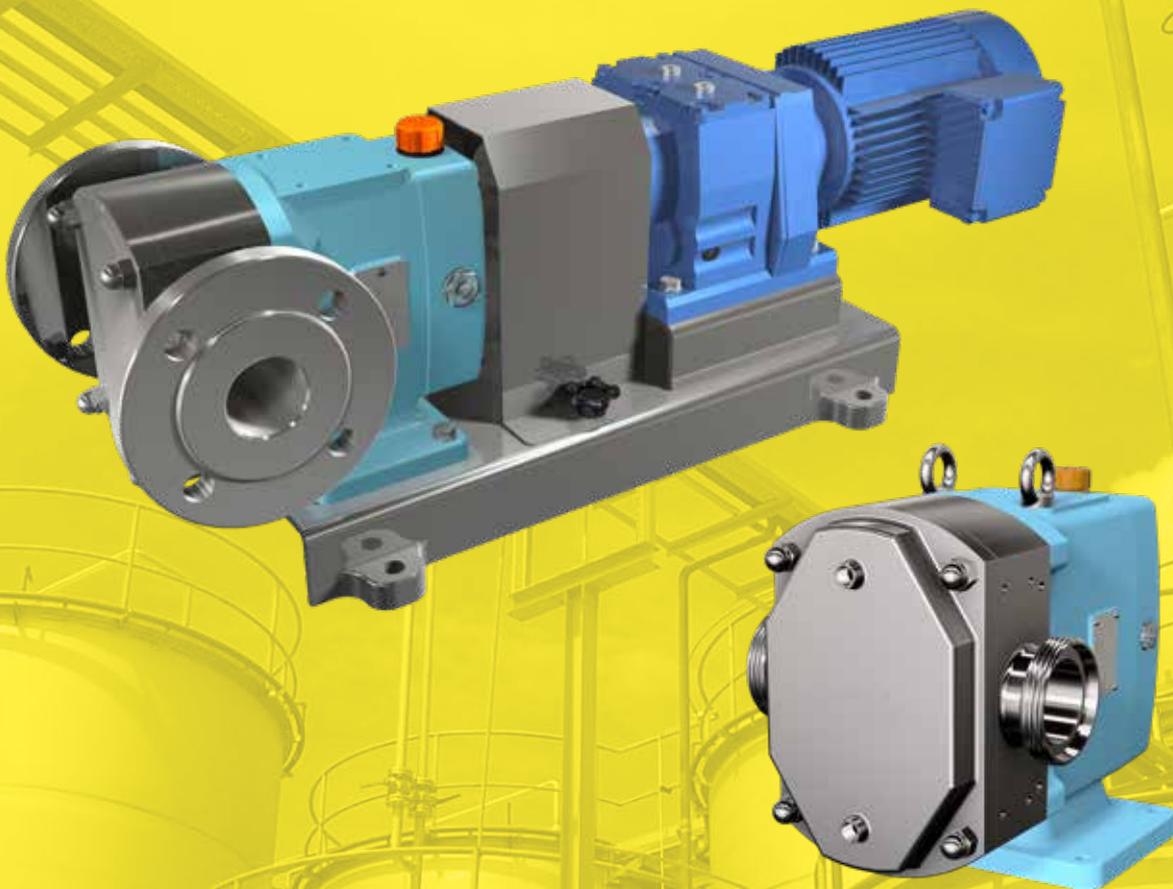


tapflo®

PL ROTARY LOBE PUMP

2020| 2



» All about your flow™

www.tapflo.hu

» All about your flow™

We began our journey 40 years ago 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 1980, 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.

Our solutions are designed and manufactured in Europe and distributed globally to offer the best service and flow solutions to our customers for a variety of applications.

Our values, Commitment, Quality and Simplicity are reflected both in our product and business approach.



For fast and flexible service and high-quality products readily available worldwide, choose Tapflo.

Quality commitment

At Tapflo we are simply committed to quality. As a result, our production standards, as well as products quality, comply with various globally recognised certification and quality control standards. The Tapflo manufacturing process is certified according to ISO 9001:2015, confirming that our processes are appropriate, effective, customer-focused and continuously improved.



Tapflo values

Our culture is concluded in Our values

Commitment

We are different from our competitors because of our willingness to exceed the customers' expectations, move fast and be flexible. Our culture is based on the spirit of togetherness, enthusiasm and integrity. We come from all over the world but we share the same values and we respect each other. We are committed.

