European Sealing Association e.V.

RINA

FLUITEN

Tenute Meccaniche ATEX Zona 0

Mechanical Seals ATEX Zone 0

Characteristics

GT 1934 A

A preassembled, back-to-back double cartridge seal suitable for operation with a pressurised barrier fluid. A double balanced seal suitable for high working pressures and the ability to operate under reverse pressure if there is a loss of barrier fluid pressure.
Designed using API 682 construction guidelines.

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OPTIONAL FLANGES

Flange with cooling chamber (E) | Sanitary flange (B) | Sanitary flange with cooling chamber (E)

Operating limits

DIAMETER (mm)	FROM 50 TO 250
SPEED (m/s)	≤ 20
TEMPERATURE (°C)	FROM -50 TO 250
ΔP= 1 ÷ 2 bar see NOTE*	
PROCESS PRESSURE (bar)	VACUUM TO 75

For operating limits other than those specified, please consult our Technical department. The pressure and speed values indicated are not absolute limits, but should be evaluated by calculating the pressure-velocity value (PV) and considering the temperature, chemical and physical characteristics of the fluid to be sealed.

GT 1923 A

A preassembled, back-to-back double cartridge seal with an integrated, self aligning roller bearing. Suitable for operation with a pressurised fluid. A double balanced seal suitable for high working pressure and the ability to operate under reverse pressure if there is a loss of barrier fluid pressure.
Designed using API 682 construction guidelines.

Characteristics

a) Double balanced design able to tolerate unexpected reverse pressure.

b) High performance solid seal rings developed with FEA Analysis to avoid deformation.

c) Optional: sanitary gland to avoid product contamination and cooling jacket for high temperature applications.

d) Retained stationary ring to prevent blow-out during reverse pressure.

e) Robust drive lugs that can tolerate run-out and vibration.

f) Thermocouple for ATEX applications.

g) Bearing protection ring to contain lubrication.

h) Positioning device for easy precise

Sales Department during the offer negotiation phase.

Operating limits

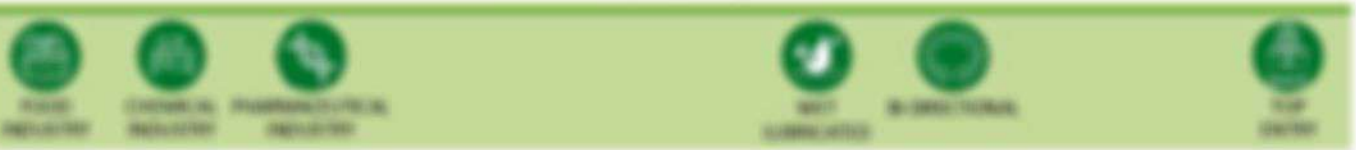
DIAMETER (mm)	FROM 50 TO 250
SPEED (m/s)	≤ 20
TEMPERATURE (°C)	FROM -50 TO 250
ΔP= minimum 1 ÷ 2 bar (see NOTE*)	
PROCESS PRESSURE (bar)	VACUUM TO 75

For operating limits other than those specified, please consult our Technical department. The pressure and speed values indicated are not absolute limits, but should be evaluated by calculating the pressure/velocity value (PV) and considering the temperature, chemical and physical characteristics of the fluid to be sealed.

OPTIONAL FLANGES (see Mears Catalogue pg. 41)

Flange with cooling chamber (E) | Sanitary flange (S) | Sanitary flange with cooling chamber (ES)

*NOTE: barrier fluid pressure must always be higher than the process pressure with ΔP as per operating limits.



Images and dimensions may differ slightly from the standard configuration or refer to different models. The product may be subjected to technical or commercial modifications without notification.

Characteristics

GTAW - GTAF - GTAD

Double cartridge seal with clean profile suitable for hygenic applications, slurries, high viscosity liquids and polymeric solutions. The cartridge includes an integrated roller bearing to minimize seal run-out for improved reliability. The seal can be supplied with custom designed flange and shaft sleeve and can be configured as wet running, dry contacting or lift off.

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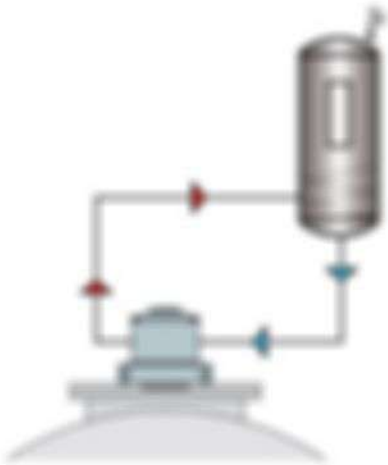

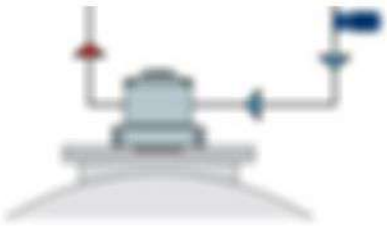

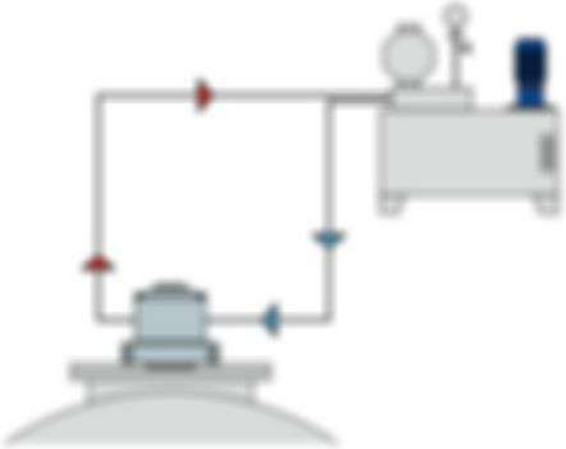

In PLAN 53A the barrier liquid is contained in an external tank pressurized with higher pressure than the stuffing box. The circulation of the fluid can take place as described on pg. 6.
The available nitrogen pressure in the plant must be checked. If it is not sufficient (0,14 MPa - 1,4 bar higher than the P of the stuffing box) it is required the use of an amplifier or a system with nitrogen accumulator (PLAN 53B).

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In PLAN 54 there is a pressurized external barrier fluid system supplying clean liquid to the barrier fluid seal chamber.
PLAN 54 is used with Arrangement 3 liquid seals and the barrier liquid is maintained at a pressure greater than seal chamber pressure. Barrier liquid is circulated by an external pump or pressure system.
PLAN 54 is often used in services where the pumped fluid is hot, contaminated with solids, or the internal flow inducer is unable to supply a sufficient flow rate.

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