

An Original Quality Product from

wright flow
TECHNOLOGIES

Sterilobe®

Gentle, Low Shear Pumping Action with In-Line Cleanability



Capacity to 230 M³/Hr (1014 USGPM)

Pressure to 15 Bar (215 PSI)

Viscosity to 110,000 cPs (to 500,000 SSU)

Temperature -20°C to +150°C (-4°F to + 300°F)



TYPICAL APPLICATIONS

Pharmaceuticals, Bio-Tech, Personal Care Products, Food, Dairy, Beverage,
Chemical & Special Industrial

SteriLobe - the new benchmark

Product Features:

- EHEDG certified for CIP cleanability, which means that the SteriLobe can be used under stringent sanitary conditions
- Generous seal access facilitates simple front loading and removal of all seal variations without the need to dismantle the pump head, saving time and money when routine maintenance is required,
- Cover joint profile improves the hygiene characteristics and cleaning efficiency of the pump.
- Enhanced rotor case geometry enables self draining of the pump without loss of efficiency, saving product and again improving cleaning capabilities.
- Stainless steel gear case and improved bearing housing finish provide a clean and corrosion resistant finish, essential in a clean process environment.
- Semi fluid grease charged gear case means no routine maintenance such as checking of oil levels, especially important when a pump is installed in a hard to reach situation.
- A new generation of lobe pumps to further demonstrate WrightFlow Technologies innovative market leadership. In addition to setting the standards in our industry, we have incorporated many new and unique developments to increase the performance envelope and functionality of the product.
- In all, there are 17 displacements over 8 frame sizes with nominal discharge pressure capabilities to 15 Bar to provide the ability to more closely meet specific application requirements.

EHEDG and Sanitary/Hygienic Applications

The SteriLobe is certified to EHEDG cleanliness requirements and in the critical area of the mechanical seal, exceeds the design criteria to make the SteriLobe one of the cleanest standard construction pumps available.

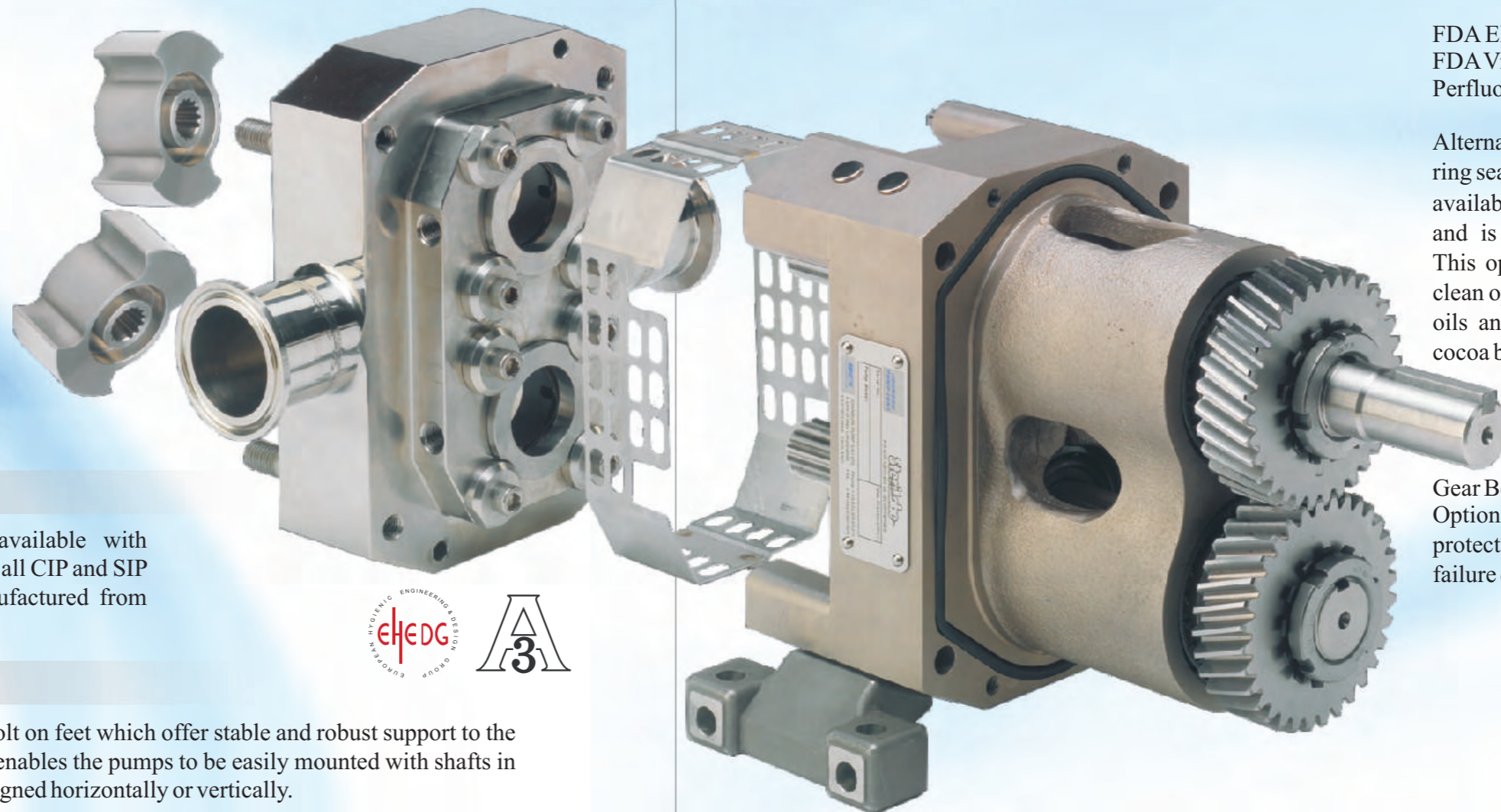
The standard internal surface finish is 0.6 µRa, better than most other manufacturers and can be further improved by electro-polishing and passivation for those applications where an enhanced surface finish is required.

