



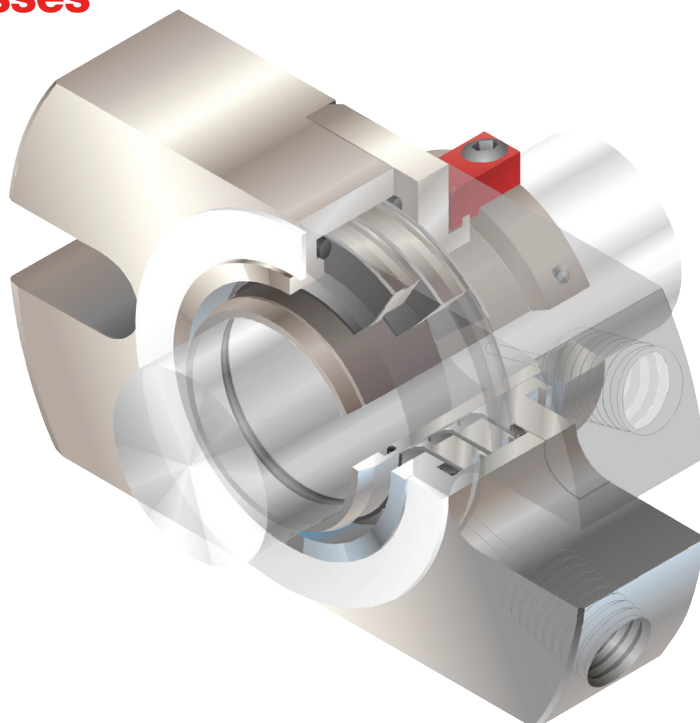
LS-300 Multi-Lip Seal

Cartridge design simplifies installation for a broad range of industrial and food processes

The LS-300 multi-lip seal meets diverse needs, handling everything from highly viscous fluids to cold-starting, dry-running and intermittently operated equipment. It's ideal for plant operators looking to reduce flush fluid consumption and works well with thick or polymerizing substances like asphalts, foods, inks, latex, paints, resins and soaps.

The LS-300 seal is designed for use with standard Viking positive displacement-style pumps without the need for any pump modifications. Its self-centered cartridge mounts outside a sealed chamber for easy installation. In addition, the LS-300 seal can replace packing and end-face mechanical seals that require external flush or have poor service life and/or high leakage rates.

The LS-300 seal tolerates running dry without the need for an external flush or lubricating barrier fluid, which can contaminate or dilute the process media.



Customer benefits

Simplify installation with a preset cartridge that helps to eliminate seal setting errors.

Minimize emissions with a triple-lip design that effectively seals process fluids from the atmosphere.

Handle upset conditions that lead to intermittent or long dry running operation as a result of the lip material and design.

Minimize costs with an interchangeable design compatible with both standard and universal bracket Viking pumps, with just a gasket change.

Provide flexibility with standard barrier ports for an optional leak detection system or, if pumping solidifying or polymerizing products, an external barrier fluid.

Extend mean time between preventative maintenance (MTBPM) cycles from a few months to two years.

Materials of construction

- | | |
|------------------------|---|
| • Metal components | 316 stainless steel |
| • Rotor sleeve surface | Chrome oxide |
| • Dynamic lips | Reinforced PTFE (standard); food-grade (optional) |
| • Gaskets | Fluoroelastomer, TFE-Propylene, Perfluoroelastomer, PTFE-encapsulated Fluoroelastomer |

Operating parameters

- | | |
|--------------------|---------------------------------|
| • Viscosity | 27 to 20,000 cP* |
| • Pressure | to 10 bar (145 psi) |
| • Temperature | -54°C to 149°C (-65°F to 300°F) |
| • Specific gravity | 0.45 and higher |
| • Surface speed | 3.5 m/s (12 fps) dry |
| • Shaft sizes | 1.000 to 4.500 in. |