Quality

We understand that the quality in our work is never better than the weakest link, that's why we focus on every small detail. We share a common passion for continuously finding more efficient and effective ways to provide value to our customers. As a manufacturer we have control of the complete process both in terms of our products and the way we operate internally. That is why we manufacture the highest quality pumps in our segment.

Simplicity

We have a saying, "Simple is art" which means we try to find smooth and uncomplicated solutions in everything. By keeping it simple we can focus on the essential, like designing uncomplicated pumps with few components. For us it is a key to success; strive to simplify what is complex.

PL series - Rotary Lobe Pump

L.....

PL series pumps have been specially designed to make dismantling (whether for inspection, cleaning and maintenance) quicker and easier.

The forward-seal position places the seals in direct contact with CIP fluids. Superior seal cleanliness lengthens seal life and minimizes seal flaking (products contaminations). Because the seals are located directly behind the rotors, areas of product entrapment are eliminated for superior hygienic performance.

Unique front loading seal design gives faster maintenance, easier cleaning and less downtime. The only dismantling front cover, the rotors and seals are take out without pump dismantling from pipe.



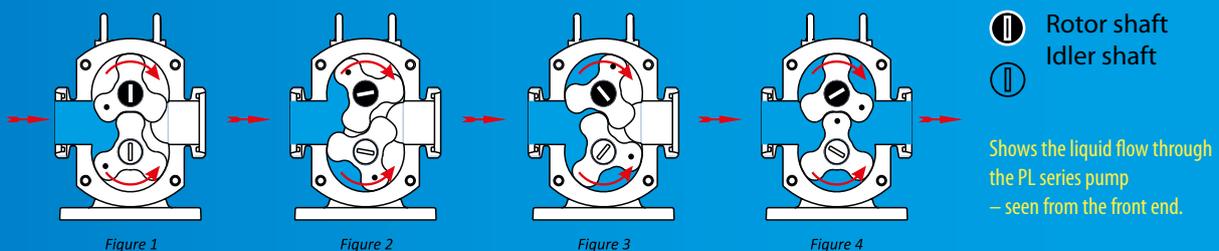
Fast facts

Max. Capacity	40 m ³ /h
Max. Differential Pressure:	20 bar
Max. Viscosity:	250 000 cSt
Max. Temperature:	250 °C

Features & Benefits

- ✓ The revolutionary, EHEDG and 3A certified
- ✓ The all rotor types can be changed without any additional tools or clearance.
- ✓ Unique front loading design
- ✓ Easy of usage and maintenance with only two moving parts
- ✓ The wetted parts are AISI 316 / 316L quality
- ✓ The special designed rotor types allows some pieces inside the liquid

Working principle



PL series pumps are positive displacement pumps. The volume at the inlet increases when the rotors rotate and the product is drawn into the pump. It is then transported in the space between the lobes and the periphery of the pump housing to the discharge side.

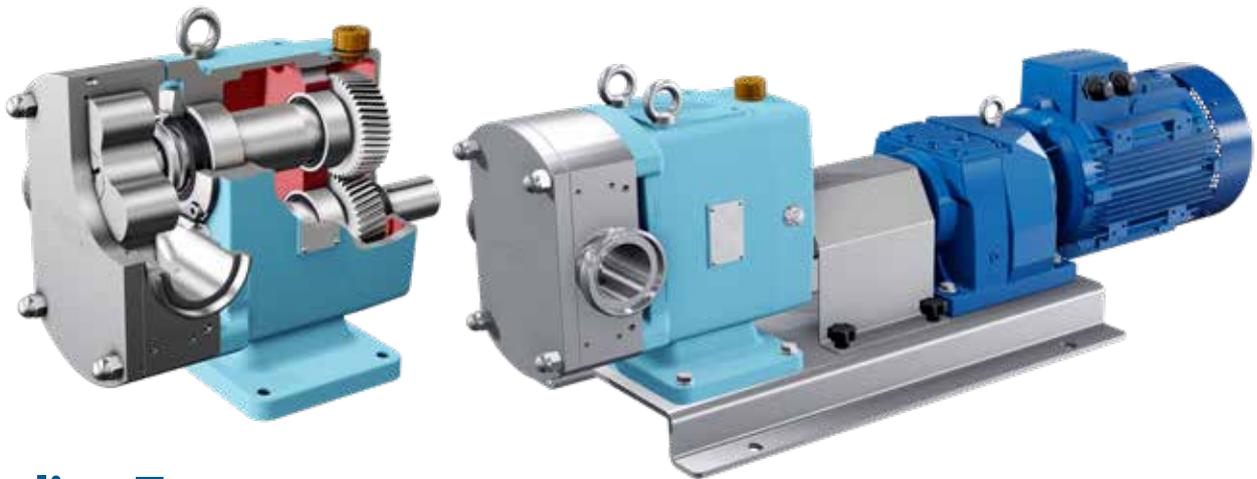
The volume between the rotors are reduced here and the product is forced out through the outlet.