Rotors:

Both bi-wing and four-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.

Universal Mounting:

The SteriLobe range has cast stainless steel bolt on feet which offer stable and robust support to the pump. Simple relocation of the standard feet enables the pumps to be easily mounted with shafts in the upper or lower position or for ports to be aligned horizontally or vertically.



for rotary lobe pumps.....

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.



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 SteriLobe is fitted with a mechanical seal. 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

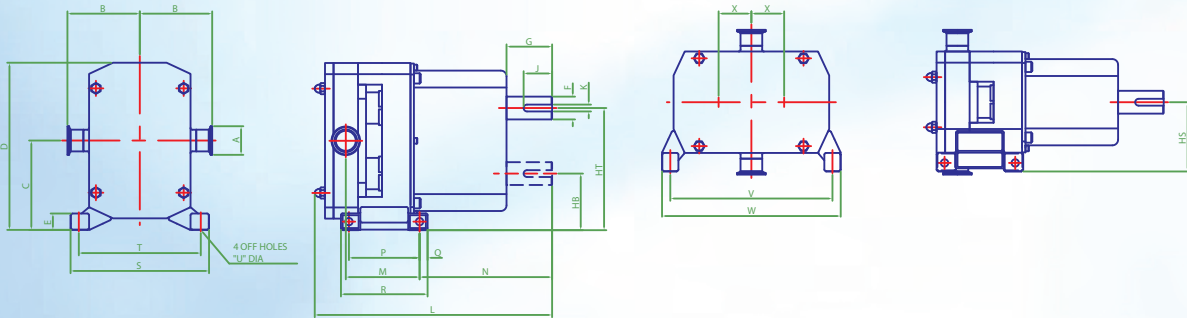
FDA EPDM (Standard)
FDA Viton®
Perfluoroelastomer

Alternatively, there is a simple single 'O' ring seal available. This low cost option is available in FDA EPDM or FDA Viton® and is suitable for lubricating liquids. This option is especially suited to strip clean operations. Typical applications are oils and semi solid fats, chocolate and cocoa butter.

Gear Box:
Optional gear box seal is designed to protect the lip seal eliminating the risk of failure due to water in gear box.

Dimensions diagram

Dimensions given are for guidance only and should not be used for installation purposes. Certified dimensions will be supplied on request.



