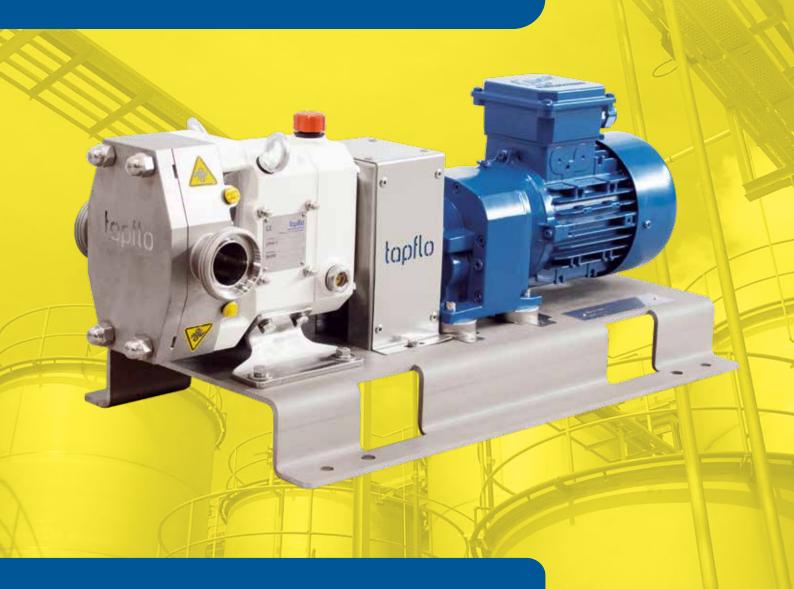


LPX TAPFLO LOBE PUMPS

2023 |

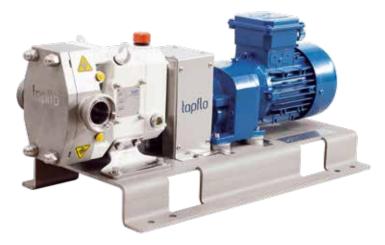


Lobe Pumps

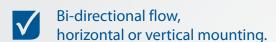
reliable performance with low noise, robust and gentle fluid transfer

Rotary lobe pumps are positive displacement pumps that utilize two synchronized lobes to move fluid. The lobes are propelled independently via their own shafts, ensuring they don't touch each other or other components of the pump.

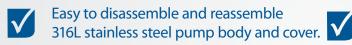
This unique construction makes lobe pumps suitable for transferring dense and viscous fluids with fragile structures, and they offer dependable operation with low noise levels and gentle fluid transfer. Additionally, they are optimized for energy efficiency.



Features & Benefits

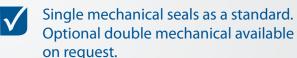










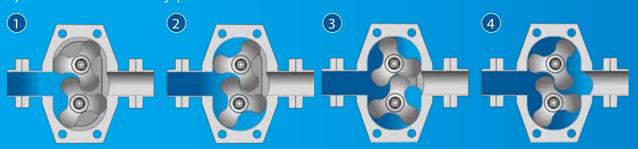




Pumps are energy efficient and easily cleaned, maintained and repaired.

Working principle

The working principle of a lobe pump is to displace a certain amount of liquid from the suction area, by rotating the working elements (lobes), to the discharge area. The lobes are mounted on shafts, which are seated on bearings in an external synchronizer. Shafts equipped with gears, located inside the synchronizer, transfer the drive from the drive shaft to the intermediate shaft. The lobes are synchronized in such a way that they do not contact each other during operation.



As the lobes rotate, they increase the volume of the space between them, causing a pressure drop on the suction port side (fig. 1). This causes fluid to flow into the pump body. The pumped liquid is transported inside the casing (fig. 2 and fig. 3) to the discharge side of the pump (fig. 4). When the volume of the space between the lobes decreases, it causes an increase in pressure on the discharge side, and consequently the liquid is pushed out of the pump body.

LPX Tapflo Lobe Pumps

- >> 8 pump sizes available
- >> Capacity up to 82 m³/h and maximum pressure of 10 bar
- No internal rotor contact
- Pumps with flushed double mechanical seals can run dry intermittently
- Service kits available for rapid replacement of routine service items







EHEDG compliant

Certificates may vary depending on material execution of particular product.

