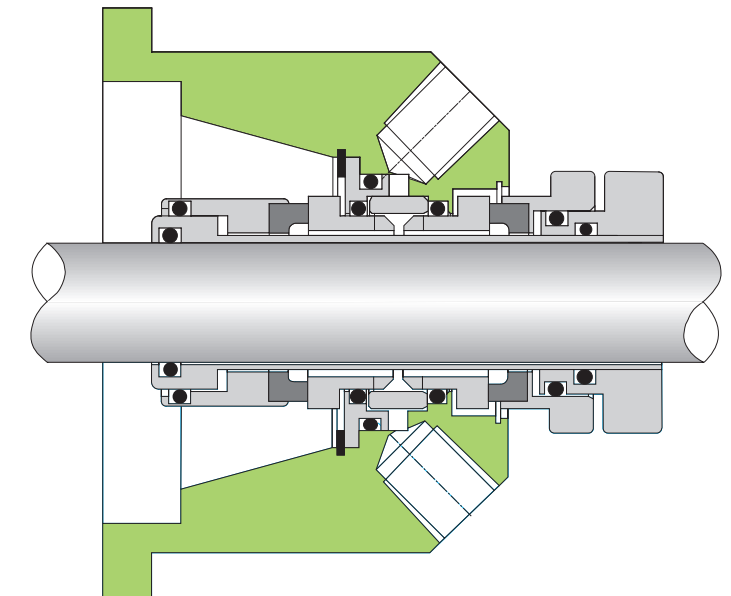
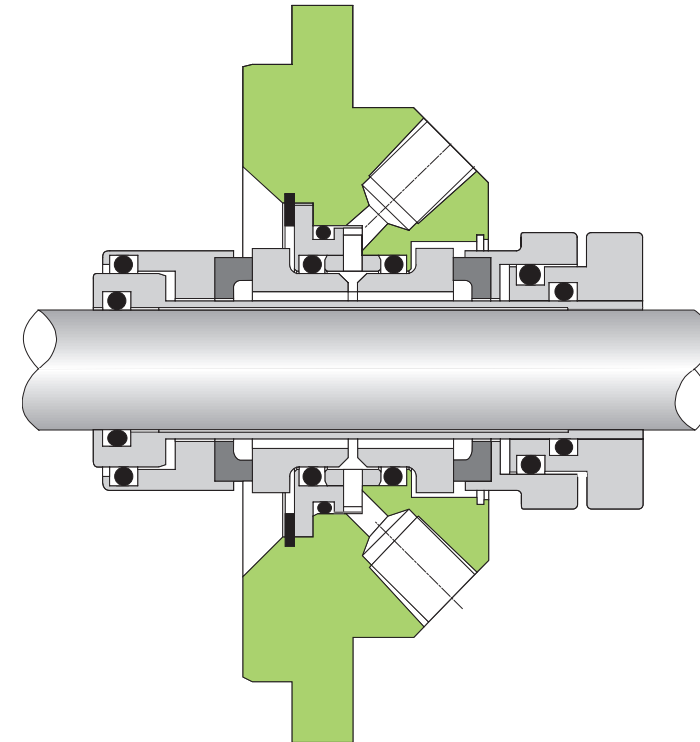
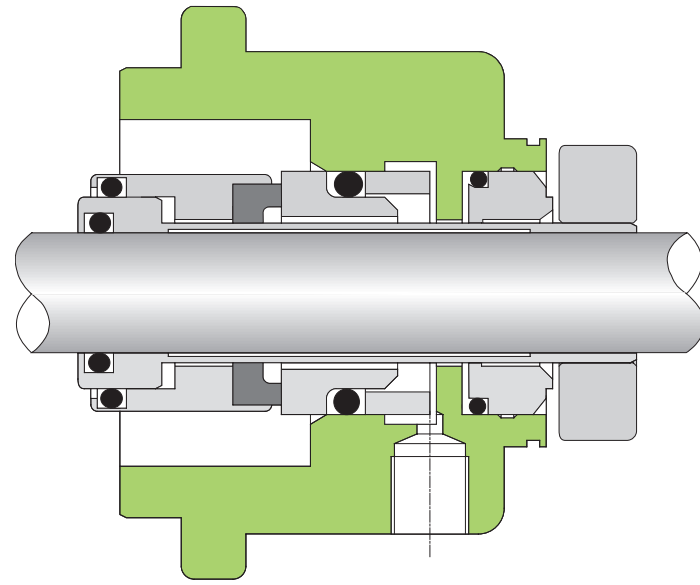