Dimensions (all inches, except F, J and K)

SteriLobe Pump technical specifications

Model	A	B1	B2	B3	B4	B5	C	D	E	F (mm)	G	HB	H	HT
SLAS	0.75	2.72	3.27	N/A	3.82	3.82	3.44	6.22	0.87	14	1.00	2.38	2.93	4.55
SLAL	1.00	3.27												
SLBS	1.00	3.98	3.98	4.53	4.53	4.53	3.98	7.28	0.87	20	1.40	2.66	3.35	5.33
SLBL	1.50		4.84											
SLCS	1.50	4.21	5.08	4.76	4.76	4.76	5.08	9.17	1.18	24	1.81	3.41	4.00	6.75
SLCL	2.00					5.08								
SLDS	1.50	5.00	5.47	5.16	5.16	5.16	6.16	11.57	1.14	40	3.15	3.90	4.78	8.43
SLDL	2.00					5.47								
SLES	2.00	6.22	6.57	6.26	6.26	6.57	7.56	14.17	1.69	48	3.15	4.80	7.09	10.31
SLEL	3.00				6.57									
SLFS	3.00	6.81	8.07	7.36	7.68	7.87	8.50	16.10	1.69	50	3.15	5.35	7.52	11.65
SLFL	4.00	6.97	8.66											
SLGS	4.00	7.64	9.33	8.03	8.35	8.54	9.88	18.90	1.69	60	4.25	6.14	7.95	13.62
SLGL	6.00													
SLHS	The SLHS design does not conform to these drawings. Contact factory for SLHS dimensional drawing.													

Model	J (mm)	K (mm)	L	M	N	P	Q	R	S	T	U	V	W	X
SLAS	20	5	9.25	3.31	4.67	2.44	0.43	3.31	5.87	5.04	0.35	6.14	6.93	1.08
SLAL			9.61	3.39										
SLBS	35	6	11.81	3.35	6.85	2.44	0.43	3.31	6.69	5.87	0.35	7.17	7.95	1.34
SLBL			12.24	3.54										
SLCS	30	8	13.07	4.84	6.40	4.88	0.55	5.98	7.99	6.81	0.51	8.98	10.12	1.67
SLCL			13.62	5.16										
SLDS	50	12	16.42	5.10	9.15	4.88	0.55	5.98	9.57	8.43	0.51	11.20	12.34	2.26
SLDL			17.17	5.49										
SLES	60	14	19.45	6.10	10.85	6.69	0.63	7.95	14.17	12.60	0.71	13.94	15.12	2.76
SLEL			20.39	6.57										
SLFS	65	14	22.52	6.95	12.01	6.69	0.63	7.95	15.04	13.46	0.71	15.83	17.01	3.15
SLFL			23.86	7.54										
SLGS	90	18	29.21	8.31	16.50	6.69	0.63	7.95	15.94	14.37	0.71	18.58	19.76	3.74
SLGL			31.30	9.33										
SLHS	The SLHS design does not conform to these drawings. Contact factory for SLHS dimensional drawing.													

Port dimensions shown are for standard pump configuration, "B" dimension will be different for some port options.

Metric shaft couplings and key required.

Contact factory for dimensions on optional ports, including external NPT, ACME, rectangular flange and ANSI-compatible flange.

B1 applies for all threaded connections, except BSPT and NPT.

B2 applies for BSPT and NPT thread connections.

B3 applies for all flange connections except ASA150, BS4504 and ASA300.

B4 applies for ASA150 and BS4504 flange connections.

B5 applies for ASA300 flange connections.

Because we know about your products.....

Fresh Organic Soups....

To produce a fresh, organic vegetable soup needs care and even a small amount of love. At Wright Flow Technologies Ltd., we know how to handle particulates; we know how to handle florets of cauliflower and broccoli, whole beans and pulses, tomatoes and tofu, exactly to your requirements and, more importantly, your customers.



Personal Care Products....

Personal care products need a lot of personal care themselves. Many are very sensitive, some, like toothpastes are abrasive, others, like mascara are very, very thick and sticky. When we select a pump, we take personal care to ensure that it meets the needs of the customer.

Chocolate....

