

HOSE PUMPS

2021 | 1



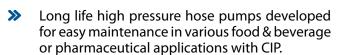
Hose Pumps

Effective hose pump solutions for difficult, abrasive, corrosive and viscous liquids with particles

Innovative & reliable high pressure hose pumps

PT CIP

Effective hose pump solutions for difficult, abrasive, corrosive & viscous liquids with particles.







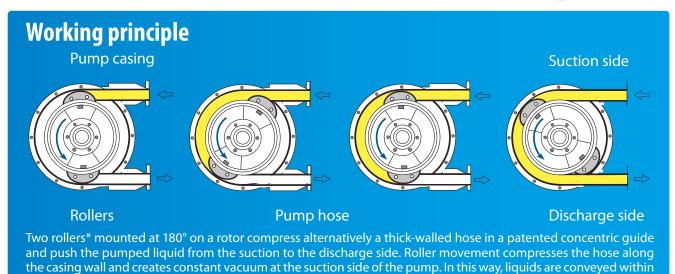
The best solution for simple transfer or dosing applications, allowing you a quick hose exchange to optimize pump operation time.

PTL

Closed casing PEHD hose pump solutions resistant against most aggressive chemicals for difficult applications.







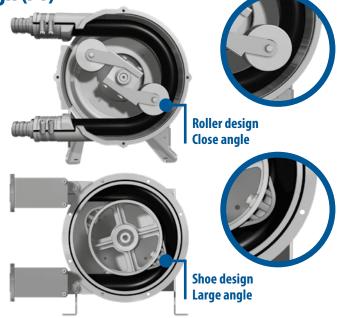
* PT series is equipped with shoes instead of rollers

the hose and do not get in contact with any metal part.

Roller design (PTL & PTL P) vs Shoe Design (PT)

The roller design in **PTL & PTL P** pumps has been proven to be successful in the lower pressure applications until **4 bars**, since lubrication is not really necessary between hose and roller and the radial force are very low allowing the rotation. To protect the hose, the roller operate in grease.

For higher pressures until **15 bars**, from approximate 4 bar, the rollers do not rotate anymore and the angle at the point of compression becomes fairly steep, which acts negatively on the hose. In this case, the **shoe design** of **PT** pumps has been proven to be more efficient, since they act more gentle on the hose.



Tapflo hose pumps features and benefits



Safe to run dry
Easy to use, no monitoring required



Dosing Dosing accuracy up to ± 5%



Few components

The only wear part is the hose, there are no valves, low maintenance costs



Abrasive media

Peristaltic pumps are ideally suited for pumping highly abrasive media.



High viscosity

Viscosities of up to 100,000 mPas can be conveyed



Conveying direction reversible

Simply change the direction of rotation to empty lines



Self priming

Hardly any other type of pump achieves the suction power of a hose pump of up to 9.8 m dry suction height for water



Adjustable

By changing the speed, e.g. using a frequency converter, the delivery rate can be regulated, also for dosing tasks



No turbulence

In the case of highly abrasive media, gentle, low-wear pumping takes place. Also for sensitive media.



Suitable for food and pharmaceuticals

FDA-certified hoses are available for conveying food. Dairy pipe DIN 11 851 or clamps can be supplied as product connections. USP VI is also available.

PTL series



PT series

Typical applications



PTL series

Low pressure hose pumps

Reduce maintenance downtime...

Suitable for pumping and dosing low or high viscous, pasty, pure, neutral, aggressive or abrasive liquids, those containing gases or which tend to froth or those containing solids in the following industries: paint, dairy and beverage, meat and fish processing, pharmaceutical and cosmetics, waste water and water treatment, chemical and petrochemical industries, pulp and paper, textile, soap and fats, building, ceramics.



Capacity:
Viscosity:
Temperature of pumped liquid:
Differential pressure:
Discharge pressure:
Achievable suction:

up to 10 m³/h up to 15000 cps *** up to 135°C * up to 4 bar **

up to 4 bar up to 0,6 bar ***

- * At a room temperature of 20°C. Furthermore, it depends on the pumped fluid, on the hose quality and on the motor construction.
- ** It depends on the pump dimension and on the hose quality.
- *** It depends on the pump dimension/execution, on the speed and on the tube material.

