

Installation Instructions



f4s200™

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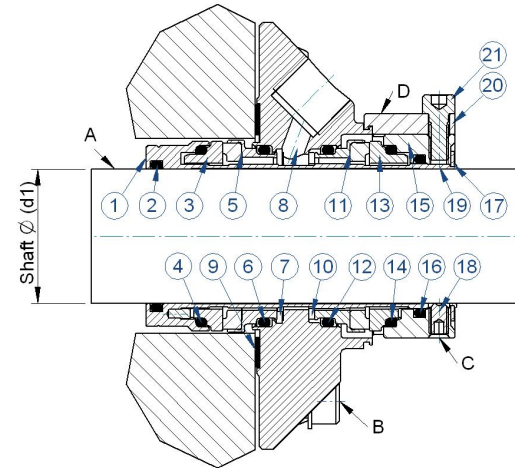
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WARNING

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	INBOARD ROTARY FACE
4	INBOARD ROTARY O-RING
5	INBOARD STATIONARY FACE
6	INBOARD STATIONARY O-RING
7	INBOARD SPRING
8	GLAND
9	GASKET
10	OUTBOARD SPRING
11	OUTBOARD STATIONARY FACE
12	OUTBOARD STATIONARY O-RING
13	OUTBOARD ROTARY FACE
14	OUTBOARD ROTARY O-RING
15	CLAMP RING
16	CLAMP RING O-RING
17	CIRCLIP
18	DRIVE SCREW
19	ANTI TAMPER SCREW (NOT SHOWN)
20	SETTING CLIP
21	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 socket set 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 Barrier ports (ref. E & F) as shown relative to direction of shaft rotation.
- ✓ Confirm barrier fluid is present before operation.

DECLARATION OF INCORPORATION

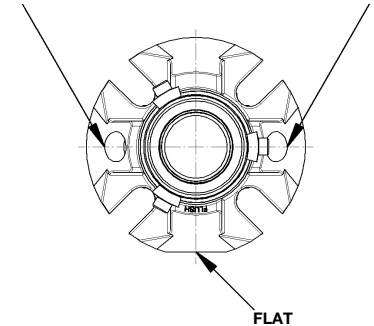
This mechanical seal must not be put into service until the relevant machinery into which it is incorporated has been declared to be in conformity with the provisions of the Machinery Directive.

f4s200™ barrier fluid porting arrangement

The f4s200™ seal design incorporates a pumping feature to aid barrier fluid circulation. Barrier fluid flow is directly related to the direction of shaft rotation. It is therefore necessary to ensure the barrier fluid system is connected correctly during installation.

Connections should be made as shown below. The flat on the gland should be used to establish seal orientation

BARRIER PORT (E) 1/4" NPT Inlet for Anti-Clockwise rotation
BARRIER PORT (F) 1/4" NPT Inlet for Clockwise rotation
Outlet for Clockwise rotation Outlet for Anti-Clockwise rotation



Seal viewed from atmospheric side