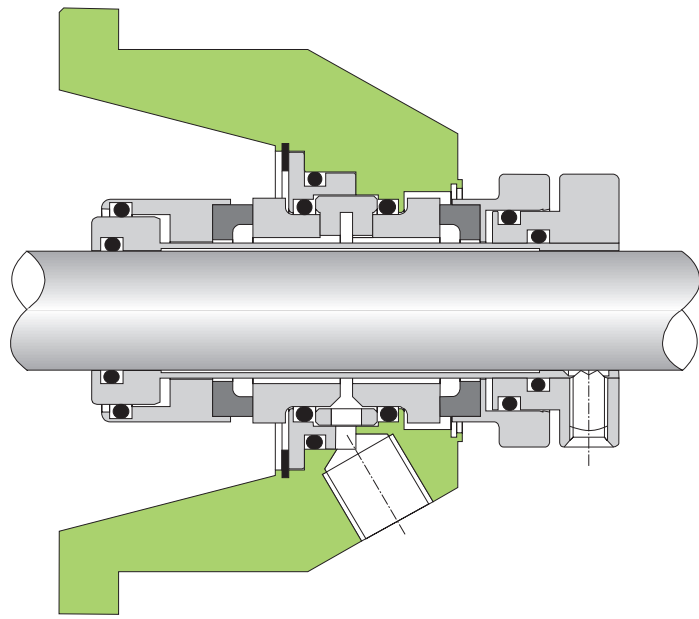
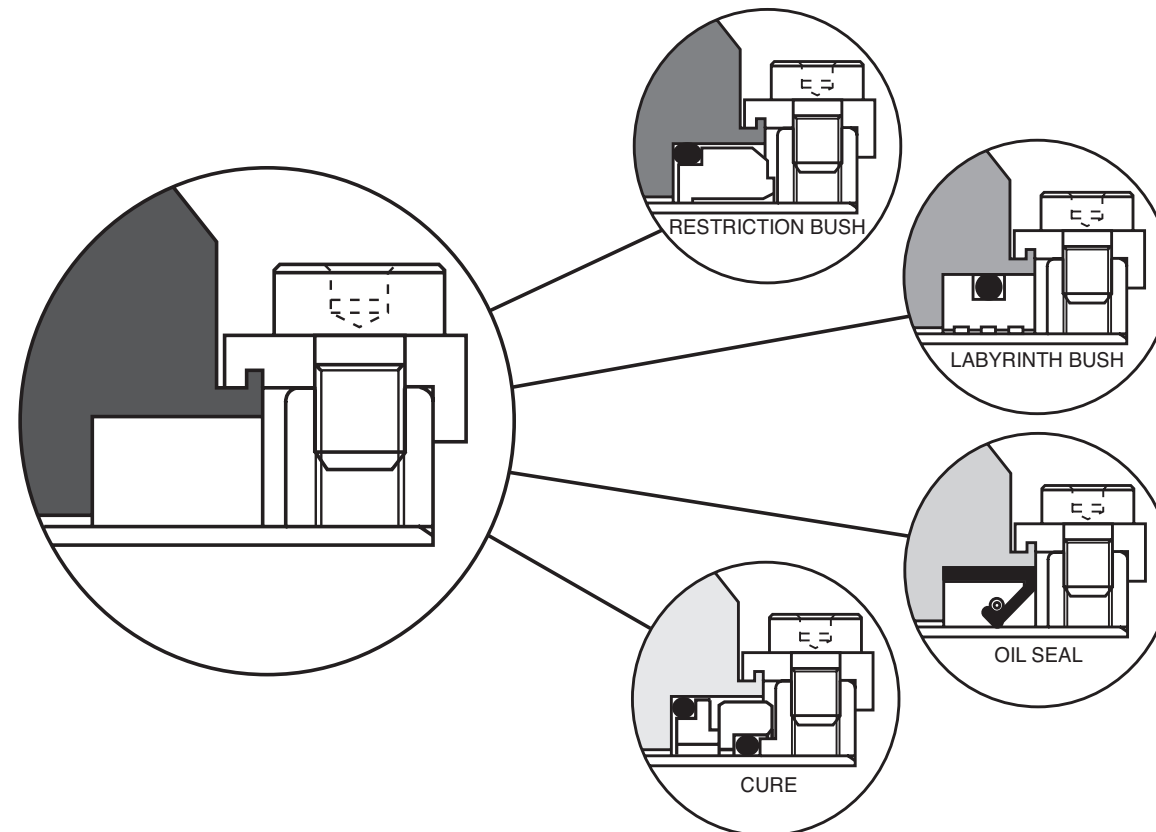


