

SteriLobe

Rotary Lobe Pumps



An Original Quality Product from
JOHNSON PUMP (UK)

IDEX
IDEX CORPORATION

A Subsidiary of Viking Pump Inc.
A Unit of IDEX Corporation

SteriLobe

The all new Steri-Lobe® range, setting new standards for Rotary Lobe pumps.

Unique design characteristics combine to make Steri-Lobe ideal for hygienic or industrial application

Product Features:

- Easy accessibility to seal area enhances cleaning and CIP capabilities.
- Generous seal access facilitates simple front loading and removal of seal, even for flushed and double options without stripping the pump.
- Cover joint profile improves hygienic characteristics and self-draining capabilities.
- Rugged gearbox construction enables the carrying of radial loads.
- Stainless gear cover and electro-less nickel plated bearing housing provide clean and corrosion resistant external finish.

Johnson Pump (UK) Ltd. introduce a new generation of lobe pumps to further demonstrate their innovative market leadership. In addition to improving on the features you have come to expect from one of the World's leading manufacturers, we have also incorporated many new and unique developments to increase the performance envelope and functionality of the product.

In all, there are 15 displacements over 8 frame sizes with pressure capabilities to 15 bar to provide the ability to more closely meet specific application requirements.



EHEDG and Hygienic Applications

The pump conforms to all the relevant EHEDG cleanliness requirements and in the critical area of the mechanical seal, exceeds the design criteria to make the Steri-Lobe one of the cleanest standard construction pumps available.

The standard internal surface finish is 0.6 µRa, 25% better than most other manufacturers which can be further improved by electro-polishing and passivating for those applications where enhanced surface finish is required. The gear case is also stainless steel¹, improving cleanliness and corrosion resistance while adding to the aesthetic qualities of the pump. These can be polished to a mirror finish if required.

Rotors

Both Bi-wing¹ and Multi-Lobe rotors are available with clearances to 150°C making them suitable for all CIP and SIP conditions. As standard the rotors are manufactured from 316L stainless steel with optional W808 high nickel alloy available. This alloy is especially suited to low viscosity / high pressure applications, or where there is the potential for short term over pressure situations. Closer tolerance stainless steel 316L rotors are also available for low viscosity / high efficiency applications if necessary. (Ultra filtration for example)

Relief Valves

All pumps except the SLHS pump may be fitted with front cover relief valves to protect the pump and seals from over-pressure situations. The spring operated piston type valve is supplied with a security bonnet to prevent operator interference. Valves may also be specified with a hand-wheel for manual CIP opening or pneumatic operation for automatic CIP systems.



Pump Heating and Cooling

All pumps may be fitted with front cover and rotor case jackets when required. Jackets are designed to maintain the liquid at pumping temperature

Sealing Options

The pumps are designed with DIN 24960 L1K seal envelopes allowing proprietary seals to be fitted, particularly useful in applications where a site standard seal supplier is specified.

As standard the Steri-Lobe is fitted with a class 1 hygienic mechanical seal¹. The following constructions are available:

- Single Mechanical (Standard)
- Single Mechanical with low pressure flush
- Double Mechanical seal

Seal Faces and elastomers:
Silicon Carbide / Carbon (Standard)
Silicon Carbide / Silicon Carbide

- FDA EPDM
- FDA Viton®
- Perfluoroelastomer

Alternatively, there is a simple single 'O' ring seal available¹. This low cost option is available in FDA EPDM or Viton and is suitable for lubricating liquids. This option is especially suited to strip clean operations.

Universal Mounting

The SteriLobe range has cast stainless steel bolt on feet¹ which offer stable and robust support to the pump with the advantage of corrosion resistance. This enables the pumps to be mounted with shafts in the upper or lower position and for ports to be aligned horizontally or vertically without the need for skilled intervention.



Steri-Lobe Single Mechanical Seal



Steri-Lobe Single Flushed Mechanical Seal



Steri-Lobe Double Mechanical Seal

SteriLobe

Technical Data



Model	Litres / rev	Max Pressure	Port Dia.	Max Speed
SLAS	0.039	15	19	1400
SLAL	0.059	10	25	1400
SLBS	0.081	15	25	1200
SLBL	0.122	10	38	1200
SLCS	0.169	15	38	1200
SLCL	0.254	10	50	1200
SLDS	0.352	15	38	1000
SLDL	0.528	10	50	1000
SLES	0.732	15	50	800
SLEL	1.099	10	76	800
SLFS	1.524	15	76	600
SLFL	2.286	10	101	600
SLGS	3.170	15	101	600
SLGL	4.754	10	152	600
SLHS	6.400	15	152	600

CAPACITY: 230 m³/hr
 DIFF. PRESSURE: 15bar+
 VISCOSITY: To 1,000,000 cP
 TEMPERATURE: To 150°C

TYPICAL APPLICATIONS:

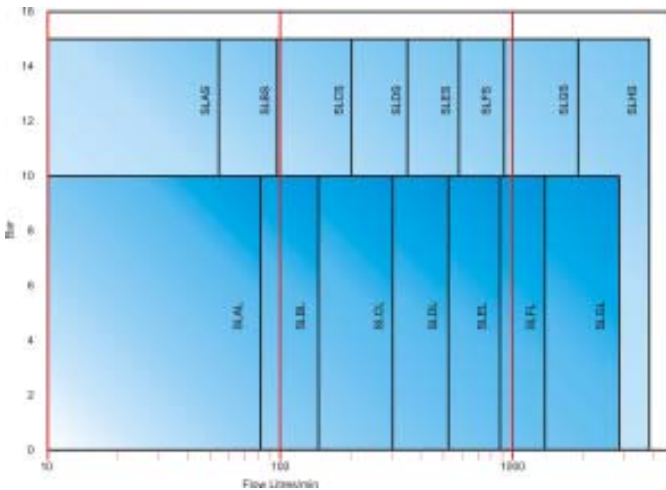
<i>Lotions</i>
<i>Alcohol</i>
<i>Baby food</i>
<i>Beans</i>
<i>Blood</i>
<i>Butter</i>
<i>Lotions</i>
<i>Margarine</i>
<i>Marmalade</i>
<i>Mayonnaise</i>
<i>Milk</i>
<i>Mustard</i>

<i>Chemicals</i>
<i>Chocolate</i>
<i>Coco Butter</i>
<i>Coconut oil</i>
<i>Curd</i>
<i>Penicillin</i>
<i>Resins</i>
<i>Sauces</i>
<i>Shampoo</i>
<i>Soap</i>

<i>Detergents</i>
<i>Dough</i>
<i>Dressings</i>
<i>Emulsions</i>
<i>Explosives</i>
<i>Flavourings</i>
<i>Soft drinks</i>
<i>Solvents</i>
<i>Stews</i>
<i>Sugar solution</i>
<i>Sulphate soap</i>
<i>Syrup</i>

<i>Glucose</i>
<i>Glues</i>
<i>Glycerine</i>
<i>Ground meats</i>
<i>Hand creams</i>
<i>Jam</i>
<i>Juice</i>
<i>Ketchup</i>
<i>Tall oil</i>
<i>Toffee</i>
<i>Tomato paste</i>
<i>U.F. Products</i>
<i>Whey</i>
<i>Wine</i>
<i>Yeast</i>
<i>Yoghurt</i>

Outline Performance - Flow/Pressure



From the manufacturers of the On-Line, Classic, AccuLobe, Steri-Lobe, SQ and RTP Pump



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