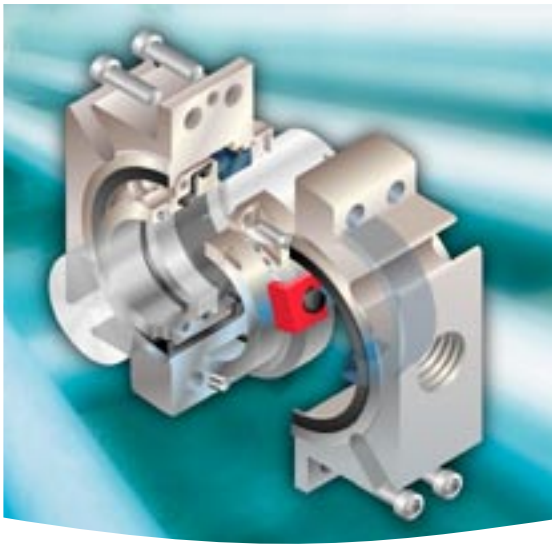
FLOWSERVE

PSS II
Split Seal

The PSS II, a split seal with only two components, allows for installation without equipment tear down. The semi-cartridge rotating and stationary assemblies eliminate equipment measurements and handling of seal faces and gaskets. The PSS II is ideal for general chemical industry, pulp and paper, wastewater treatment, power generation, and mining services.



Features and Benefits

- Installation around the shaft outside the chamber; no need to dismantle the pump and primary driver
- Unitized, component, semi-cartridge design allows for easy installation
- Unique setting devices position and center assemblies; no need for special tools or measurements required for installation
- Standard design flexible stator with large radial clearance; accommodates up to 0.060 inch (1.5 mm) total indicated runout
- Set screws allow for a positive drive mechanism in lubricating fluids
- Seal faces are pin driven for positive seal face torque in higher viscosity services
- Non-wetted springs and pins eliminate clogging and seal face hang-up
- Standard NPT flush tap connection used for flushing at the seal faces; maintains a clean, cool seal environment in paper stock and other applications

Materials of Construction

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

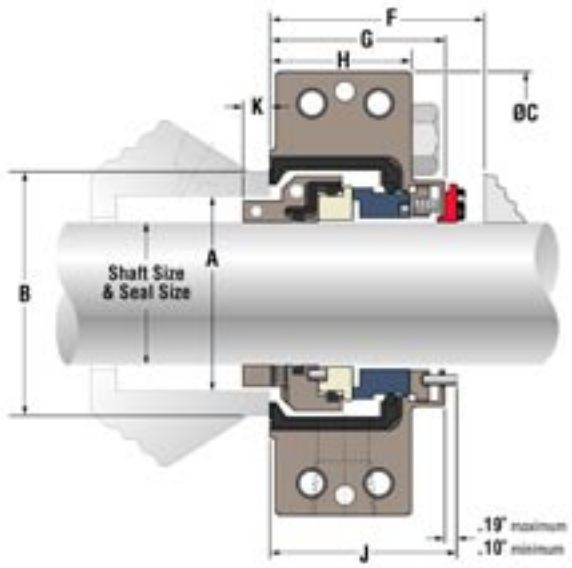
Operating Parameters

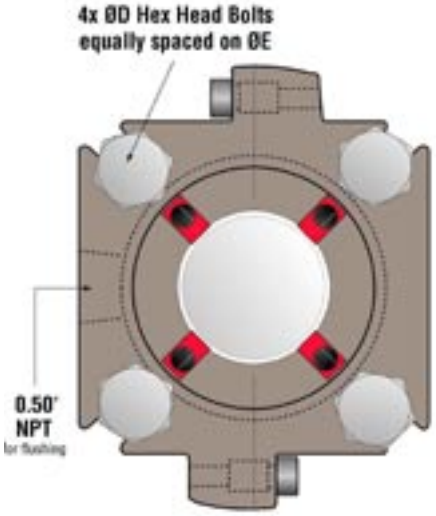
Pressure	Up to 150 psig (10 bar)
Temperature	Up to 250°F (121°C)
Speed	Up to 2600 RPM
Shaft Sizes	1.500 to 6.000 inch (38 to 152 mm)

