

ROTARY LOBE



# SteriLobe

Gentle, Low Shear Pumping Action  
with In-Line Cleanability



**wright flow**  
TECHNOLOGIES<sup>®</sup>

**Capacity** to 171 m<sup>3</sup>/hr / 753 USGPM

**Pressure** to 15 BAR / 218 PSI

**Viscosity** to 200,000 cSt / 910,000 SSU

**Temperature** to 150°C / 300°F

HYGIENIC PUMP SOLUTIONS

**IDEX**  
FLUID & METERING

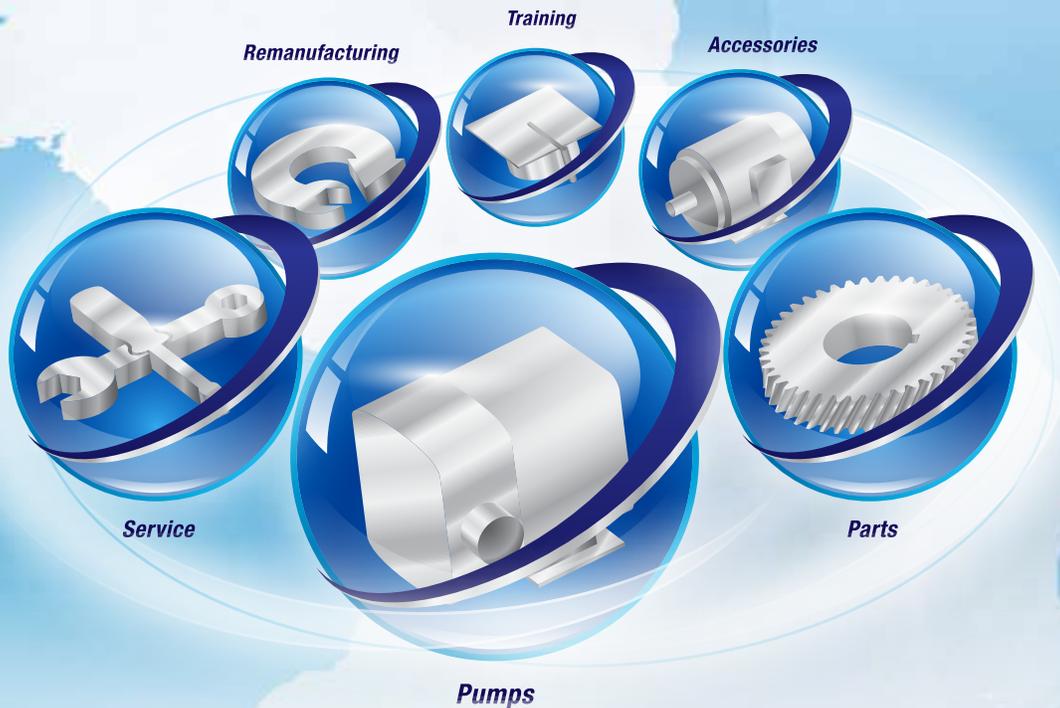
YOUR COMPLETE

# Hygienic Solutions Provider

- GLOBAL PRESENCE WITH LOCALIZED SERVICE
- BROADEST PD PUMP OFFERING IN THE INDUSTRY
- COMPLETE PARTNER FOR YOUR HYGIENIC PROCESS



Around the world, Wright Flow Technologies provides solutions for challenges in fluid handling. You can count on the reliability of Wright Flow hygienic positive displacement (PD) pumps. Matching the right pump with your fluid processing needs is easy with innovative, robust designs, cleanability & an extensive product offering.