Wide range of applications

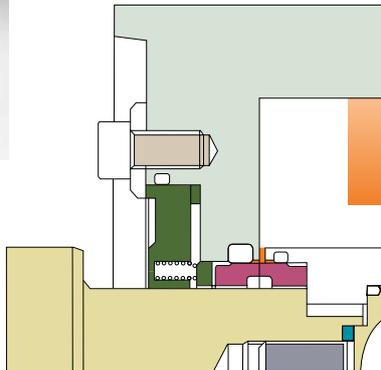


Constuction

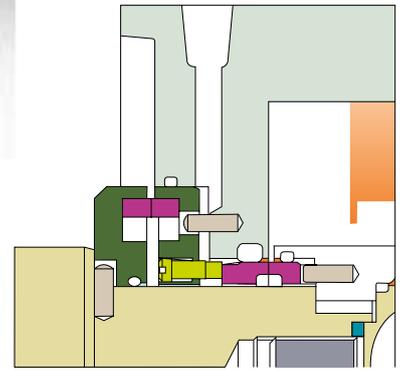
- » Three kind of gear boxes with six kinds of pump models
- » Heating / Cooling jackets easy to fit on the front cover and/or rotor casing
- » The inlet/outlet connection ports are monoblock with casing. It is hygienic due to not welding
- » A Single seal which can be modified to a double type (flushing) with a minimum of additional parts
- » Horizontal ports which can be fitted vertical simply
- » The offered rotor shaft as down as standard, can be easily change to up.
- » It is suitable to drive clockwise / counter clockwise direction (both).
- » The inlet / outlet connection ports can be offered with DIN 11851 or flange
- » The clearances can be setted according to viscosity
- » The inlet port can be rectangular for high viscosity applications to feed well.



Sealing Types



Single Mechanical Seal



Double Mechanical Seal (Flushing)

Lobe Types



The all lobe types can be applicable for same casing.

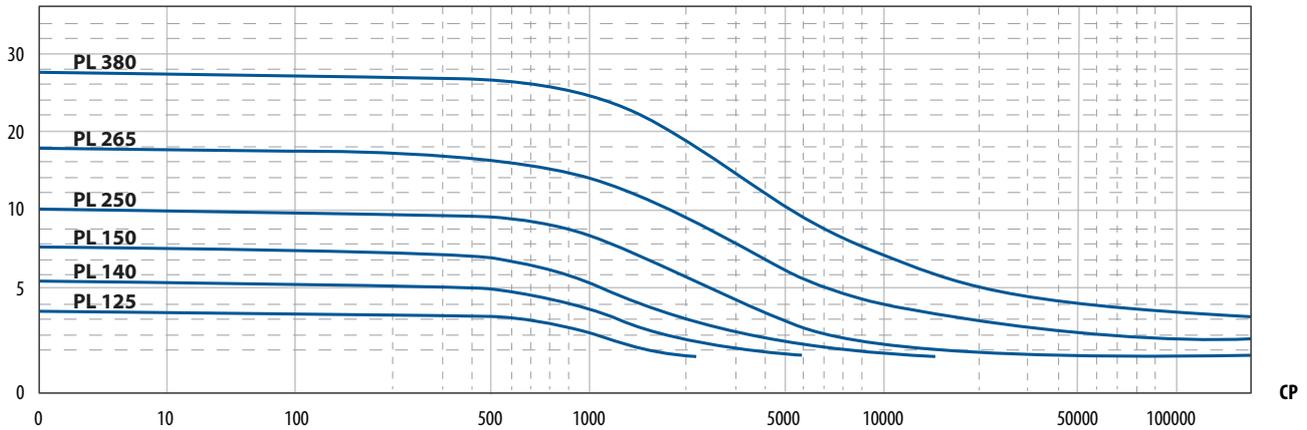


The lobe types according to application:
Single Wing, Bi-Wing, Tri Lobe, Multi Lobe

Performance curves

The data calculated 0 bar at pump inlet (guidance only)