PSS II Dimensional Data *in inches*

Shaft & Seal Size +0.001" -0.002"	A	B Min	C Min	D Max	E Min	E Max	F Min	G	H	J Max	K
1.500	2.12 to 2.50	2.75	5.25	0.500	3.50	4.33	2.50	2.12	1.71	2.31	0.33
1.625	2.25 to 2.62	2.88	5.50	0.500	3.62	4.75	2.50	2.12	1.71	2.31	0.33
1.750	2.38 to 2.75	3.00	5.41	0.500	3.75	4.36	2.50	2.12	1.71	2.31	0.33
1.875	2.50 to 2.88	3.12	5.53	0.500	3.88	4.67	2.50	2.12	1.71	2.31	0.33
2.000	2.62 to 3.00	3.25	5.75	0.500	4.03	5.06	2.50	2.12	1.71	2.31	0.33
2.125	2.75 to 3.25	3.50	5.69	0.625	4.44	5.38	2.72	2.34	1.84	2.53	0.39
2.250	2.88 to 3.38	3.62	5.81	0.625	4.56	5.64	2.72	2.34	1.84	2.53	0.39
2.375	3.00 to 3.50	3.75	5.94	0.625	4.69	5.06	2.72	2.34	1.84	2.53	0.39
2.500	3.12 to 3.75	3.88	6.88	0.625	5.00	6.20	2.72	2.34	1.84	2.53	0.39
2.625	3.25 to 3.75	4.00	6.19	0.625	4.94	6.00	2.72	2.34	1.84	2.53	0.39
2.750	3.38 to 3.88	4.12	6.75	0.625	5.06	6.17	2.72	2.34	1.84	2.53	0.39
2.875	3.50 to 4.00	4.25	6.44	0.625	5.19	5.94	2.72	2.34	1.84	2.53	0.39
3.000	3.62 to 4.12	4.38	7.62	0.750	5.56	6.63	2.72	2.34	1.84	2.53	0.39
3.125	3.75 to 4.25	4.50	7.06	0.750	5.56	6.44	2.72	2.34	1.84	2.53	0.39
3.250	3.88 to 4.38	4.62	7.19	0.750	5.69	6.63	2.72	2.34	1.84	2.53	0.39
3.375	4.00 to 4.50	4.75	7.31	0.750	5.81	6.69	2.72	2.34	1.84	2.53	0.39
3.500	4.25 to 5.00	5.25	8.50	0.750	6.38	7.45	3.06	2.69	2.19	2.88	0.51
3.625	4.38 to 5.13	5.38	8.00	0.750	6.50	7.37	3.06	2.69	2.19	2.88	0.51
3.750	4.50 to 5.25	5.50	8.75	0.750	6.63	7.83	3.06	2.69	2.19	2.88	0.51
3.875	4.63 to 5.38	5.63	8.25	0.750	6.75	7.63	3.06	2.69	2.19	2.88	0.51
4.000	4.75 to 5.50	5.75	9.00	0.875	7.00	7.92	3.06	2.69	2.19	2.88	0.51
4.125	4.88 to 5.63	5.88	8.88	0.875	7.13	8.13	3.06	2.69	2.19	2.88	0.53
4.250	5.00 to 5.75	6.00	9.00	0.875	7.25	8.25	3.06	2.69	2.19	2.88	0.57
4.375	5.13 to 5.88	6.13	9.13	0.875	7.38	8.38	3.06	2.69	2.19	2.88	0.60
4.500	5.25 to 6.00	6.25	9.25	0.875	7.50	8.50	3.06	2.69	2.19	2.88	0.64
4.625	5.38 to 6.13	6.38	9.38	0.875	7.63	8.63	3.06	2.69	2.19	2.88	0.68
4.750	5.50 to 6.25	6.50	9.26	0.875	7.75	8.51	3.06	2.69	2.19	2.88	0.72
4.875	5.63 to 6.38	6.63	9.63	0.875	7.88	8.88	3.06	2.69	2.19	2.88	0.75
5.000	5.75 to 7.00	7.25	10.65	0.875	8.50	10.00	3.06	2.69	2.19	2.88	0.79
5.125	5.88 to 7.13	7.38	10.38	0.875	8.63	9.63	3.06	2.69	2.19	2.88	0.83
5.250	6.00 to 7.25	7.50	10.50	0.875	8.75	9.75	3.06	2.69	2.19	2.88	0.87
5.375	6.13 to 7.38	7.63	10.63	0.875	8.88	9.88	3.06	2.69	2.19	2.88	0.90
5.500	6.25 to 7.50	7.75	11.50	0.875	9.00	10.75	3.06	2.69	2.19	2.88	0.94
5.625	6.38 to 7.63	7.88	10.88	0.875	9.13	10.13	3.06	2.69	2.19	2.88	0.98
5.750	6.50 to 7.75	8.00	11.00	0.875	9.25	10.25	3.06	2.69	2.19	2.88	1.02
5.875	6.63 to 7.88	8.13	11.13	0.875	9.38	10.38	3.06	2.69	2.19	2.88	1.05
6.000	6.75 to 8.00	8.25	11.25	0.875	9.50	11.25	3.06	2.69	2.19	2.88	1.09

Other sizes available on request. Contact Flowserve Engineering.





The Split Flow Reducer is the perfect accessory for the PSS II

The Split Flow Reducer is an engineered, close clearance device which lowers seal water flush (API Plan 32) requirements when used with the PSS II. Split axially for easy installation, the Split Flow Reducer is constructed of glass filled PTFE for corrosion and abrasion resistance.



FSD125eng REV 03-07 Printed in USA

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