

# Installation Instructions



## f4s100™

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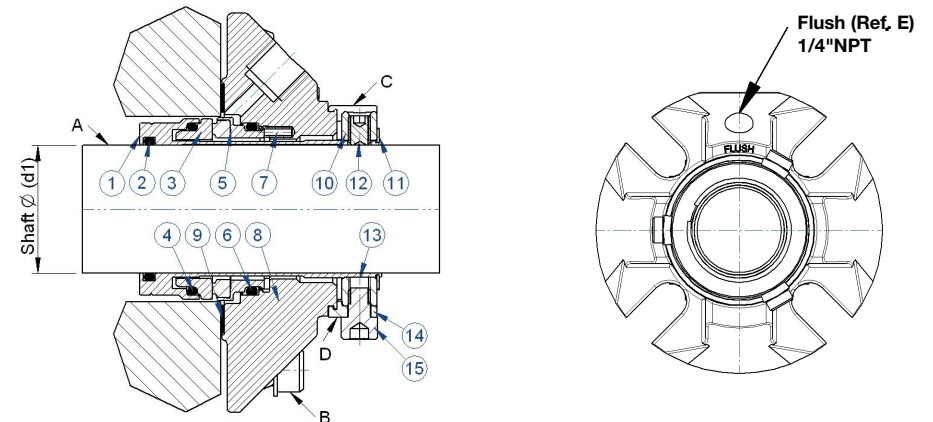
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### WARNING

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	SLEEVE
2	SLEEVE O-RING
3	ROTARY FACE
4	ROTARY FACE O-RING
5	STATIONARY FACE
6	STATIONARY FACE O-RING
7	SPRING
8	GLAND

ITEM	DESCRIPTION
9	GASKET
10	CLAMP RING
11	CIRCLIP
12	DRIVE SCREW
13	ANTI-TAMPER SCREW (NOT SHOWN)
14	SETTING CLIP
15	SETTING CLIP SCREW

### 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: <0.004" (0.1mm).
- ✓ Check shaft end float is in tolerance: <0.005" (0.13mm).
- ✓ Check stuffing box face finish to ensure suitable for creating a fluid seal.
- ✓ Check shaft (ref. A) for sharp edges to ensure no damage to secondary seal during installation.

### Installation:

- ✓ Disassemble equipment to allow seal location on shaft.
- ✓ Apply suitable lubricant to shaft.
- ✓ Position seal on shaft.
- ✓ Re-assemble equipment into operational position.
- ✓ Affix seal to mounting with appropriate fixings & washers (Not included) and tighten (ref. B).
- ✓ Tighten ALL fixing screws (ref. C) on to shaft equally.
- ✓ Remove ALL clips (ref. D).
- ✓ 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.
- ✓ Connect the Flush if required (ref. E). Ensure the port is plugged if not required.
- ✓ Ensure the 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.