**CHEMICAL**

Raw Ingredients, Chemical Transfer, Solvent Recovery



**PERSONAL CARE**

Skin Care Products, Toothpastes, Cosmetics, Shower & Shaving Liquids, Hair Care Products



**BEVERAGES**

Distillers & Vinters, Fruit & Vegetable Purees, Carbonated Drinks, Juices

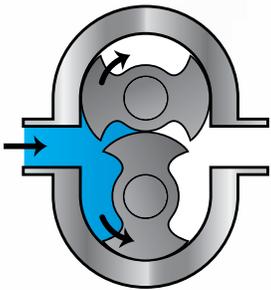


*Bi-Wing Rotors Standard*



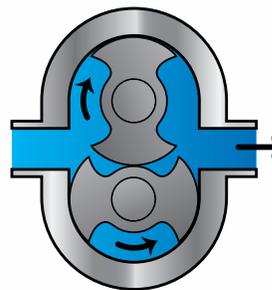
*Multi-lobe Rotors Optional*

## How it Works



The pumping action of the rotary lobe pump principle is generated by the contra-rotation of two pumping elements (rotors) within a chamber (rotorcase).

The rotors are located on shafts that in turn are held within a bearing housing mounted to the back of the rotorcase. The shaft assemblies are comprised of the shaft support bearings and the timing gears. The gears transfer the energy from the drive shaft to the driven shaft, synchronising the rotors such that they rotate without contact with each other.



As the rotors pass the suction port, the cavity increases creating a pressure decrease, which induces the pumped medium to flow into the rotorcase.

The pumped medium is carried around the rotorcase by the rotors to the discharge side of the pump. Here the cavity decreases and the pumped medium is discharged from the rotorcase.



**FOOD**

Baby Food, Edible Oils, Soft Fruits & Vegetables, Soups & Sauces, Egg, Fish, Meat, Poultry, Whey Proteins, Confectionary



**DAIRY**

Butter, Cheese, Cream, Milk, Yogurt, Yogurt Fruits



**PHARMACEUTICAL**

Medicinal Chemicals, Creams & Ointments, Syrups, Injectables, Ultra Filtration, Blood & Plasma Processing

# SteriLobe

Ideally suited for hygienic applications, the SteriLobe represents a significant advancement in the design of rotary lobe pumps. SteriLobe offers a breakthrough in modular, flexible design to ensure the appropriate configuration is provided for each application; ideal for pharmaceutical & other ultra hygienic applications.