## PCP STYLE HOUSING FOR DOUBLE & SINGLE CARTRIDGE SEALS



## SINGLE SEAL OPTIONS



**Ex** Mechanical Seals are Machinery Elements for ATEX 2014/34/EU & IECEx equipment. Documentation available on request.

### Pre-Installation Checks.

- (i) Shaft Outside Diameter is within tolerance  $\pm 0.002"$  ( $\pm 0.05\text{mm}$ ).
- (ii) Shaft run out  $< 0.004"$  ( $0.1\text{mm}$ ) T.I.R.
- (iii) Shaft end float  $< 0.005"$  ( $0.13\text{mm}$ ).
- (iv) Seal chamber face runout (shaft squareness relative to mounting face)  $< 0.5 \mu\text{m}/\text{mm}$  ( $0.0005 \text{ in./in}$ ) of seal chamber bore diameter.
- (v) Fluid seal can be obtained on the Stuffing Box face.
- (vi) There are no sharp edges over which the seal 'O' Ring must pass.

### Installation instructions.

1. Lubricate the shaft with the grease provided.
2. Slide the seal onto the shaft.
3. Assemble rest of equipment in final running position.
4. Equally tighten the Drive Screws down onto the shaft.
5. Remove setting clips.
6. Spin the shaft by hand. Listen and feel for any shaft binding, etc.
7. Connect the flush, quench and drain connections. If flush connection is not required, please ensure that it is properly sealed with a 1/4"NPT plug (N/A with Double Seal)
8. Ensure the pump is primed prior to start up.
9. Retain clips and clip screws for future use.

In the absence of original equipment/fluid manufacturers instructions, ensure that the selected barrier/buffer fluid has an auto-ignition temperature at least 50°C (90°F) ABOVE the maximum surface temperature of any component with which it may come into contact, both in normal operation and in the event of leakage from the seal or barrier system.

**Note:** under certain conditions the auto-ignition temperature of a fluid can be reduced, for example if an oil is allowed to soak into damaged or unprotected insulation. If any potential sources of ignition are present in an area, it is advisable to select a barrier fluid which has a flash point higher than the maximum surface temperature of any component with which it may come into contact.

All metallic components are widely recyclable. Once the seal has reached the end of its life, it should be disposed of in accordance with local regulations and with due regard to the environment.



# PCPS

Cartridge Mechanical Seal

## INSTALLATION INSTRUCTIONS

**Ex** II 2 G D

Ex h Gb/Db



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