



Jabsco Motorised Lobe and FIP Pumps

THE HP (HY~LINE+) AND UL (ULTRA~LINE) SERIES LOBE AND 28 SERIES FLEXIBLE
IMPELLER HYGIENIC PUMPS



a xylem brand

Super hygienic positive displacement Lobe pump

Jabsco's latest rotary positive displacement pump incorporates the very latest in hygienic design concepts in order to fulfill the ever increasing customer demands for improved cleanability, hygiene and sterilize ability. The 316 Stainless Steel design is built upon Jabsco's 40 year experience of producing and supplying their rotary lobe pumps to the world's most demanding markets.

Motorised Lobe pumps next step in flexibility and value



Design Features

Most Stringent Hygienic Standards

Flush rotor fixing screws are sealed to prevent product ingress. Vertically mounted ports allow for full drainability during SIP and shaft seals set up front where the pumping action is! Fully conforming to 3A 02-10 Hygienic Standards and utilizing materials which meet FDA requirements. Versions are available that have been tested and approved to the EHEDG (European Hygienic Equipment Design Group), CIP and SIP protocols and USDA, 3A certification.

Low Maintenance Costs

Front loaded single shaft seals are fully accessible from the front of the pump without disturbing the process pipework. Simple bearing assemblies easily pre-set using automotive technology. Bi-wing scimitar rotors require no timing adjustments. Even the pump casing is removable without the need to drain or otherwise disturb the gearbox assembly.

High Volumetric Efficiency

The bi-wing scimitar rotors incorporate the low viscosity efficiency associated with circumferential piston pumps with the viscous product handling capability of tri-lobe and bi-lobe rotor pumps at an affordable price.

Rugged Design

Hy~Line+ design utilizes large shaft diameters mounted in high specification taper roller bearings, fitted into an extremely rigid central pillar made from a high grade alloy. This is all enclosed in an oil filled housing made from the same alloy.



Combined strengths and experience on one key platform.

- Jabsco lobe pumps offer high flow, high pressure capabilities from a positive displacement non-contacting rotary lobe pump package
- Applications from food and dairy processing, production of beverage and confectionery to chemical, pharmaceutical and biotechnology industries as well as manufacture of personal care products, soap and detergents
- Jabsco lobe pumps can be found decanting, transferring, filling, spraying, dosing a wide range of fluids in many varied environments
- 316L wetted part construction is supported with a range of sealing principles already in popular use
- Seal choices include packed gland, single and double mechanical seals
- HP & UL available in optional fully Stainless Steel construction

Hy-Line+ (HP Series)

- Hy-Line+ (HP Series) achieves discharge pressures up to 15bar with flows up to 2200 litres per minute
- The 3A approved Hy-Line+ design (HP Series) has all five size from the compact 3 size to the largest 7 size
- Hy-Line+ (HP Series) are available with either Bi-wing Scimitar or Tri-lobe rotors

Ultra-Line (UL Series)

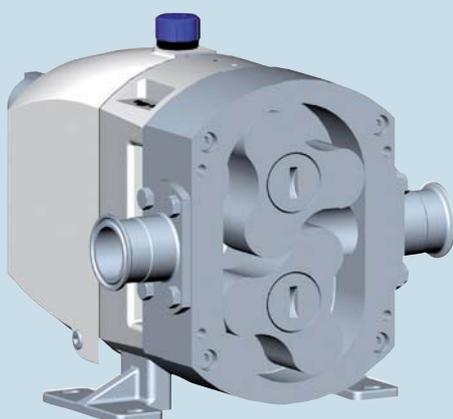
- Ultra-Line (UL Series) achieves discharge pressures up to 15bar with flows up to 684 litres per minute
- The 3A and EHEDG approved Ultra-Line design (UL series) employs size 4 to 6
- Ultra-Line (UL Series) incorporates Bi-wing Scimitar rotors

Modular procurement brings flexibility

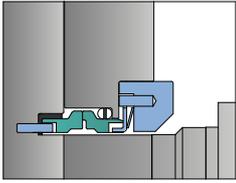
Modularity is a key feature to both the Hy-Line+ and Ultra-line series. With today's market being driven by lead time, flexibility will allow our supply chain to reduce this factor

The HP and UL series lobe pumps are offered in three key modules:

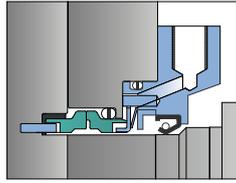
- Vertical or horizontal foot kit
- Bolt on port kits
- The pump module



