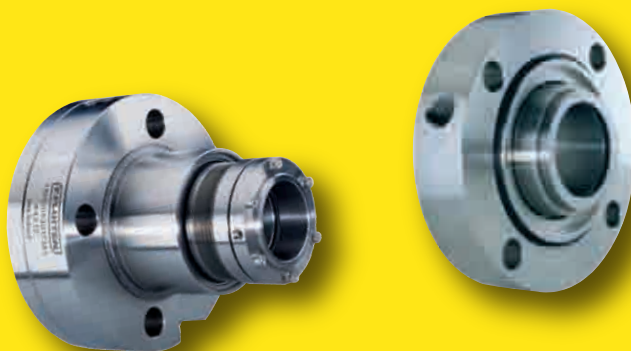


MECHANICAL SEALS FOR PLANT'S SECURITY

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*).



DOUBLE SEAL FOR HEAVY DUTY APPLICATION

In all those applications that require high performances, in particular, high temperatures, metal bellows mechanical seals replace more diffuse elastomeric pusher seals.

For hazardous environments, in the presence of explosive atmospheres, Fluiten provides mechanical seals complying with the directions of ATEX. In the field of the agitators was developed for an estate classified ATEX ZONE 0.

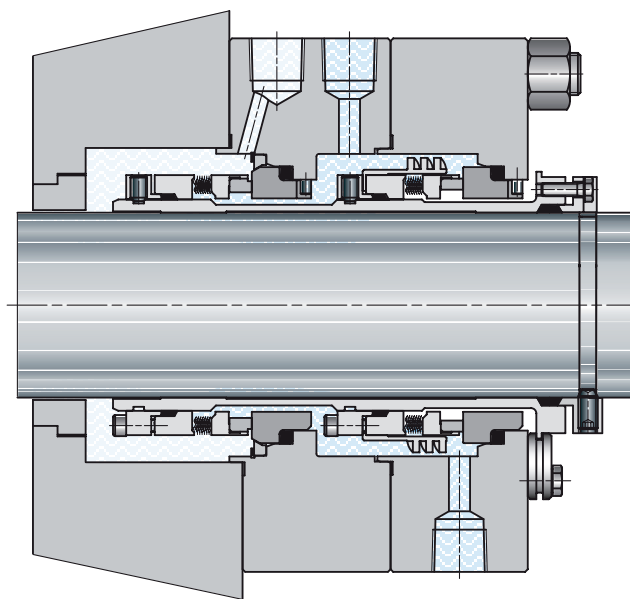
Limit conditions TRHT/D*

SPEED (m/s)	PRESSURE (bar)	TEMPERATURE (°C)	DIAMETER (mm)
25	42	176** (400)	100
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.

** limite in accordo alla normativa API 682

Double metal bellows seal developed with suitable materials to withstand high temperatures. Dual hydraulic balancing to allow flushing with pressurized barrier fluid or at atmospheric pressure and tolerate possible inversions of the pressures. Complete with flange and shaft sleeve in cartridge configuration with integrated auxiliary liquid circulation device and in accordance with the requirements of API 682.

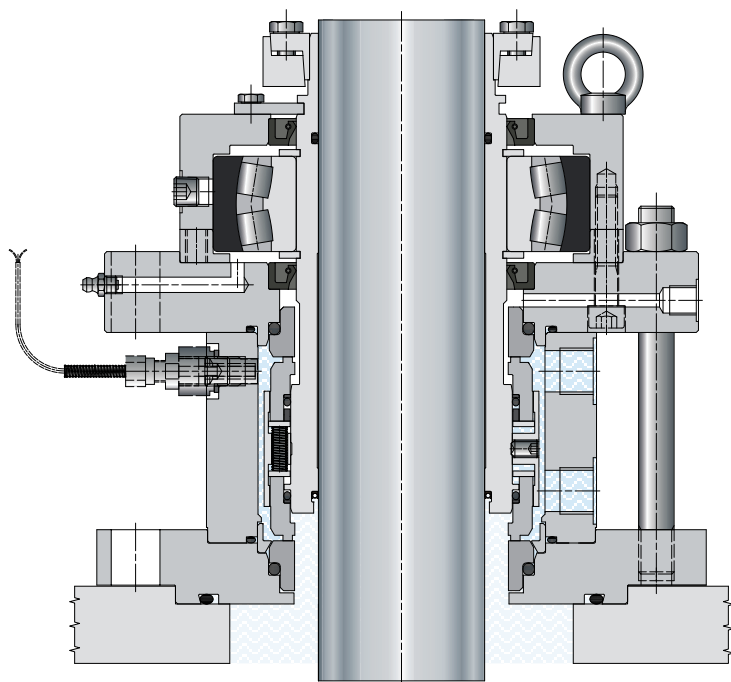


Limit conditions GT1933*

SPEED (m/s)	PRESSURE (bar)	TEMPERATURE (°C)	DIAMETER (mm)
10	75	250	200
0	0	-50	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 sized for the application of vertical or horizontal mixers and reactors classified in ZONE 0. Double-balanced to withstand possible inversions of the pressure, the seal is provided with flange and shaft sleeve and ball bearing or roller in cartridge configuration.





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

