



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) Housing bore is nominal size $\pm 0.001"$ ($\pm 0.025\text{mm}$).
- (iii) Shaft run out $< 0.010"$ (0.25mm) T.I.R.
- (iv) Shaft end float $< 0.010"$ (0.25mm).
- (v) Seal chamber face runout (shaft squareness relative to mounting face) $< 0.5 \mu\text{m}/\text{mm}$ (0.0005 in./in) of seal chamber bore diameter.
- (vi) There are no sharp edges over which the seal 'O' Ring (2,8) and 'O' Ring (10) must pass. Break all sharp edges. Pay special attention to keyways, shaft steps and housing bore edges.
- (vii) Clean and degrease the shaft and housing bore.
- (viii) Lightly grease the shaft and shaft 'O' Ring (2,8) with the lubricant provided (P-80 lubricant ONLY).
- (ix) Check that the o-ring (2,8) position sits on an unmarked area of the shaft.
- (x) Ensure shaft surface finish is better than $32\mu"$ CLA (0.8 μm Ra) at elastomer position (2, 8 & 10)

Installation instructions.

The following installation instructions may vary, depending on the equipment configuration. Therefore use them as a guideline only.

DO NOT 'PULL' ON THE SEAL DURING INSPECTION, INSTALLATION OR EQUIPMENT ADJUSTMENTS. THIS MAY CAUSE THE SEAL TO SEPARATE AT O-RING ITEM #7

1. Remove the housing cap, clean and degrease the shaft and housing bores.
2. Mount the LabTecta®66PB seals onto the shaft, use the provided lubricant (P-80 ONLY) to grease the shaft and shaft 'O' Ring. Avoid using grease on the housing. Always position outlet ports 'Y' at the 6 o'clock position as shown in view Z. Always push on the PB when moving it on the shaft. If you 'pull' on the PB it may separate, if this happens please contact your local AESSEAL® representative for reassembly instructions.
3. Slide the seals into their running position so that they engage into the housing bores on the plunger block, it may be necessary to raise the shaft to enable this. Ensure the LabTecta®66PB housing is fully seated.
4. The housing cap should be placed over the base and the cap bolts tightened as per the manufacturer's recommendation instructions.
5. Assemble rest of equipment in final running position.
6. Fill the bearing housing with an appropriate fluid, to the OEM/suppliers recommended fluid level.
7. Spin the shaft by hand. Listen and feel for any shaft binding, etc.

The following installation guide is applicable to all types of rotating equipment however is specifically focused at PUMPS.