## CLEANABILITY

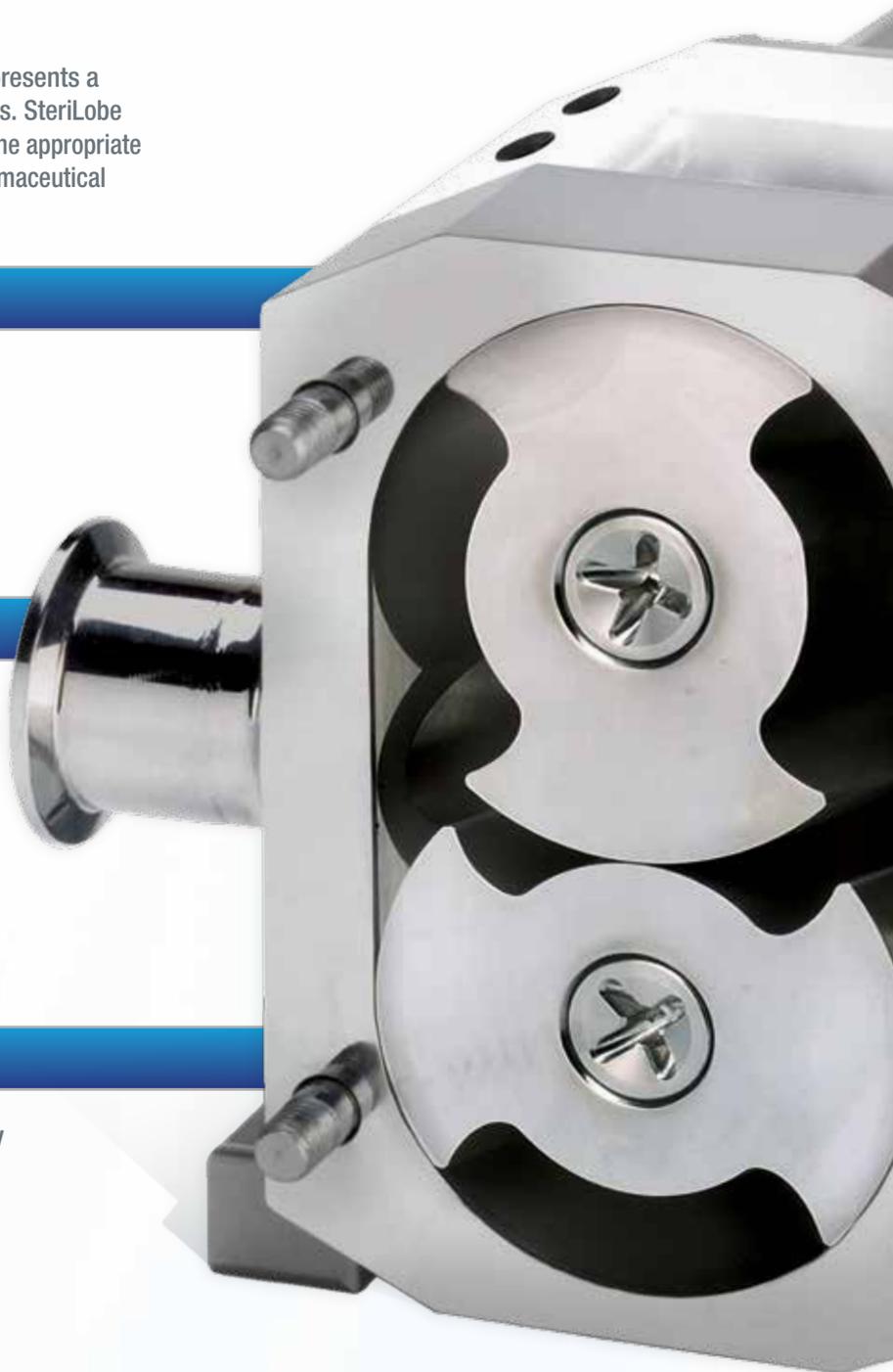
- Cover joint profile improves hygienic characteristics & self-draining capabilities
- Clean & corrosion resistant stainless gear cover & powder coated bearing housing

## EASE OF MAINTENANCE

- Front loading seals can be changed while the pump is still in-line
- Seal positioned for optimal lubrication, maximizing seal life
- Hassle free gearbox maintenance with sealed for life bearings

## PERFORMANCE

- Standard bi-wing rotors offer application flexibility & good solids handling capabilities
- Multi-lobe rotors reduce shear & pulsation effect - ideal for sensitive media
- Innovative cusps with reliefs allow for easier cleaning and self draining with improved efficiency



COMPLIANT WITH THE FOLLOWING STANDARDS





# Preventive Maintenance Kits

ENSURE TROUBLE-FREE OPERATION & SUPERIOR PERFORMANCE

## BENEFITS OF MAINTENANCE KITS:

- Everything you need in one place
- Reduce frequency of repairs
- Increase service life
- Increase uptime
- Save time & money
- Kits include exploded diagram & parts list



