PSS 4
Split Seal
Intrinsic joint alignment technology

Experience In Motion
The PSS 4 split seal provides the easiest and most successful installation routine to make reduced equipment downtime and increased reliability......routine.

Simple installation and versatile design

With only two major components, the PSS 4 split seal makes installation quick and easy without requiring equipment tear down. The pre-assembled semi-cartridge rotating and stationary halves eliminate equipment measurements and handling of small intricate components, including seal faces and gaskets. This innovative design with enhanced pressure capability makes the PSS 4 ideal for nearly all industries including pulp and paper, waste water treatment, power generation and light chemical.

The PSS 4 difference

- Fully split design installs around the shaft, outside of the seal chamber, eliminating the need to dismantle the equipment for seal installation.
- Easy installation made even easier with fully pre-assembled, unitized component, semi-cartridge segments.
- All internal gaskets are mechanically held in place, eliminating the need for adhesives.
- Exclusive 3D Key technology assures optimum seal face alignment in both axial and radial directions, reducing joint leakage and installation time.
- Setting tabs position the rotating face for optimal joint reunion while properly locating the rotor assembly without measuring or marking, further assuring first time/every time installation success.
- The positive drive rotor is held firmly in place by eight set screws enabling use in higher pressures and fluid viscosities.
- Sealing faces are driven by direct drive pins, significantly increasing viscous fluid sealing capability over friction driven faces.
- Easily handles mixer equipment runout up to 1.5 mm (0.060 inch) TIR radial shaft movement, accommodating demanding mixer characteristics.
- All springs and pins are outside of the process fluid, reducing chance of clogging or corrosion.
- Standardized NPT port enables direct flush line installation with standard fittings and wrenches.
Materials of Construction

Stator Face: Carbon, Silicon Carbide
Rotor Face: Silicon Carbide, Aluminum Oxide
Metal Parts: 316 Stainless Steel
Springs: Alloy C-276
Secondary Seals: FKM, EPDM

Standard Operating Limits

Pressure: Full vacuum to 30 bar (450 psi)
Temperature: -18 to 121°C (0 to 250°F)
Speed: 19.3 m/s (3800 fpm)
Sizes: 38 mm - 152 mm (1.500 - 6.000 inch) for larger sizes use the PSSL

Other sizes available on request. Contact Flowserve Engineering.

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**SEB (Solids Excluder Bushing)**

The SEB reduces the amount of flush required and clears solids from the seal chamber. This provides a cleaner operating environment that helps reduce operating costs and improves Mean Time Between Planned Maintenance (MTBPM). For more information on the SEB, see FSD211.

**Split Flow Reducer**

An engineered, close clearance device that lowers seal water flush (Plan 32) requirements when used with a Flowserve seal. Split axially for easy installation and constructed of glass-filled PTFE for corrosion and abrasion resistance.