Flow table PTL pumps

[l/h]						
TYPE	10 Rpm	20 Rpm	40 Rpm	60 Rpm	80 Rpm	100 Rpm
PTL09		20	40	60	80	
PTL13		49	98	167	196	245
PTL17		129	259	389	518	648

[m³/h]									
TYPE	20 Rpm	40 Rpm	60 Rpm	80 Rpm	100 Rpm				
PTL25	0,38	0,76	1,15	1,53	1,92				
PTL30	0,82	1,64	2,64	3,28	4,10				
PTL45	2,30	4,61	6,92	9,23	11,5				

Continuous use Intermittent use

Occasional use < 1 hour/day

Available drives

Gear motors or variable speed motors, both TEFC and explosion, electronic gear motor, inverters. Upon request, pneumatic drive units are available.

Available hoses materials & dimensions

Without reinforcing: Norprene®; Tygoprene, Silicone;

Reinforcing food hoses: NR FDA; NBR FDA; EPDM FDA

With polyamide reinforcing: Natural rubber (NR); NBR; EPDM

Size	ID	OD	Length
PTL 09	9	16	330
PTL 13	13	22	390
PTL 17	17	31	590
PTL 25	25	43	1150
PTL 30	30	55	1150
PTL 45	45	75	1455



Mineral	Hose Identification	Available
Tygoprene	Transparent smooth surface	PTL09 - PTL25
Norprene®	Off white, smooth surface	PTL09 - PTL25
Silicone	Transparent, smooth surface or rust colour	PTL09 - PTL25
EPDM Rubber	Black colour white stripe, double braided	
Natural Rubber	Black colour, green stripe, double braided	PTL09 - PTL45
Nitrile Rubber	Black colour	



TAPFLO PTL - Reliable Hose Pumps Exceptionally low shear, ensuring product quality, accurate and predictable performance with subsequent savings.

PTL P series

Resistance to corrosive products

The PTL P peristaltic plastic pump is designed to withstand the most aggressive chemical media to ensure safety and protection.

Housing of our PTL P series pumps are made from antistatic polyethylene (PE HD) which has a superior wear resistance. The pump housing is fully sealed, so the liquid remains inside to avoid any contamination of the floor. The rotor and the roller holders are nickel plated to reduce the downtime and maintenance.



Operating data

Capacity:
Viscosity:
Temperature of pumped liquid:
Differential pressure:
Discharge pressure:
Self-priming:

up to 10 m³/h up to 15000 cps *** up to 80°C * up to 4 bar ** up to 2 bar up to 7 m ***

- * At a room temperature of 20°C. Furthermore, it depends on the pumped fluid, on the hose quality and on the motor construction.
- ** It depends on the pump dimension and on the hose quality.
- *** It depends on the pump dimension/execution, on the speed and on the tube material.

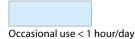
Flow table PTL pumps

[l/h]

TYPE	10 Rpm	20 Rpm	40 Rpm	60 Rpm	80 Rpm
PTL P 09		20	40	60	80
PTL P 13		49	98	167	196
PTL P 17		129	259	389	518







Available hoses materials & dimensions

Natural rubber (NR); perbunan (NBR), EPDM, Neoprene, Neoprene®, Pharmed, Silicone and Hypalon, Tygon®

PT series

High pressure hose pumps

The latest design

PT pumps combine the best available materials with smart design solutions in order to maximise running time and minimise maintenance.

The PT series pump is an extremely reliable pump with a wide performance range, up to 150 m³/h and 15 bars, that can handle most fluids in most applications.