Technical data

Model	Displacement [litre/rev]	Nominal connection size	Differential pressure rating [bar]	Maximum pump speed [RPM]	Input shaft diameter [mm]	Maximum torque [Nm]	Maximum capacity [l/min]
LPX25-1	0.04	25	10	1200	19	108	48
LPX25-2	0.10	25	10	900	19	108	90
LPX40-1	0.14	40	10	900	19	108	125
LPX40-2	0.23	40	10	900	19	108	208
LPX50-1	0.30	50	10	900	19	108	268
LPX50-2	0.67	50	10	700	38	400	469
LPX80-1	0.94	80	10	700	38	400	660
LPX100-1	2.29	100	10	600	55	1200	1371

Wide range of applications

Industries:

- bakery
- beverage
- canning
- confectionery
- cosmetics
- dairy
- chocolate
- meat packing
- pharmaceutical
- chemical

Applications:

batters, flavours, frostings, fruit fillings, fats & oils, sweeteners, yeast slurry

beer, wort, yeast, soft drinks, fruit concentrates, fruit drinks

baby foods, soups, stews, tomato paste, fruit puree, vegetables, diced, slurries, puddings, jams, jellies, salad dressings, mayonnaise

syrups, cream fillings, chocolate

face creams & lotions, hair styling gels & liquids, essential oils, dyes & alcohols

cream, milk, cheese curd & whey, cottage cheese, yoghurt

cocoa butter, condensed milk, lecithin, finished chocolate, emulsifiers, sorbitol, aromas, marmalades, toffee, glucose syrups

meat emulsions, ground meats, pet foods, animal fats

pill pastes, syrups, extracts, emulsions, slurries

solvents, fuels, oils & lubricants, paints, resins & polymers, soaps











Performance and long life through



Heavy-duty tapered roller bearings



316L stainless lobes, body and cover



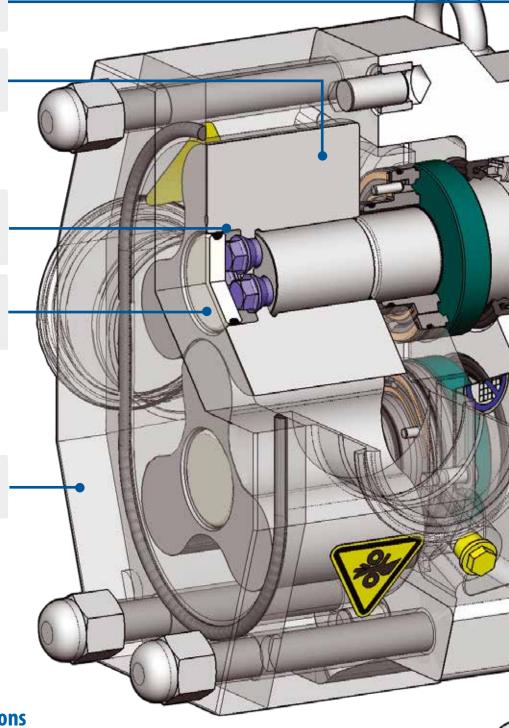
Unique rotor attachment combines accurate rotor positioning and ease of service



Rotor attachment sealed from product zone



Flat cover for easy cleaning



Options and special executions



SINGLE MECHANICAL SEAL

Silicon carbide vs. silicon carbide provides long life and protection against abrasive