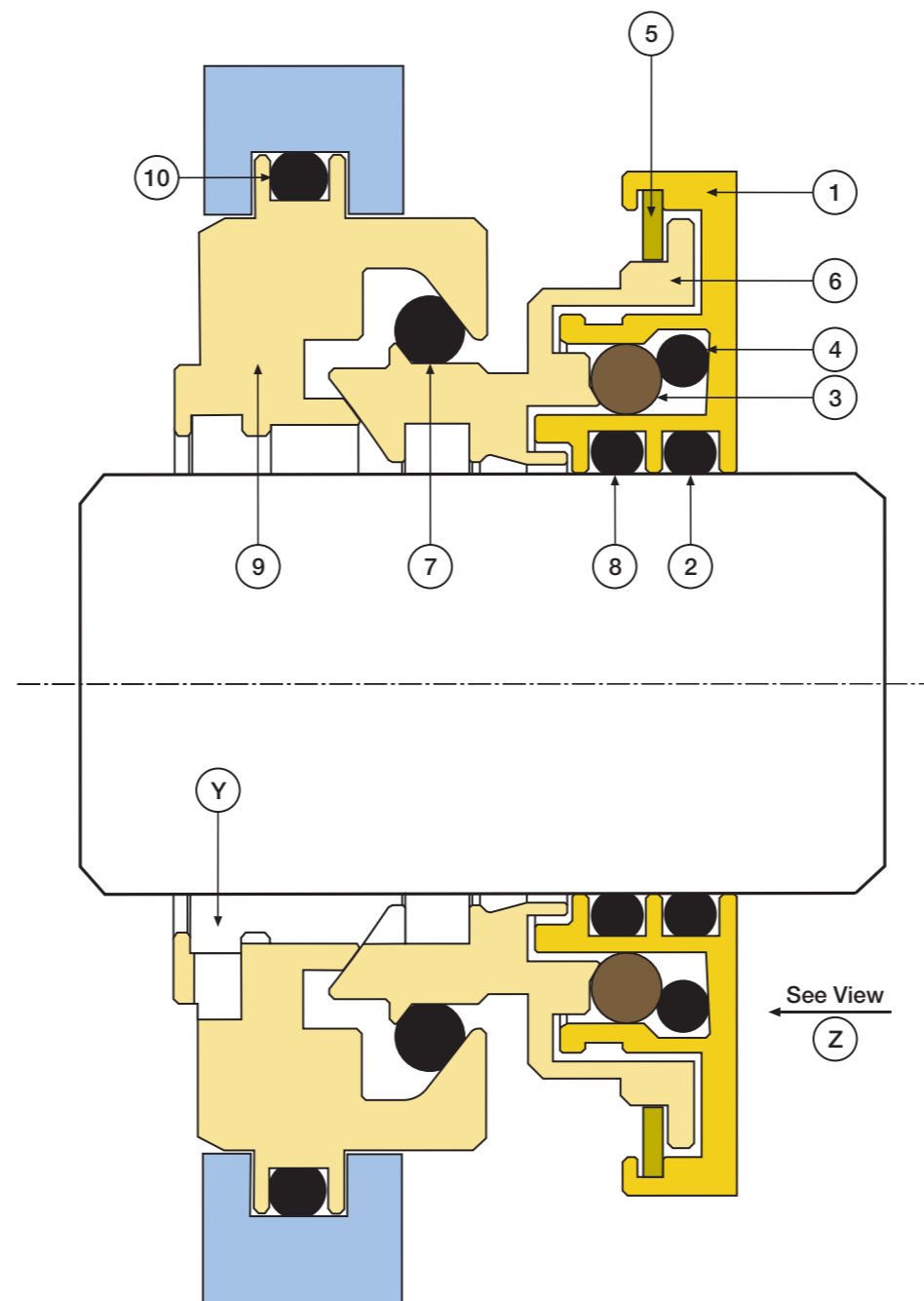
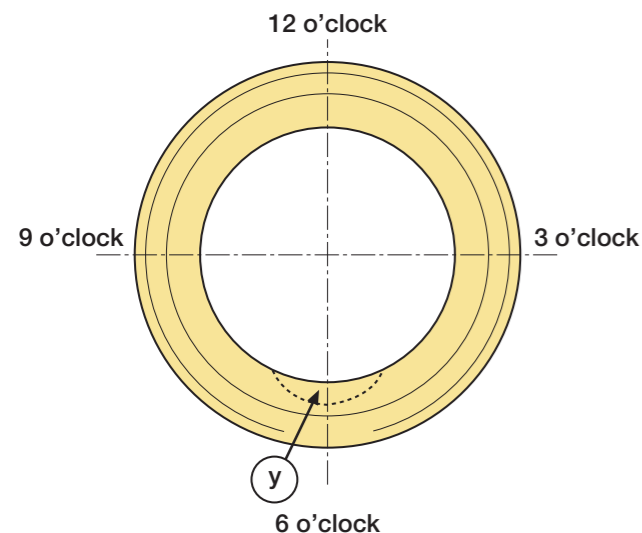
In AESSEAL® experience, following this guideline will prolong your equipment life.

- **LASER ALIGN SHAFT AND COUPLING**
- **USE SYNTHETIC BEARING LUBRICANT WHERE EVER POSSIBLE HOWEVER CHECK THE SEALED FLUID COMPATIBILITY FIRST!!!**
- **FIT A CARTRIDGE SEAL AND SYSTEM.**
- **ENSURE PUMP HYDRAULICS STABLE.**
- **REMOVE ANY PIPE STRAIN.**

The LabTecta®66 bearing isolator incorporates the latest labyrinth technology for containing oil and repelling water under SPLASHED conditions. It is NOT designed for use in either horizontal or vertical applications that are flooded with oil or other liquid.

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.

View Z



LabTecta®66PB

Labyrinth Bearing Protector

INSTALLATION INSTRUCTIONS

ITEM	DESCRIPTION	MATERIAL
1	LabTecta®66 Rotary	Phosphor Bronze
2	Outboard Rotor O-Ring	FKM
3	Arknian™ Shut Off Device	Compound Elastomer
4	Arknian™ Energizer	FKM
5	Face Shield	Composite Material
6	Stator Housing	Phosphor Bronze
7	Stator Housing O-Ring	FKM
8	Inboard Rotor O-Ring	FKM
9	Adaptor	Phosphor Bronze
10	Adaptor O-Ring	FKM



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