We know the importance of the gentle handling of finished chocolate, not to draw the temper, the requirements of low shear, and the need to maintain a constant temperature. Handled badly, the texture and taste of chocolate can easily change, chocolate needs a quality pump and a certain 'know-how'. Which fortunately, we have.



Dairy Cream....

Hygiene is one of the most important factors in the dairy industry, so is the knowledge of product handling. Dairy creams require different handling solutions according to the fat content and pumping temperature. At Wright Flow Technologies Ltd., we know about cream, so when we pump your cream, you end up with high quality clean cream with the fats firmly still in solution.

Pet Foods....

Feed for our animals require the same standard of care and hygiene as that for food for human consumption. We can produce pumps with special hardened internals to handle everything from the raw ingredients such as chicken viscera and fats, to the finished gravies and sauces.



Culinary Sauces....

We handle a wide variety of applications for all the major producers of culinary and cook-in sauces. Finished sauces with delicate particulates, curry sauces, condiment sauces such as spicy wholegrain mustard and horseradish, through to apple, mint, and cranberry sauces. Selecting the correct pump at the right speed with the correct rotors is most important otherwise particulates can be damaged, emulsions cracked and product quality reduced.

Pharmaceutical...

Most pharmaceutical applications require cleanliness, FDA conforming materials and full material traceability. At Wright Flow Technologies Ltd., we can meet these requirements. All our product contact components are in 316L (DIN1.4404) stainless steel, high standards of hygiene are assured with the SteriLobe Pump being EHEDG certified and having 3-A certification. So from inhalants to cough syrups, injectables to creams; we have a solution



Chemical and Industrial...

All our pumps have 316L (DIN1.4404) contact parts and are suitable for chemical applications. Should you need a more exotic alloy with superior chemical resistance.... we can deliver pumps in Hastelloy C22 and other materials, supply seals with Perfluoroelastomer elastomers and ATEX compliant pumps with drive sets for the most stringent and hazardous environments.

Technical Specifications

Pump Performance

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

Frame Size	Sterilobe Displacement			Port ø inches/mm	Max Speed	Max Capacity m³/hr	Max Pressure
	Litres	USG	Imp Gals				
SLAS	0.038	0.010	0.008	¾ / 19	1,400	3.2	15
SLAL	0.056	0.015	0.012	1.0 / 25	1,400	4.7	10
SLBS	0.078	0.021	0.017	1.0 / 25	1,200	5.6	15
SLBL	0.012	0.003	0.003	1½ / 38	1,200	0.8	10
SLCS	0.164	0.043	0.036	1½ / 38	1,200	11.8	15
SLCL	0.241	0.064	0.053	2.0 / 50	1,200	17.4	10
SLCX	0.350	0.092	0.077	1½ / 38	1,000	21.0	6
SLDS	0.335	0.089	0.074	1½ / 38	1,000	20.1	15
SLDL	0.512	0.135	0.113	2.0 / 50	1,000	30.7	10
SLES	0.710	0.188	0.156	2.0 / 50	800	34.1	15
SLEL	1.063	0.281	0.234	3.0 / 76	800	51.0	10
SLFS	1.478	0.390	0.325	3.0 / 76	600	53.2	15
SLFL	2.240	0.592	0.493	4.0 / 101	600	80.6	10
SLFX	2.980	0.787	0.656	4.0 / 101	600	107.3	6
SLGS	3.042	0.804	0.669	4.0 / 101	600	109.5	15
SLGL	4.567	1.207	1.005	6.0 / 152	600	164.4	10
SLHS	6.400	1.691	1.408	6.0 / 152	600	230.4	15

Wright Flow Technologies

Our products are used across the whole of the process industries in applications as diverse as paper & pulp production through to the extreme Sanitary/Hygiene end of the pharmaceutical industry on injectables and blood processing. We manufacture within our organisation rotary lobe, centrifugal, circumferential piston, air operated double diaphragm and dosing pumps, all manufactured and designed with hygiene, cleanliness, affordability and robustness in mind. These pumps coupled with our range of hygienic turbine and magnetic flow meters, our full range of sanitary valves and our powder mixing technology from Quadro, gives a complete package for the modern high-tech process industries of today.

Notes: ¹ Not available on model SLHS.
Viton® is a registered trademark of DuPont Performance Elastomers.



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