

LS-300

Cartridge multiple dynamic lip seal

A cartridge multiple dynamic lip seal design for highly viscous applications in positive displacement and progressive cavity pumps. Designed to run dry without the need for an external flush or lubricating barrier fluid which can contaminate or dilute the process media. Preset cartridge design speeds installation and reduces the chance for installation error.



Features and Benefits

- · Preset cartridge helps to eliminate seal setting errors.
- Triple lip design effectively seals process from atmosphere.
- Lip material designed for long dry running operation.
- Design is interchangeable between standard and Universal bracket Viking¹ pumps with just a gasket change.
- Standard barrier ports for optional leak detection or for an external fluid barrier when solidifying or polymerizing products are pumped.
- · Easy to repair in the field with optional repair kit.
 - 1 Viking Pump, Inc a Unit of IDEX Corporation

Metal Components 316 Stainless Steel

Rotor Sleeve Surface Chrome Oxide

Dynamic Lips Reinforced PTFE (standard)

Food Grade (optional)

Gaskets Fluoroelastomer, TFE-Propylene,

Perfluoroelastomers,

PTFE Encapsulated Fluoroelastomer

Operating Parameters

Pressure up to 10 bar (145 psi)

Temperature -53° to 149°C

(-65° to 300°F)

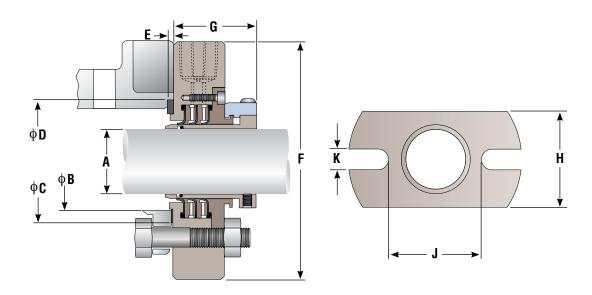
Specific Gravity 0.45 and higher

Surface Speed 3.5 m/s dry (12 fps)

Shaft Sizes 400 to 60,000 SSU

(For higher viscosity, your Flowserve representative)





Dimensional Data in millimeters

in inches

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В	С	D	Ε	F	G	Н	J	K	В	С	D	E	F	G	Н	J	K	
е																		
34.93	41.28	41.28	1.600	76.20	43.43	41.28	44.20	7.950	1.375	1.625	1.625	0.063	3.000	1.710	1.625	1.740	0.313	
50.80	63.50	63.50	1.600	101.6	46.99	57.15	61.93	12.70	2.000	2.500	2.500	0.063	4.000	1.850	2.250	2.438	0.500	
53.98	71.12	71.12	1.600	132.0	48.77	73.15	69.85	12.70	2.125	2.800	2.800	0.063	5.200	1.920	2.880	2.750	0.500	
55.27	71.12	68.25	3.175	132.0	46.02	73.15	69.85	12.70	2.176	2.800	2.687	0.125	5.200	1.812	2.880	2.750	0.500	
57.15	88.90	88.90	0.787	111.1	43.94	n/a	98.43*	6.350*	2.250	3.500	3.500	0.031	4.375	1.730	n/a	3.875*	0.250*	
60.33	69.98	69.98	1.600	120.7	54.10	76.20	69.85	12.70	2.375	2.755	2.755	0.063	4.750	2.130	3.000	2.750	0.500	
70.05	81.08	81.08	1.600	149.2	52.43	108.0	81.79	11.13	2.758	3.192	3.192	0.063	5.875	2.064	4.250	3.220	0.438	
79.38	95.25	95.25	1.600	165.1	53.64	101.6	139.7*	14.30*	3.125	3.750	3.750	0.063	6.500	2.112	4.000	5.500*	0.563*	
82.55	95.25	95.25	1.600	133.4	53.59	n/a	108.0*	12.70*	3.250	3.750	3.750	0.063	5.250	2.110	n/a	4.250*	0.500*	
76.20	103.4	113.8	3.175	170.2	52.07	112.8	122.8	17.48	3.000	4.070	4.480	0.125	6.700	2.050	4.440	4.835	0.688	
76.20	103.4	113.8	3.175	170.2	52.07	112.8	122.8	17.48	3.000	4.070	4.480	0.125	6.700	2.050	4.440	4.835	0.688	
111.99	124.5	124.5	6.350	169.9	58.42	136.5	150.1*	10.01*	4.409	4.900	4.900	0.250	6.688	2.300	5.375	5.906*	0.394*	
	34.93 50.80 53.98 55.27 57.15 60.33 70.05 79.38 82.55 76.20 76.20	34.93 41.28 50.80 63.50 53.98 71.12 55.27 71.12 57.15 88.90 60.33 69.98 70.05 81.08 79.38 95.25 82.55 95.25 76.20 103.4 76.20 103.4	34.93 41.28 41.28 50.80 63.50 63.50 53.98 71.12 71.12 55.27 71.12 68.25 57.15 88.90 88.90 60.33 69.98 69.98 70.05 81.08 81.08 79.38 95.25 95.25 82.55 95.25 95.25 76.20 103.4 113.8 76.20 103.4 113.8	8 34.93 41.28 41.28 1.600 50.80 63.50 63.50 1.600 53.98 71.12 71.12 1.600 55.27 71.12 68.25 3.175 57.15 88.90 88.90 0.787 60.33 69.98 69.98 1.600 70.05 81.08 81.08 1.600 79.38 95.25 95.25 1.600 82.55 95.25 95.25 1.600 76.20 103.4 113.8 3.175 76.20 103.4 113.8 3.175	34.93 41.28 41.28 1.600 76.20 50.80 63.50 63.50 1.600 101.6 53.98 71.12 71.12 1.600 132.0 55.27 71.12 68.25 3.175 132.0 57.15 88.90 88.90 0.787 111.1 60.33 69.98 69.98 1.600 120.7 70.05 81.08 81.08 1.600 149.2 79.38 95.25 95.25 1.600 165.1 82.55 95.25 95.25 1.600 133.4 76.20 103.4 113.8 3.175 170.2 76.20 103.4 113.8 3.175 170.2	8 34.93 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^{*}non-slotted gland ring

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