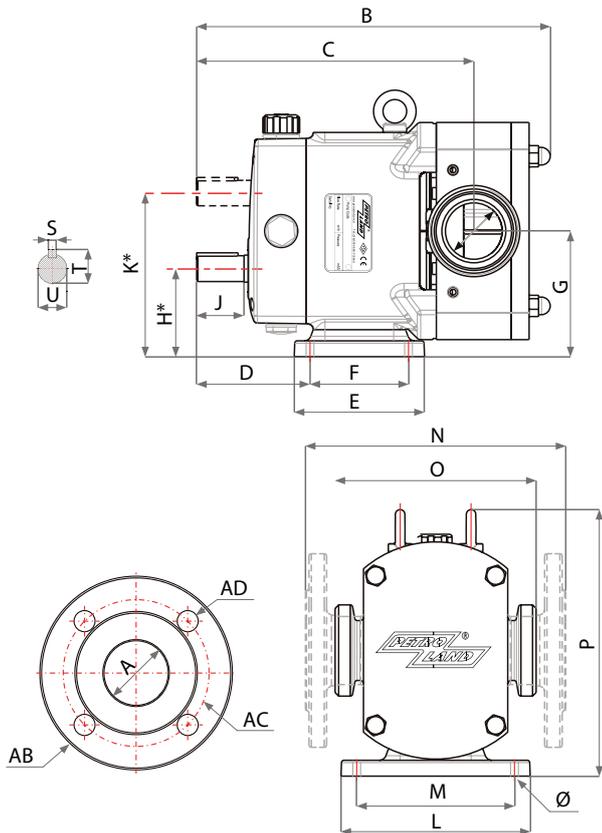
[m3/hr]



Technical data

Model	Capacity			Standard Connection Diameter		Maximum Pressure		Pressure Rating	Maximum Speed rev/min
	Liters /1rev	Int Galon /100 rev	US Galon /100 rev	mm	Inches	bar	PSI		
PL 125	0.05	1.10	1.32	25	1	20	300	PN 16	1000
PL 140	0.12	2.64	3.17	40	1.5	12	175	PN 16	800
PL 150	0.21	4.61	5.54	50	2	8	115	PN 16	800
PL 250	0.41	9.01	10.81	50	2	12	175	PN 16	700
PL 265	0.62	13.63	16.35	65	2.5	8	115	PN 16	700
PL 380	1.02	22.42	26.90	80	3	12	175	PN 16	600

Dimensions



Model	PL 125	PL 140	PL 150	PL 250	PL 265	PL 380
A	25	40	50	50	65	80
B	274	283	300	382	407	535
C	220	225	234	310	322	390
D	97	97	97	116	116	160
E	110	110	110	160	160	210
F	80	80	80	125	125	160
G	107	107	107	157	157	186
H*	75	75	75	115	115	128
J	40	40	40	55	55	70
K*	139	139	139	199	199	243
L	160	160	160	200	200	280
M	134	134	134	170	170	242
N	220	220	220	260	260	322
O	174	174	170	225	220	322
P	227	227	227	312	312	400
Ø	10	10	10	14	14	14
S	6	6	6	10	10	14
T	25.5	25.5	25.5	36	36	49
U	22	22	22	32	32	45
AB	115	150	165	165	185	200
AC	85	110	125	125	145	160
AD	14	18	18	18	18	18
Pump Weight	13	21	24	46	52	95

*H and K dimensions can be produced by 15 mm longer than dimension of standard design for the models PL 125, PL 140 and PL 150. Flange norm DIN 2633

Positive Displacement Pumps



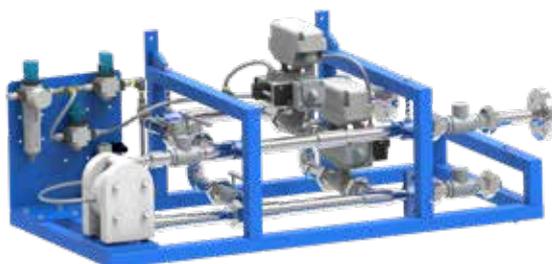
Centrifugal Pumps



Accessories



Unique constructions at a high level



Custom design aims to adapt standard solutions for non-standard needs in industrial processes. This is often achieved by making small modifications to standard products and thus becoming applicable to specific process requirements.

TAPFLO kft.



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Tapflo Hungary is part of the international Swedish Tapflo Group

Tapflo products and services are available in 75 countries on 6 continents.

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

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