



Rotary Lobe Pumps



Stainless Steel Flow Control Equipment for the
Food, Beverage, Dairy, Cosmetics, Biotechnology,
Pharmaceutical and Electronics Processing Industries

Classic+™

The Classic+™ is a positive displacement rotary lobe pump designed using the latest innovative computer aided techniques and manufactured to meet today's stringent demands for high product quality, reliability, ease of maintenance, economy in purchase and low life time costs.

VERSITILITY AND SAFETY

For maximum flexibility, the feet of the pump may be removed and re-set to change the drive and port orientation to operate with the ports in a horizontal or a vertical position or to accommodate a top or bottom shaft drive. For heat sensitive applications, jackets may be fitted to the rotorcase and/or front cover to either heat or cool the pump head. To protect the pump, a spring operated relief valve may be fitted to the front cover. This can be set on site to protect the pump from over pressurisation and is available with air operation for automated CIP processes.

STAYS CLEANER

Hygienically designed, it combines a gentle pumping action for delicate liquids with soft solids as found in the food industry whilst robust, stainless steel construction is suited to the aggressive slurries and pastes of the chemical industry. For hygiene and corrosion resistance all product-wetted parts are manufactured from AISI 316L (DIN 1.4404) type stainless steel.

EASIER MAINTENANCE

The mechanical seals are of cartridge design with the rotary seat retention isolated from the pumped medium giving improved operation and easier assembly, setting and maintenance. Available in single, flushed or double seal configurations, all seal combinations use the same component wearing parts.



Superb operator and maintenance features, giving real operator benefits:

- Classic rotary lobe pump design
- Stainless steel 316L (DIN1.4404) contact parts
- Used throughout the whole of the process industry
- ATEX compliant
- Tri-lobe or multi-lobe rotor forms
- Flush rotor retention
- Hygienic flush front cover design
- Universal mounting with bolt on feet
- Easy to change shaft and port orientation
- Self draining when ports vertical.
- Low shear
- Externally mounted shaft seals
- Mechanical seals or simple 'O' ring seal
- Operates in either direction
- Standard 0.8µm Ra machine finish
- Enhanced surface finishes available
- Scratch resistant powder coated finish on CP10 – CP30
- Two part epoxy finish on CP40 & CP50
- Protected front oil seals, prevents ingress of water from pressure washers
- Simpler to maintain

SteriLobe®

The SteriLobe® series offers the ultimate in modular, flexible design to ensure that the appropriate feature set is provided for every application. The pump can be configured to handle nearly every unique pumping problem.

MOUNTING OPTIONS

The SteriLobe® range has cast stainless steel bolt-on feet 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.

ROTOR OPTIONS

316 SS Bi-Wing or Multi-Lobe rotor options offer clearances to 300°F (150°C), making them suitable for all CIP and SIP conditions. Closer tolerance rotors are also available for low viscosity / higher efficiency applications, and Multi-Lobe rotors are also available in non-galling Alloy 808.

SEALING OPTIONS

Hygienic mechanical seals

These hygienic seals are available:

- Single mechanical (standard)
- Single mechanical with low pressure quench
- Double mechanical

Seal Faces and elastomers:

- Silicon Carbide / Carbon (Standard)
- Silicon Carbide / Silicon Carbide
- FDA EPDM
- FDA Viton®
- Perfluorelastomer

O-RING SHAFT SEALS

Single O-ring seals in FDA EPDM, FDA Viton® or Perfluorelastomer provide a simple, cost effective solution for lubricating liquids. Running on hard-coated shaft sleeves, they are especially suitable for C.O.P. (strip clean) applications.



INDUSTRIAL MECHANICAL SEALS

A DIN 94960 L1K seal chamber allows use of standard metric seals from many manufacturers, which is especially useful in applications where a site-standard seal supplier is specified.

PORTING OPTIONS

Port options include sanitary clamp, ACME, rectangular flange, ANSI-compatible flange and external NPT.

PUMP HEATING AND COOLING OPTIONS

All pumps may be fitted with rotor case and front cover heating jackets when required (except front cover jackets not available with integral relief valves).

RELIEF VALVE OPTIONS

All pumps except the SLHS pump may be fitted with spring operated piston type front cover relief valves to protect the pump and seals from over-pressure situations. Valves may also be specified with a handwheel for manual CIP opening or pneumatic operation for automatic CIP systems.

AccuLobe®

The AccuLobe® is a sanitary lobe pump designed to provide superior metering accuracy and repeatability, especially for viscous or shear-sensitive fluids. Its multilobe design allows precise volumetric dosing for filling and packaging, lab and pilot plant, or manufacturing applications as well as general fluid transfer where low flow rates (0.5-9.2 gpm / 2-35 lpm) and medium pressures (0-175 psi / 0-12 bar) are required.

Five-lobe, 20 cc/rev. displacement rotors combine superior metering repeatability with reduced pulsation and quiet operation. Bi-wing rotors optional.

Rotor case geometry maintains volumetric efficiency, while chamfered cusps around the ports enable selfdraining for enhanced CIP/SIP.

Front-loading seals provide ease of maintenance, with flush rotor retainers for enhanced CIP/SIP.

Unique one-piece rotor case and gear case provides superior concentricity, contributing to longer seal and bearing life, in a smaller footprint.

Noncontacting lobes may be run dry with seal flush. Reversible direction of flow allows use of one pump for filling or draining.



SEALING

Standard: Single mechanical seal, SiC faces, FDA EPDM elastomers

Options: Single mechanical seal, SiC, FDA Viton®

Single mechanical seal mounted for flush/quench, FDA EPDM or FDA Viton

Single O-Ring Seals - FDA Viton

MOUNTING

Standard: Foot mount

Options: Flange (bulkhead) mount

Drop-in face-mount flange interchangeable with common pumps

NEMA 143/145TC motor mount with integral 3:1 gear reduction

IEC Frame 80 motor mount with integral 3:1 gear reduction

PORTING

Standard: 3/4" sanitary clamp connections (5/8" bore) with vertical ports

Options: 3/4" sanitary clamp (5/8" bore), horizontal ports

1/2" sanitary clamp (3/8" bore), vertical or horizontal

3/4" weld neck (5/8" bore), vertical or horizontal

1/2" weld neck (3/8" bore), vertical or horizontal

Top Line Process Equipment

Our Name Says It All

Top Line Product Line

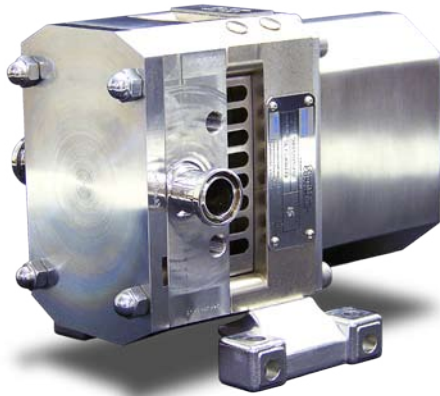
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