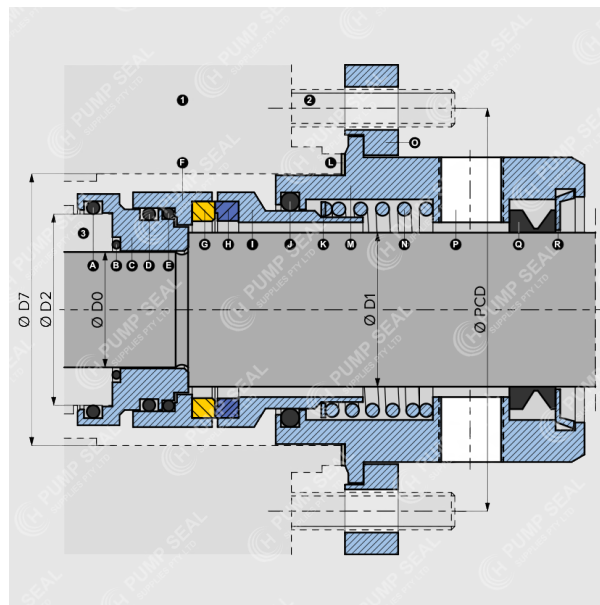


HSEW

'AHLSTAR™ - SINGLE QUENCHED SEAL'
SPECIFICATION SHEET

- Safeseal SEW Replacement
- Quench, Single Seal, Balanced
- Semi-Cartridge Design
- Suits Sulzer AHLSTAR™ Pumps
- For Gland Packing Chambers

HSEW is a single mechanical seal in a semi-cartridge, stationary-based, single-spring design that accommodates a non-pressurised (quench) fluid. It is a direct replacement for pumps fitted with John Crane Safematic® Safe-seal Type SEW. The quenching fluid cools the seal at high-temperatures, which can be controlled e.g. via a John Crane Safeunit™ device.

It is suitable for Sulzer AHLSTAR™ APP and APT pumps fitted with the standard gland packing casing covers / seal chambers.

The bolting plate is adaptable for use with 2, 3 or 4-bolt stud mounts

► Operating conditions¹

Temperature: -30°C to +151°C
 Pressure: < 15 bar, 220 psi, 1.5 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

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

(_) refers to shrink-fitted

PARTS

- 1 Gland Packing Chamber
 - 2 Mounting Studs
 - 3 Impeller
- A Spacer Sleeve O-ring
 B Spacer Sleeve O-ring
 C Spacer Sleeve
 D Spacer Sleeve O-ring
 E Rotary O-ring
 F Rotary Holder
 G I Rotary Face
 H Stationary Face
 I Stationary Holder
 J Seal Holder O-ring
 K Seal Holder Thrust Ring
 L Seal Holder Gasket
 M Seal Holder
 N Seal Holder Spring
 O Seal Holder Bolting Plate
 P Quench Port
 Q V-Ring
 R V-Ring Retainer

EQUIVALENT

Sulzer TB1Q
 Safeseal SEW
 LP-Q-S32-E20

INSTALLATION & OPERATION

Operation:

The sliding faces get their lubrication from the pumped product. The quench seal water is for cooling only.

Note! Avoid running the seal dry. Regulate the seal water flow to 0.5 - 3 L/min. Seal water is unpressurised (0 bar).

Installation:

1. With the shaft removed, slide the rotary and spacer sleeve assembly (parts A - G) onto shaft shoulder.
2. Re-install the shaft and tighten with the impeller (3)
3. Slide the stationary assembly (parts H - R) along with the bolting plate (O) onto the mounting studs (2) on the rear of the standard gland packing chamber casing cover (1) and bolt.
3. Install the seal water connections.

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.