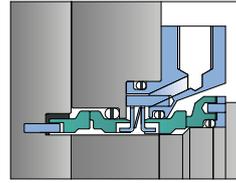
Mechanical seal details



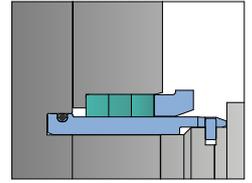
Single mechanical seal
Standard offering for compatible fluids



Single mechanical seal with flush
For fluids with potential to leave a residue; ATEX applications



Double mechanical seal with flush
For fluids that must not escape to atmosphere and/or abrasive products



Packed gland seal
Low cost alternative to handle fluids with potential to leave residue

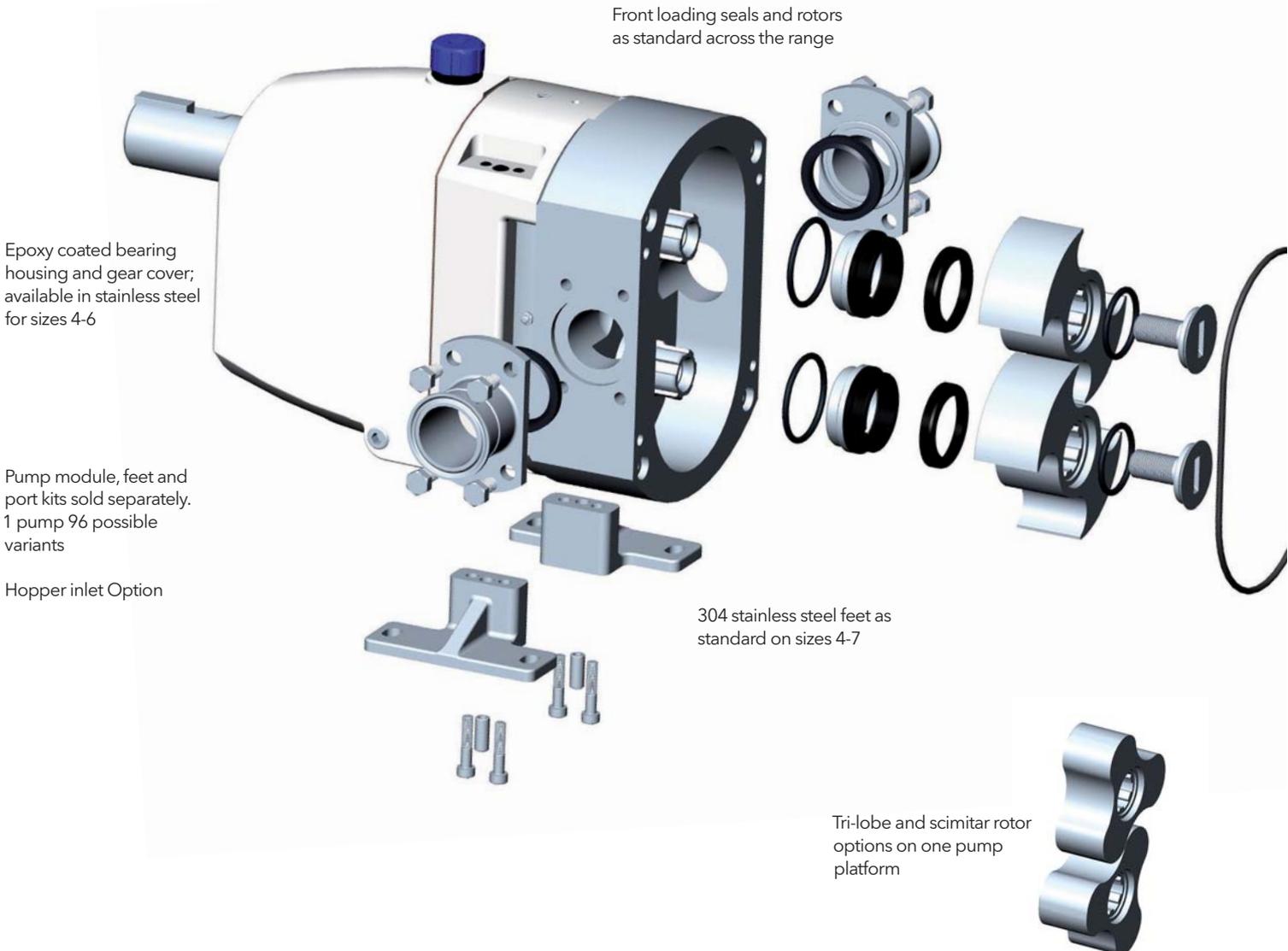
Materials of construction

316L wetted parts with epoxy coated aluminium gear cover; choice of seals including C/SS, SiC/SiC, single or double with flush; 304 stainless steel mounting feet with synthetic elastomer sealing joints available in Nitrile, EPDM, Viton and PTFE.