## BACK OF MAINTENANCE KIT:

**wright flow TECHNOLOGIES®** P/N: 12-BRG-KIT  
Description: SteriLobe SLB Bearing Kit

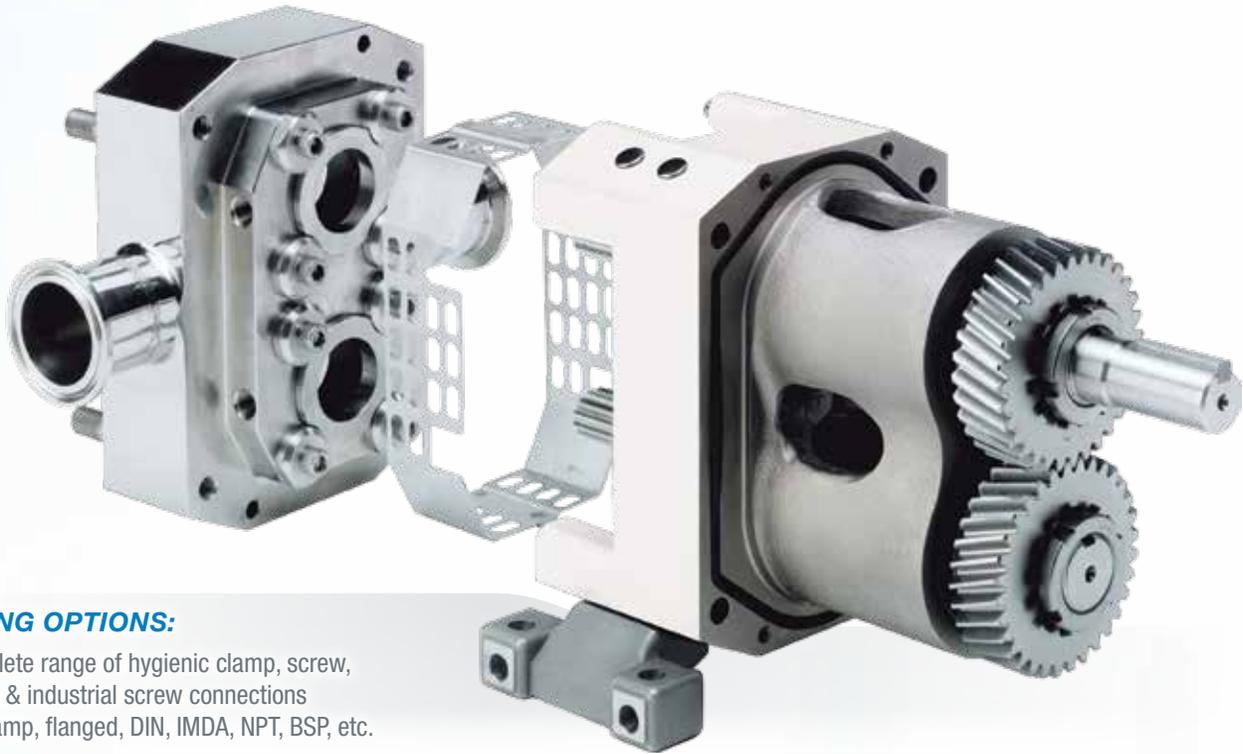
*List of Parts*

Ref	Part Number	Description	Qty
4.00	296-024-02	SHIM	1
4.00	296-7739-14	REAR LIP SEAL	1
5.04	824-7325-04	BEARING	2
5.04	104-7146-04	BEARING	2
5.05	103-0105-04	BEARING PRE-LOAD SPACER SLB	2
5.05	296-7746-04	KEY PIN/LOD FORMER	2
5.08	296-8024-04	WASHER TAB 21 DIA	2
5.09	296-0151-04	NUT LOCK SHAFT M24x1.5	2
5.10	296-7739-14	KEY GAUDES FORMER C	1
5.11	296-7739-14	FRONT LIP SEAL	2
5.12	104-0032-00	SHIM SET SLB CLEARANCE	2
5.13	104-0085-00	SHIM SET SLB BIG PRE-LOAD	2
5.14	104-0121-00	SHIM SET SLB TIMING	2

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www.wrightflowtechnologies.com

## REBUILD VS. REPLACE:

- Wright Flow kits are designed to save time & money, making preventive maintenance easier & more cost-effective
- Wright Flow pumps are designed & built to the highest standards, for long life & to be rebuilt instead of replaced when applicable
- Tool kits also available



## PORTING OPTIONS:

- Complete range of hygienic clamp, screw, flange & industrial screw connections
- Tri-clamp, flanged, DIN, IMDA, NPT, BSP, etc.

