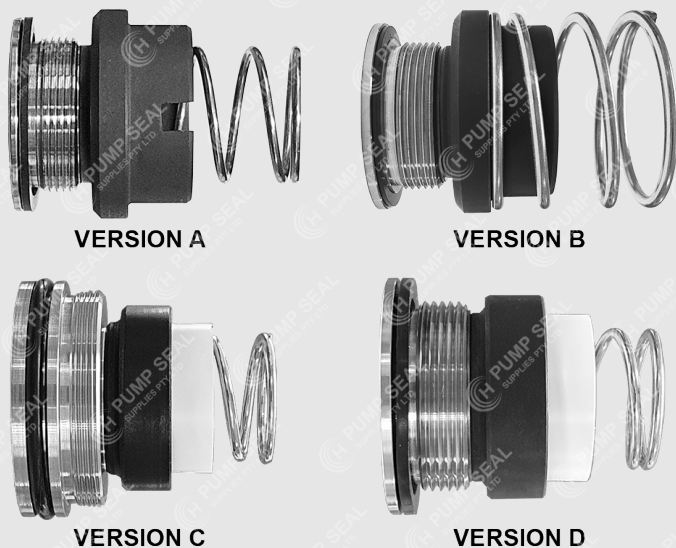


HA-22

'ALFA LAVAL - 22MM SHAFT SEALS'
SPECIFICATION SHEET

- **22mm Shaft Seal Range**
- **OEM Replacements**
- **Outphased Alfa Laval® Pumps**

HA-22 is a range of mechanical seals to suit 22mm shafts for various Alfa Laval® pumps; many of which have been outphased. Four configurations (Ver. A, B, C & D) are available.

Version A - "M91" internal-spring rotary with "GA" gasket-mounted threaded seat. Typically suits CM & EM centrifugal pumps.

Version B - "M91B" external-spring rotary with "GA" gasket-mounted threaded seat. Typically suits FM centrifugal pumps.

Version C - "M93" rotary with protective sleeve with "OA" o-ring mounted threaded seat. Typically suits MR166 liquid ring pumps.

Version D - "M93" rotary with protective sleeve with "GA" gasket-mounted threaded seat. Typically suits GM centrifugal pumps.

► Material Options

Rotary Face: CAB or SiC
 Stationary Face: 304SS or (SiC)
 Elastomers: EPDM
 Metal Parts: 304SS

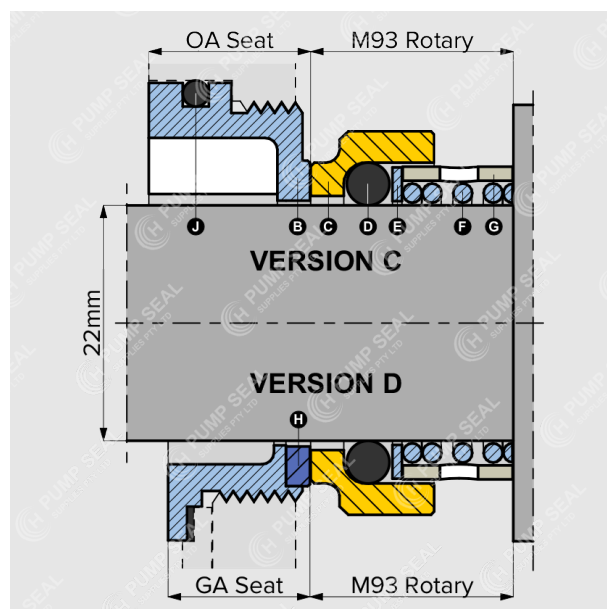
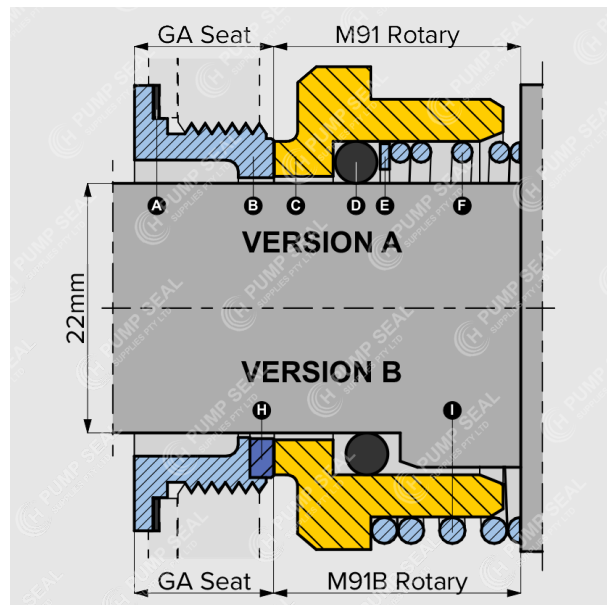
(_) refers to shrink-fitted

PARTS

- A Stationary Gasket
- B Stationary Face / Ring
- C Rotary Face / Ring
- D Rotary O-ring
- E Rotary Washer
- F Rotary Internal Spring
- G Rotary Protective Sleeve
- H Stationary Face / Ring
- I Rotary External Spring
- J Stationary O-ring

EQUIVALENT

P07-0220
 P07U-0220
 Type 91, 91B, 93, 93B



SEAL CONFIGURATIONS

VER.	SEAT	ROTARY	PUMP
Version A	GA	M91	FM Range
Version B	GA	M91B	CM, EM Range
Version C	OA	M93	MR166 Range
Version D	GA	M93	GM Range

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. Alfa Laval® is a registered trademark of its respective company. Pump Seal Supplies Pty Ltd are not representative of, nor affiliated with Alfa Laval®