Nitrile, Viton and PTFE Wetted elastomers to FDA, 3A and EN1935:2004; EPDM to USP Class VI

Connections options

Tri-Clamp
BSP
IDF
RJT
3A ACME
DIN 11851
SMS
NPT



Front loading seals and rotors as standard across the range

Epoxy coated bearing housing and gear cover; available in stainless steel for sizes 4-6

Pump module, feet and port kits sold separately. 1 pump 96 possible variants

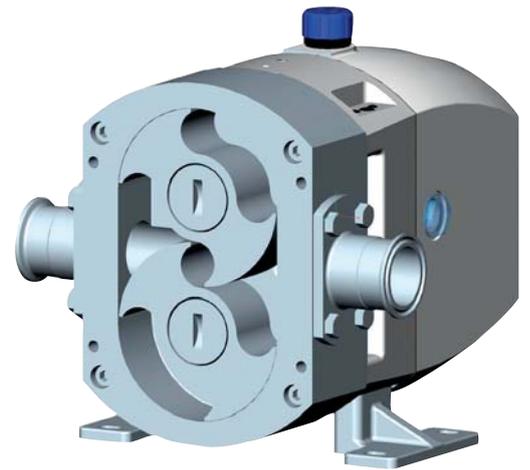
Hopper inlet Option

304 stainless steel feet as standard on sizes 4-7

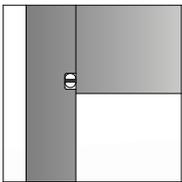
Tri-lobe and scimitar rotor options on one pump platform

Product performance overview

Pump Size	Max Speed	Max Pressure	Flow 100RPM
42	1000 RPM	15bar	12.3 L/min
44	1000 RPM	8bar	20.4 L/min
52	1000 RPM	15bar	26.5 L/min
54	1000 RPM	8bar	45.5 L/min
62	720 RPM	15bar	64 L/min
64	720 RPM	8bar	95 L/min
72	680 RPM	15bar	123 L/min
74	600 RPM	8bar	205 L/min
76	600 RPM	5bar	301L/min

