

Installation Instructions



SME™

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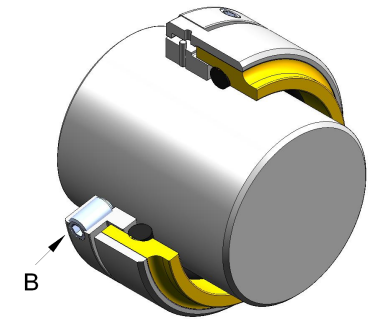
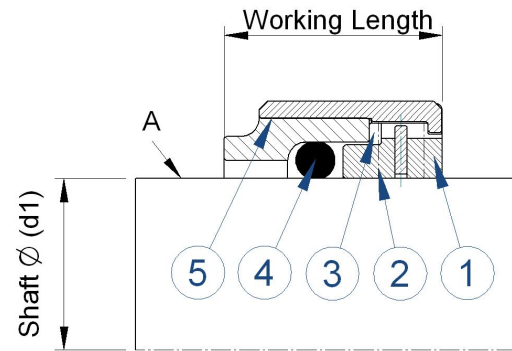
Email: seals@first4seals.com - Web: www.first4seals.com

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WARNING

Extreme care must be taken to ensure safe operation of equipment.
If in doubt seek expert advice. For Technical Support:
Email: technical@first4seals.com Telephone: +44 (0)1274 720775.



ITEM	DESCRIPTION
1	CLAMP RING
2	DRIVE SCREW
3	SPRING
4	O-RING
5	ROTARY FACE ASSY

IMPERIAL SHAFT SIZE (d1)	WORKING LENGTH
1.000" – 2.500"	1.122"
2.625" – 4.000"	1.378"

METRIC SHAFT SIZE (d1)	WORKING LENGTH
25mm – 63mm	28.5mm
65mm – 100mm	35.0mm

Pre-Installation:

- ✓ Check shaft diameter (d1) is in tolerance: Imperial Shafts +/- 0.002"
Metric Shafts +0/-0.05mm
- ✓ Check shaft run out is in tolerance: < 0.005" (0.13mm).
- ✓ Check shaft end float is in tolerance: < 0.005" (0.13mm).
- ✓ Check shaft (ref. A) for sharp edges to ensure no damage to secondary seal during installation.

Installation:

- ✓ Ensure seal parts are kept as clean as possible and protected from damage.
- ✓ Disassemble equipment to allow seal location on shaft.
- ✓ Apply suitable lubricant to shaft.
- ✓ Position seal on shaft.
- ✓ Re-assemble equipment into operational position.
- ✓ Position gland follower, including the stationary face, on to stuffing box face ensuring concentricity to shaft and fully tighten.
- ✓ Slide seal in to position against the stationary face.
- ✓ Tighten ALL fixing screws onto shaft equally (ref. B).
- ✓ Check for shaft binding or rubbing by rotating the shaft slowly by hand.
- ✓ If fouling occurs, remove the seal, check shaft and start installation again.
- ✓ If problem persists contact first4seals.
- ✓ Ensure pump is primed before operation.

DECLARATION OF INCORPORATION

This mechanical seal must not be put into service until the relevant machinery into which it is incorporated has been declared to be in conformity with the provisions of the Machinery Directive.