Operating data

Capacity:
Viscosity:
Temperature of pumped liquid:
Discharge pressure:
Self-priming:

up to 150 m³/h up to 100000 cps up to 135°C up to 15 bar up to 9,8 m

Flow table PT pumps

[l/h]

TYPE	10 Rpm	20 Rpm	40 Rpm	60 Rpm	80 Rpm
PT 05 (3 lobes)	3.4	6.8	13.6	20.4	
PT10 (3 lobes)	10	20	40	60	
PT 10	15	30	60	90	120
PT 15	50	100	200	300	400
PT 20	65	170	340	500	670
PT 25	200	400	800	1 200	1 600
PT 32	375	750	1 500	2 250	3 000
PT 40	565	1 170	2 340	3 510	4 680
PTX 40	800	1 600	3 200	4 800	6 400
PT 50	1750	3 500	7 000	10 500	14 000
PT 65	2300	4 600	9 200	13 800	18 400
[l/h]					

TYPE	10 Rpm	20 Rpm	30 Rpm	35 Rpm	40 Rpm	45 Rpm	50 Rpm
PTX 80	5 500	11 000	16 500	19 250	22 000	24 750	27 500
PT 80	7 000	14 000	21 000	24 500	28 000	31 500	35 000
PT 100	12 000	24 000	36 000	42 000	48 000	54 000	
PT 125	22 000	44 000	66 000	77 000	88 000		

Continuous use

Intermittent use

Occasional use < 1 hour/day

Available hoses materials

The PT series is designed to make hose changes quick and easy with no technical knowledge required. We only work with high quality compounded rubbers, reinforced with 2 to 6 individual layers of braided polyamide and with an outer layer made to strict tolerances to ensure perfect compression. The characteristics of Tapflo hoses enable them to last approximately 30% longer than other hoses on the market. They also fit the majority of other hose pumps.

For the hose inner layers, 8 materials are available to suit the diversity of the pumped fluids.

	white marking	double white marking	yellow marking	white & yellow marking	marking	red marking	blue marking	purple marking
	NR (natural rubber)	NR FDA	NBR (buna)	NBR Food (approved FDA)	EPDM	EPDM (approved FDA)	HYPALON/CSM	VITON/FKM
	No. ATTENION ALI CALMOE DA COMPTUE MINISTER	NO ATTENDO ALICALAGE IN COMPUS MUDICIPALITY	SHIPMEND NOW - ATTEMPOR AN CALL	STREET, STREET	The state of the s			
Water treatment & Industrial waste	х	x	х		х		х	Х
Ceramic industry	х				х			
Mining & quarries	Х		Х		Х		X	Х
Building & constructions	х		Х		Х			
Chemical	х		х		Х		Х	Х
Food & beverage	х	X		X		Х		
Paint	Х				Х			
Pulp & paper	Х				Х			
Agriculture, biogas	Х	Х	Х		Х		X	Х

Pulsation dampener

In-line pulsation dampener will reduce vibration and water hammers in the piping therefore increasing the hose life.

Features & Benefits



Pulsation reduction up to 90%



Easy installation



Few parts in contact with media



PT CIP

The revolutionary high pressure CLEAN IN PLACE

Tapflo as the leader of innovative peristaltic hose pump has developed a solution for easier and better clean in place hose pumps - A unique wheel to meet the requirements of its industrial customers from food, cosmetic and pharmaceutical industries.

The new PT CIP pump has a patent pending designed pump-wheel that will allow the pressing shoes to retract (not to compress the pump) for an efficient clean in place process.

Operating data

Capacity: from 0,5 up to 10 m³/h Discharge pressure: up to 15 bar



PT pumps are available in "CIP wheel" (Clean In Place) option. It allows users, by simply reversing the direction of rotation of the pump ($\frac{1}{2}$ turn), to be able to retract the shoes automatically, in order to make the cleaning and sterilization operations, without any action on the pump. The client saves time and will keep the highest level of functionality in the process.

Features & Benefits



Seal-less design



Can run dry without damage



Does not damage or shear the pumped fluid while maintaining a high level of hygiene



A maximum amount of function and production time



Min. use of moving parts and requires a min. amount of maintenance



Only the inner part of the hose is in contact with the pumped fluid

Available hoses materials

Tapflo can offer food grade hoses in **EPDM FDA**, **NBR FDA** and **NR FDA** and meet the certifications EC 1935/2004 and FDA CFR21§177.2600.

The internal of the hose is white (NR FDA and EPDM FDA) or black (NBR FDA), according to the pumped fluid.



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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.

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