## SEAL OPTIONS:

- Single mechanical
- Single mechanical with flush or quench
- Double mechanical with flush

### Single Mechanical Seals

- Standard Seal Faces: C/SiC
- Standard O-rings and Cover Seals: EPDM/FDA
- Optional Faces: SiC/SiC, Optional O-rings and Cover Seals: FKM, Buna, Silicone, FFKM

### Double Mechanical Seals with Flush

- Seal Faces: C/SiC/SiC/C or SiC/SiC/SiC/C
- Standard O-rings and Cover Seals: EPDM/FDA
- Optional O-rings and Cover Seals: FKM, Buna, Silicone, FFKM

## ROTOR & CASING OPTIONS:

- 316L stainless steel pump casing with interior finished to Ra of 32µin (0.8µm).
- 316L stainless steel rotors
- 1.4435 low ferrite stainless steel optional
- Improved surface finishes & electropolishing optional

### Bi-Wing Rotors Standard

- No timing required
- Preferred for large solids such as fruit pieces, nut kernels, cheese curds or meats

### Multilobe Rotors Optional

- Provides reduced shear on shear sensitive fluids
- Improved performance on thin liquids resulting in less pulsation at higher pressures

## OPTIONAL COMPLIANCE CERTIFICATION DOCUMENTATION & PERFORMANCE TESTS

- Pump Performance
- General Compliance
- Media Contact Metallic Components
- Media Contact Elastomers
- Seal Face
- Surface Finish
- Pump Assembly Inspection
- Certified Documents
- ATEX & CE

**PERFORMANCE RANGE:**



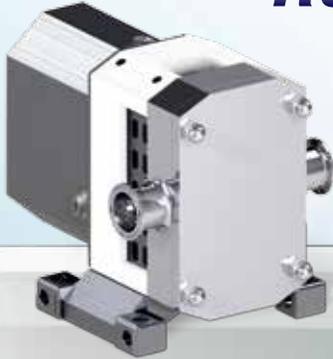
COMPLIANT WITH THE FOLLOWING STANDARDS



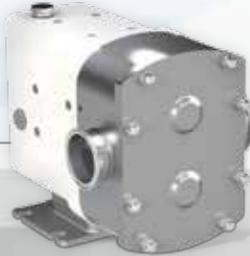
SteriLobe Model	Displacement		Max Pressure		Max Speed	Standard Ports		Max Capacity		Max Temperature	
	l/rev.	USG/rev.	BAR	PSI	RPM	mm	in.	m <sup>3</sup> /hr	USGPM	Deg. C	Deg. F
SLAS	0.039	0.0103	15	218	1400	19	.75	3.18	14	150	300
SLAL	0.059	0.0156	10	145	1400	25	1	5	22	150	300
SLBS	0.081	0.0214	15	218	1200	25	1	5.8	25.7	150	300
SLBL	0.122	0.0322	10	145	1200	38	1.5	8.8	38.7	150	300
SLCS	0.169	0.0446	15	218	1200	38	1.5	12.2	53.6	150	300
SLCL	0.254	0.0671	10	145	1200	50	2	18.3	80.5	150	300
SLDS	0.352	0.093	15	218	1000	38	1.5	20.5	93	150	300
SLDL	0.528	0.1395	10	145	1000	50	2	31.7	139.5	150	300
SLES	0.732	0.1934	15	218	800	50	2	35.1	154.7	150	300
SLEL	1.099	0.2903	10	145	800	76	3	52.8	232.3	150	300
SLFS	1.542	0.4026	15	218	600	76	3	54.8	241.5	150	300
SLFL	2.285	0.6036	10	145	600	101	4	82.3	362.2	150	300
SLGS	3.17	0.8374	15	218	600	101	4	114.1	502.5	150	300
SLGL	4.754	1.2559	10	145	600	152	6	171.1	753.5	150	300



## Rotary Lobe Pumps



SteriLobe



Revolution



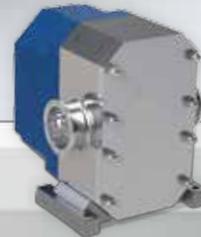
classic+  
MultiPump



CONCEPT  
SQ



AccuLobe



rtp

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