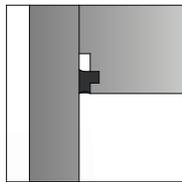


Hygienic end cover details



Hygienic end cover joint

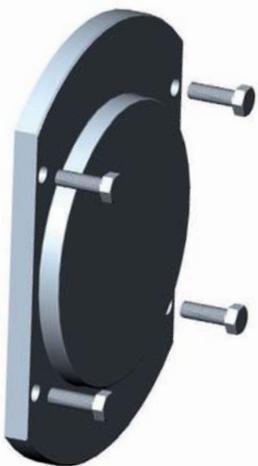
3A approved sanitary design HP pumps



EHEDG Ultra-hygienic end cover joint

EHEDG design UL pumps

HP series end cover supports relief valves and temperature control jacket



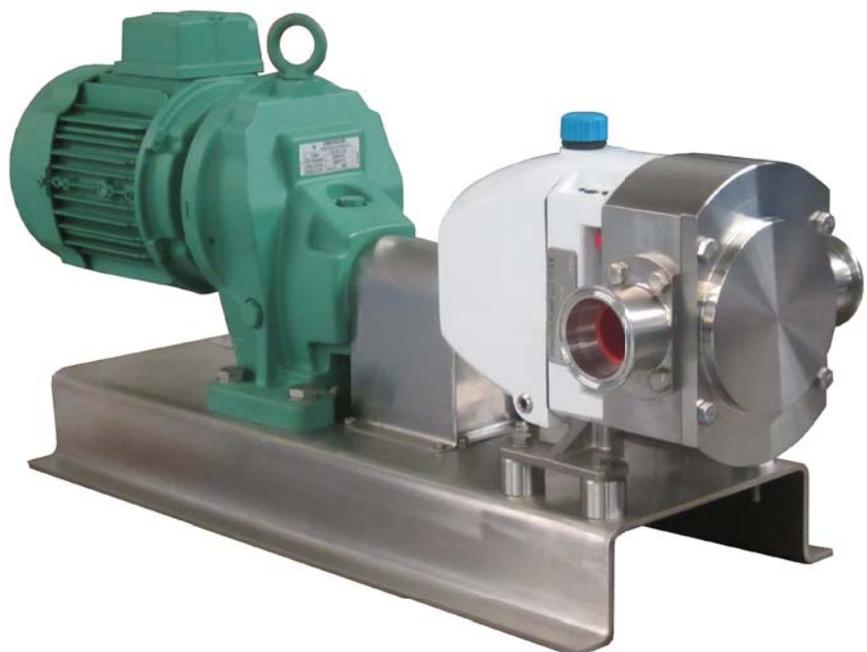
Package construction

Gearbox or Motor Drives

The motorised Lobe Pump range can be fitted with either Leroy Somer geared electric motors or WEG motors depending on application requirements. Other manufacturers motors available on request.

Baseplate, Guarding & Spacers

Baseplates, Guarding and Alignment spacers are constructed using 304 Stainless Steel as standard.



Motorised Flexible Impeller Pump Packages

For many in the food industry, pumping delicate, viscous fluids and products that contain solids in suspension has been a daily challenge. There are many types of pumps on the market; however the effects on product quality can be disastrous if the wrong type of pump is installed in the process. The secret to successfully handling these important products comes from a technology which was first introduced by Jabsco over 60 years ago. The Flexible Impeller Pump (FIP) offers significant benefits when compared to other pump types for the pumping of viscous foodstuffs and other fluids that contain fragile solids.

Mounted at any angle and pump in either direction with equal efficiency

Design Features

Installation benefits

Jabsco flexible impeller pumps offer a high priming ability which allows the pump to be installed in the most convenient position making plant installation easier. This means they can be mounted off the floor where there are safety issues to be considered, such as the possibility of tripping over the pump or pipe work or risk of damage by passing delivery vehicles. Another consideration is the configuration of the liquid reservoir itself. If this is owned by an external supplier, such as a drum or similar bulk delivery container, it might not have the appropriate bottom-outlet flange or valve. Some vessels such as rubber-lined tanks do not lend themselves to a bottom-outlet; here the FIP can be connected by a simple flexible hose through the top opening. Alternatively, the tank may itself be mounted at or even below floor level, precluding a flooded suction.

Low Maintenance Costs

Thoughtful positioning of a pump greatly simplifies maintenance. A Jabsco flexible impeller pump mounted above the liquid level can be purged so the maintenance technician will not be presented with a pipe and pump full of fluid that could spill even when the end cover is removed. More importantly, the fact that there is only one moving part, the flexible impeller means that the pumps are very easy to strip down and maintain, so process down time is minimal.





Cleanability

Jasbco pumps can be easily stripped down for cleaning and hygienic versions can readily withstand cleaning in place (CIP) procedures. Their design ensures cleaning fluids reach all areas of the pump during this process and have passed the latest 02-10 standards of the 3A Sanitary Standards Administrative Council in the USA.

Rugged Design

316 SS wetted parts are standard on the Jasbco FIP for food processing pumps, coupled with high grade flexible impellers, mechanical seals, and extremely robust drive systems to ensure the longevity of these pumps in the factory environment. Jasbco pumps are regarded by industry as the best of their type in the market.



Features & Benefits

Self-Priming:

- Self-Priming instantly, with dry suction
- Lifts up to 3 metres when dry
- Lift up to 8 metres when wetted
- Permits cleaner, safer installation because no foot valve is required

Simplicity:

- Only one moving part in the pump end
- Tough wear resistant flexible impeller
- No metal to metal pumping action
- No gears to jam

More capacity:

- Flexible impeller pumps, in general, require less space because they deliver greater flow for weight, size and price than other types of pump



VAN DER ENDE GROEP

Jabsco

Scheldestraat 4
5347 JD Oss
The Netherlands

Telephone +31 (0)412 63 13 78
E-mail jabsco@vanderendegroep.nl
Website www.vanderendegroep.nl

Headoffice

Aartsdijkweg 23
2676 LE Maasdijk
The Netherlands

+31 (0)174 51 50 50
jabsco@vanderendegroep.nl
www.vanderendegroep.nl