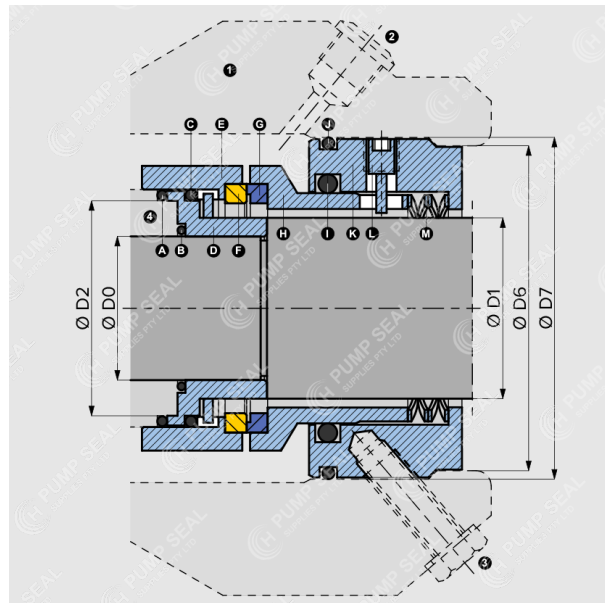


HS1

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



- **Safeseal JCS1 Replacement**
- **Single Seal, Balanced**
- **Semi-Cartridge Design**
- **Suits Sulzer AHLSTAR^{UP} Pumps**
- **For Integrated Chambers**

HS1 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 JCS1. Seal faces are lubricated by the pumped product.

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 +90°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 Port (Plugged)
- 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 JCS1
 CKSA™ / AGCS™
 LP-S

INSTALLATION & OPERATION

Operation:

The sliding faces get their lubrication from the pumped product. Do not run the seal dry.

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. Ensure all flush ports (2) are plugged prior to pump operation.