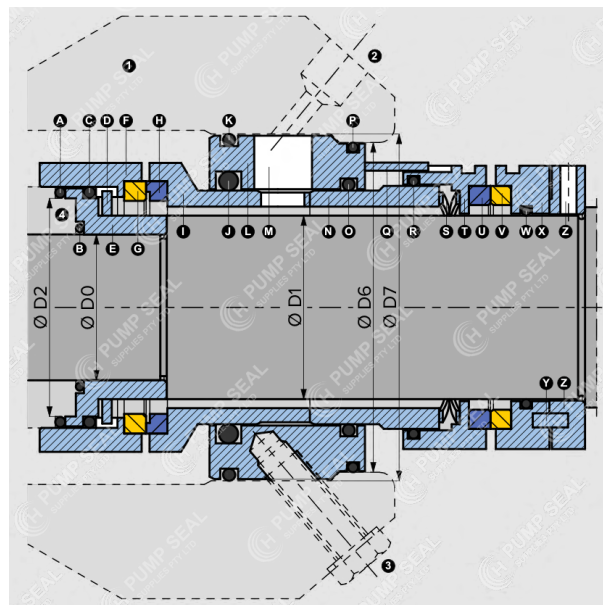


HS2P

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



- Safeseal JCS2P Replacement
- Flushed Double Seal, Balanced
- Semi-Cartridge Design
- Suits Sulzer AHLSTAR^{UP} Pumps
- For Integrated Chambers

HS2P is a double 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 JC-S2P. Seal operates with continuous pressurised water flush to the seal faces.

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 +180°C
 Pressure: < 25 bar, 360 psi, 2.5 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

Inb. Seal Faces: (SiC)/(SiC)
 Outb. Seal Faces: (SiC)/(SiC)
 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 Inb. Rotary O-ring
 D Spacer Sleeve Pin
 E Spacer Sleeve
 F Inb. Rotary Holder
 G Inb. Rotary Face
 H Inb. Stationary Face
 I Inb. Stationary Holder
 J Inb. Stationary O-ring
 K Seal Holder O-ring
 L Seal Holder
 M Seal Holder Flush Hole
 N Thrust Ring
 O Thrust Ring O-ring
 P Seal Holder O-ring
 Q Seal Holder Pin
 R Outb. Stationary O-ring
 S Wave Spring
 T Outb. Rotary Holder
 U Outb. Stationary Face
 V Outb. Rotary Face
 W Outb. Rotary O-ring
 X Outb. Rotary Holder
 Y Drive Pin
 Z Drive Collar + Set Screw

INSTALLATION & OPERATION

Operation:

HS2P is a double-acting mechanical 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. Slide the drive collar (Z) and outboard rotary (parts V - X) onto the shaft up against the shaft shoulder, ensuring the pin (Y) is engaged.
2. From the impeller-side, slide the stationary assembly (parts H - U) into the end of the seal chamber, ensuring the pins (Q) engages with the slots in the outboard stationary holder (T).
3. Rotate the stationary assembly until the bolt (3) is able to be fastened.
4. Install the inboard rotary and spacer sleeve assembly (parts A - G) and tighten with the impeller (4).
4. Install the seal water connections (2).

EQUIVALENT

Sulzer TB2P
 Safeseal S2P
 LP-D

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