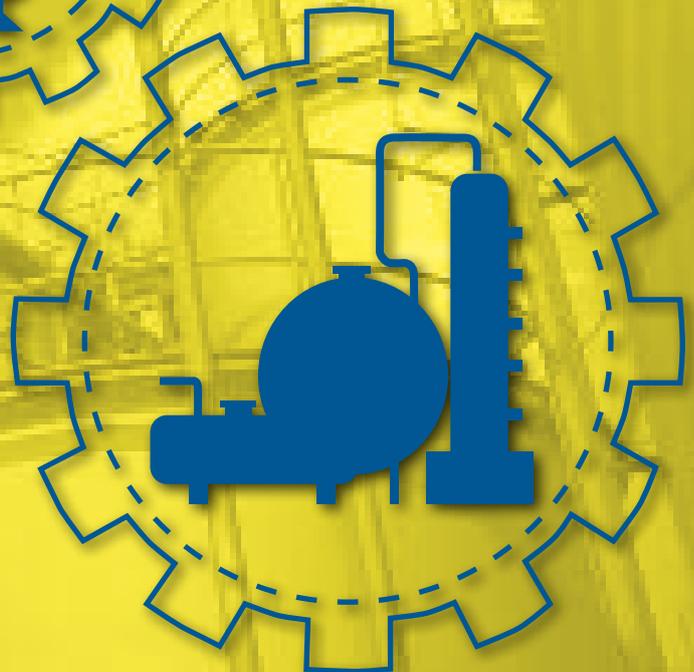
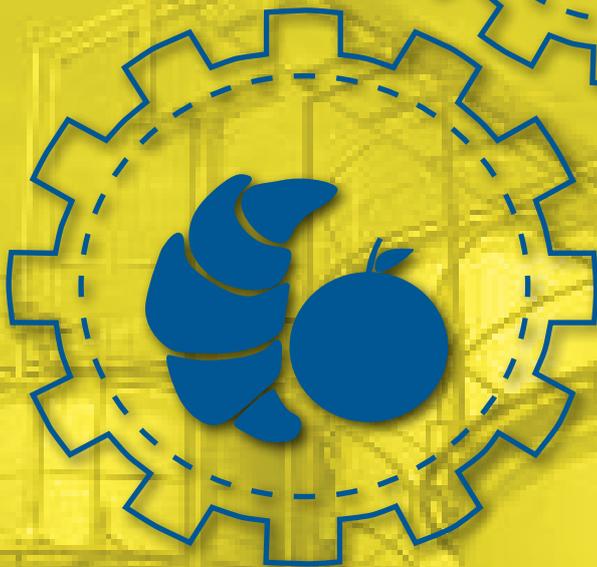
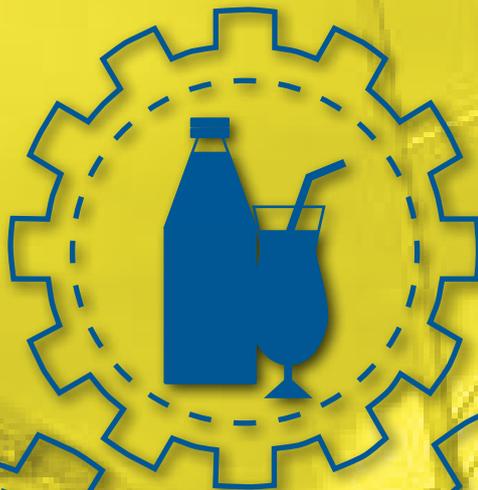
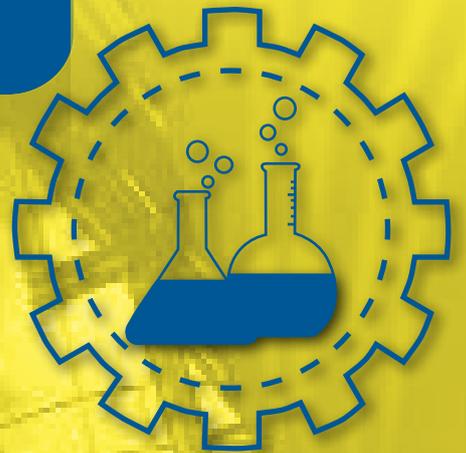


# TAPFLO (PTY)LTD PRODUCT PORTFOLIO

2021 | 1



# Positive Displacement Pump Technologies

## Air Operated Diaphragm Pumps

Our Diaphragm Pump range offers some of the most versatile pumps on the market today, which can be used in a variety of installations in numerous applications. Tapflo's Diaphragm Pump range meets the demands of heavy industrial, hygienic and pharmaceutical applications.