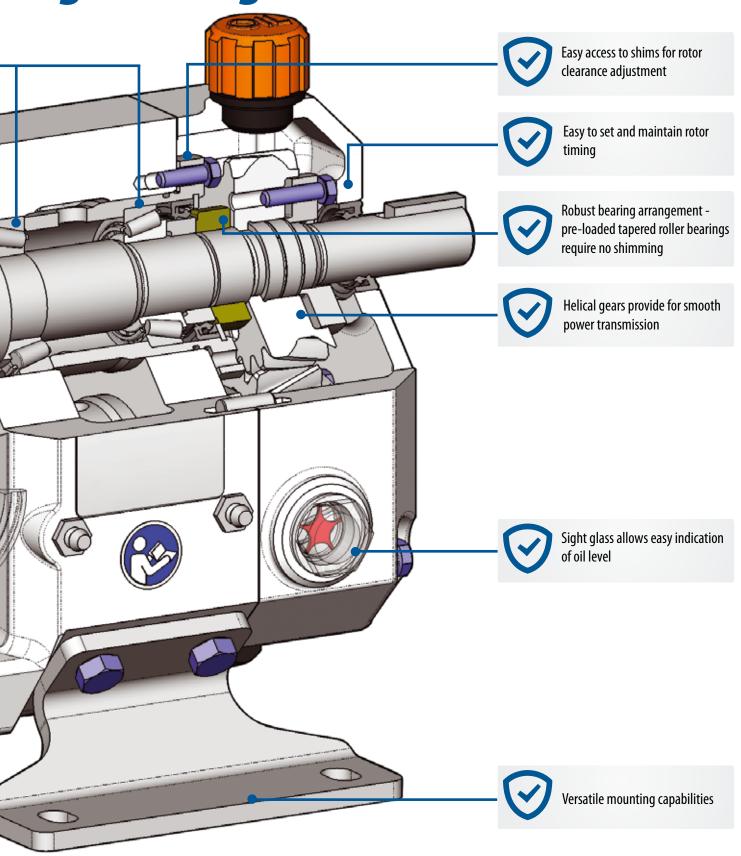
DOUBLE CONCENTRIC MECHANICAL SEAL

Used with flushing fluid to cool, lubricate, and rinse away residue. Best arrangement for severe service.

Elastomer choice for O-rings:

- Fluoroelastomer (FKM) FDA standard
- EPDM FDA optionally

engineering



Application examples



Pumped liquid - SLES 70%; 3 bar; 6 m³/h **Pump** - LPX50-2



Pumped liquid - glucose Syrup 80 °Bx **Pump** - LPX50-1 with heated cover and double mechanical seal



Pumped liquid - cookie fillings, confectionery products **Pump** - LPX80-1 with heated cover, installed vertically to save space



Pumped liquid - toothpaste, body scrubs, lotions creams **Pump** - LPX50-1 delivering 2 m³/h at 5 bar differential pressure



Pumped liquid - transporting syrups, chocolate, etc. **Pump** - LPX80-1 installed on a truck cistern

Accessories



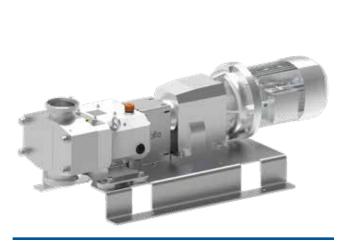
Mobile tailor made solutions for special customer needs



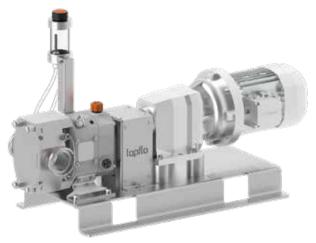
Standard Tapflo trolleys with fast delivery time and **IP66 frequency inverters**



Tank using thermosyphon effect on heavy duty applications



Vertical inlet/outlet set up for pump drainability and easier flow into the suction connection



AISI 304L stainless steel baseplates as a standard for all pump sizes



Lubrication tank for media crystallising on contact with air



IP66 inverters available in stock with fast delivery times



Covers with **heating jackets**

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We began our journey in 1980 in Kungälv, a small town on the Swedish west coast, as a family company with an ambition to one day become a global player on the pump market.

Since the foundation, we have taken pride in delivering a wealth of knowledge and passion for pumps to the industry, whilst supplying a wide range of premium products for various industrial applications.

Over the years, the company has developed into a global Tapflo Group with branches and distributors present in nearly every region of the world.

One thing did not change - we are still a family company.

Tapflo products and services are available worldwide.

Tapflo is represented by own Tapflo Group Companies and carefully selected distributors assuring highest Tapflo service quality for our customers' convenience.

AUSTRALIA | AUSTRIA | AZERBAIJAN | BAHRAIN | BELGIUM | BOSNIA | BRAZIL | BULGARIA | CANADA | CHILE | CHINA | COLOMBIA | CROATIA |
CZECH REPUBLIC | DENMARK | ECUADOR | EGYPT | ESTONIA | FINLAND | FRANCE | GREECE | GEORGIA | GERMANY | HONG-KONG | HUNGARY |
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