**For higher viscosity, contact a Flowserve representative.*

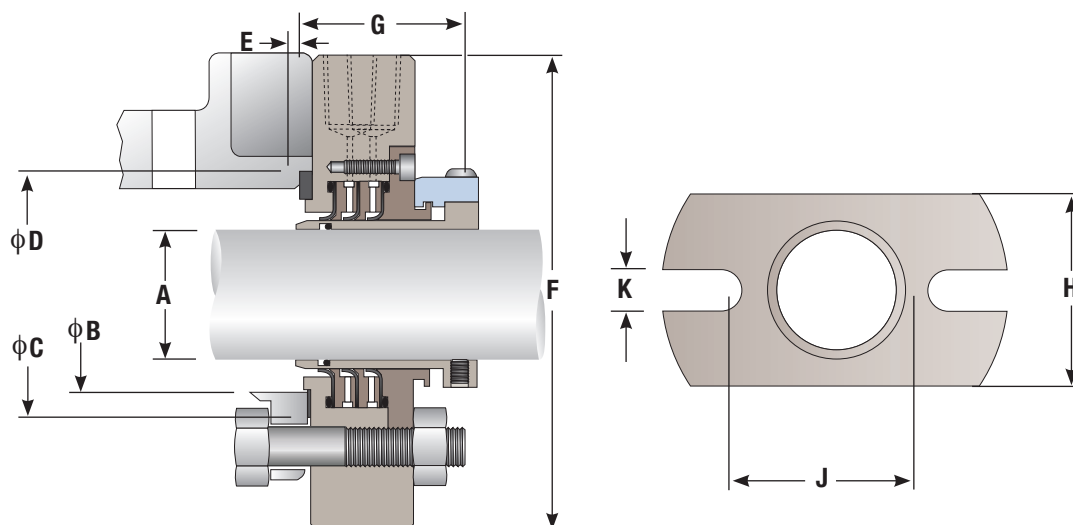
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Contact us

Learn more about the LS-300 seal and see how Flowserve can exceed your expectations! [Flowserve.com/contact-us](https://www.flowserve.com/contact-us)

LS-300 multi-lip seal



Dimensional data

	mm									
Seal Size	A	B	C	D	E	F	G	H	J	K
0.750	19.05	34.93	41.28	41.28	1.600	76.20	43.43	41.28	44.20	7.950
1.125	28.57	50.80	63.50	63.50	1.600	101.6	46.99	57.15	61.93	12.70
1.375	34.92	53.98	71.12	71.12	1.600	132.0	48.77	73.15	69.85	12.70
1.437	36.50	55.27	71.12	68.25	3.175	132.0	46.02	73.15	69.85	12.70
1.500	38.10	57.15	88.90	88.90	0.787	111.1	43.94	N/A	98.43*	6.350*
1.625	41.27	60.33	69.98	69.98	1.600	120.7	54.10	76.20	69.85	12.70
1.875	47.62	70.05	81.08	81.08	1.600	149.2	52.43	108.0	81.79	11.13
2.125	53.97	79.38	95.25	95.25	1.600	165.1	53.64	101.6	139.7*	14.30*
2.250	57.15	82.55	95.25	95.25	1.600	133.4	53.59	N/A	108.0*	12.70*
2.437	61.90	76.20	103.4	113.8	3.175	170.2	52.07	112.8	122.8	17.48
2.500	63.59	76.20	103.4	113.8	3.175	170.2	52.07	112.8	122.8	17.48
2.953	75.01	111.99	124.5	124.5	6.350	169.9	58.42	136.5	150.1*	10.01*

* Non-slotted gland ring

	in.									
Seal Size	A	B	C	D	E	F	G	H	J	K
0.750	0.750	1.375	1.625	1.625	0.063	3.000	1.710	1.625	1.740	0.313
1.125	1.125	2.000	2.500	2.500	0.063	4.000	1.850	2.250	2.438	0.500
1.375	1.375	2.125	2.800	2.800	0.063	5.200	1.920	2.880	2.750	0.500
1.437	1.437	2.176	2.800	2.687	0.125	5.200	1.812	2.880	2.750	0.500
1.500	1.500	2.250	3.500	3.500	0.031	4.375	1.730	N/A	3.875*	0.250*
1.625	1.625	2.375	2.755	2.755	0.063	4.750	2.130	3.000	2.750	0.500
1.875	1.875	2.758	3.192	3.192	0.063	5.875	2.064	4.250	3.220	0.438
2.125	2.125	3.125	3.750	3.750	0.063	6.500	2.112	4.000	5.500*	0.563*
2.250	2.250	3.250	3.750	3.750	0.063	5.250	2.110	N/A	4.250*	0.500*
2.437	2.437	3.000	4.070	4.480	0.125	6.700	2.050	4.440	4.835	0.688
2.500	2.500	3.000	4.070	4.480	0.125	6.700	2.050	4.440	4.835	0.688
2.953	2.953	4.409	4.900	4.900	0.250	6.688	2.300	5.375	5.906*	0.394*