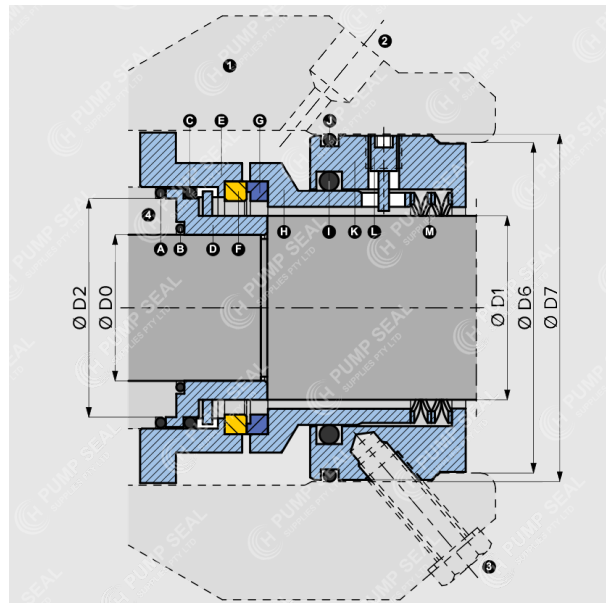


HS1F

'AHLSTAR^{UP} - INTEGRATED FLUSHED SEAL' SPECIFICATION SHEET



- Safeseal JCS1F Replacement
- Flushed Single Seal, Balanced
- Semi-Cartridge Design
- Suits Sulzer AHLSTAR^{UP} Pumps
- For Integrated Chambers

HJCS1 is a single mechanical seal in a semi-cartridge, stationary-based, wave-spring design. It is a direct replacement for pumps fitted with John Crane Safematic® Safeseal Type JCS1F. Seal operates on API plan 11, providing continuous pressurised water flush to the seal faces through a restricted throttle design.

It is suitable for Sulzer AHLSTAR^{UP} pumps fitted with integrated seal chambers (MS11, MS12 & MS21). It allows seal replacement via the impeller-end and bolt fastening through the backplate.

► Operating conditions¹

Temperature: -30°C to +120°C
 Pressure: < 16 bar, 232 psi, 1.6 MPa
 Speed: < 20m/s, 4000 fpm
 rpm < 1200000/(3.14 x D1)

¹ Guide-values only (due to diversity of possible applications). Enquire for specific-use cases. Maximum values of each parameter cannot be applied together.

► Materials

Rotary Face: (SiC)
 Stationary Face: (SiC) or (CAB)
 Elastomers: Viton®
 Metal Parts: 316S.S

(_) refers to shrink-fitted

PARTS

- 1 Integrated Chamber
- 2 Flush Ports
- 3 Bolt Fastener
- 4 Impeller
- A Spacer Sleeve O-ring
- B Spacer Sleeve O-ring
- C Rotary O-ring
- D Spacer Sleeve
- E Rotary Holder
- F Rotary Face / Ring
- G Stationary Face / Ring
- H Stationary Holder
- I Stationary O-ring
- J Seal Holder O-ring
- K Seal Holder O-ring
- L Set Screw with Pin
- M Wave Spring

EQUIVALENT

Safeseal JCS1F
 LP-S-UPF

INSTALLATION & OPERATION

Operation:

HS1F is a flushed seal. It requires seal water for operation. The sliding faces get their lubrication from seal water.

Note! Do not run the seal without seal water. Regulate the seal water flow to 0.5 - 3 L/min. Outcoming seal water temperature should not exceed 60°C. If the seal requires more cooling, increase the flow. Regulate the seal water pressure 2 bars (30 psi) higher than the product pressure to be sealed.

Installation:

1. From the impeller-side, slide the stationary assembly (parts G - M) into the end of the seal chamber.
2. Rotate the stationary assembly until the bolt (3) is able to be fastened.
3. Install the rotary and spacer sleeve assembly (parts A - F) and tighten with the impeller (4).
4. Install the seal water connections (2).

OEM names, brands, model or part numbers are used solely for reference. Our components are engineered to deliver performance and service life equivalent to or exceeding that of OEM parts when correctly installed and appropriately applied. Sulzer® AHLSTAR is a registered trademark of its respective company. Pump Seal Supplies Pty Ltd are not representative of, nor affiliated with Sulzer® AHLSTAR.