### Features & Benefits

- ✓ Run dry without damage
- ✓ Self-priming up to 5 m
- ✓ Few components
- ✓ Lubrication free
- ✓ Air operated
- ✓ Variable flow



### PLASTIC | CHEMISTRY

CE AT EN 10204 FDA

Tapflo pumps made from polyethylene (PE-HD) or PTFE are suitable for handling almost any kind of liquid whether it is viscous, chemically aggressive or with solids.

**Material:** PE, PTFE

**Diaphragm:** EPDM, PTFE, NBR, FKM

**Max flow:** 820 l / min

**Max pressure:** 8 bar

**Connections:** 180° rotatable, BSP and NPT female threaded connections as standard. DIN & ANSI Integrated Flange or other flanged connection types are available as an option

### METAL | INDUSTRY

CE AT EN 10204 FDA

The compact, smooth and simple design is common for this series. Materials available are aluminium, cast iron, stainless steel and PTFE coated aluminium.

**Material:** ALU, Cast Iron, SS AISI 316

**Diaphragm:** EPDM, PTFE, NBR, FKM

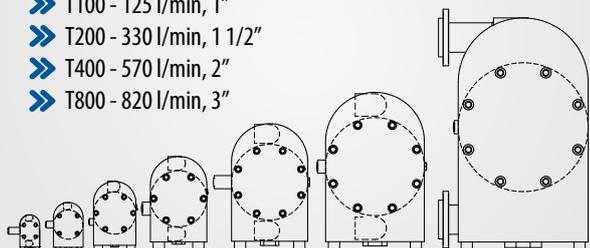
**Max flow:** 820 l / min

**Max pressure:** 8 bar

**Connections:** 180° rotatable, BSP female threaded connections as standard. Optional NPT female thread or DIN, ANSI, JIS Flanges or other connection types are available as an option

#### The PE & PTFE pump range

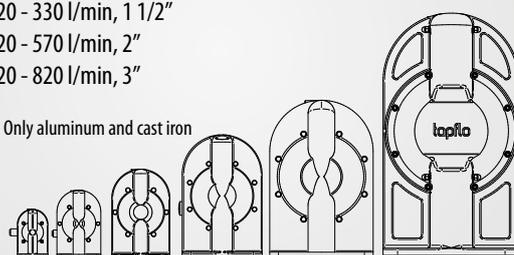
- » TR9 - 11 l/min, 1/4"
- » TR20 - 24 l/min, 3/8"
- » T50 - 60 l/min, 1/2"
- » T100 - 125 l/min, 1"
- » T200 - 330 l/min, 1 1/2"
- » T400 - 570 l/min, 2"
- » T800 - 820 l/min, 3"



#### The metal pump range

- » T25\* - 26 l/min, 1/2"
- » T70 - 78 l/min, 3/4"
- » T120 - 158 l/min, 1"
- » T220 - 330 l/min, 1 1/2"
- » T420 - 570 l/min, 2"
- » T820 - 820 l/min, 3"

\* = Only aluminum and cast iron



# Air Operated Diaphragm Pumps

## SANITARY

CE AT  EN 10204  FDA  

The Tapflo sanitary series is particularly designed to meet the requirements of the food, beverage, pharmaceutical and cosmetic industries. The materials used on certain models comply with the FDA guidelines.

**Material:** SS AISI 316L

**Diaphragm:** EPDM, white EPDM, PTFE, and NBR.

**Max flow:** 820 l/min

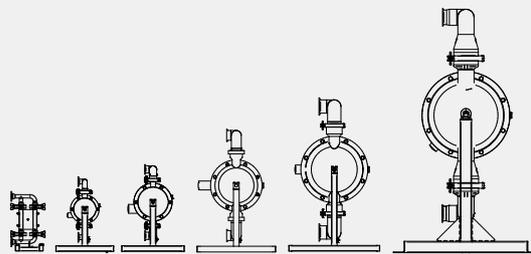
**Max pressure:** 8 bar

**Connections:** DIN 11851, Tri-clamp 1"-3", Flange, SMS, Camlock and others on request



### The sanitary pump range

- » T30 - 28 l/min, 1"
- » T80 - 78 l/min, 1"
- » T125 - 155 l/min, 1 1/2"
- » T225 - 330 l/min, 2"
- » T425 - 570 l/min, 2 1/2"
- » T825 - 820 l/min, 3"



### Easy draining

Our design allows for total visual inspection of the wetted parts. There are no hidden areas where bacteria can grow.



## INTELLIGENT PUMP TC | LEAP®

FDA  CE EN 10204  

LEAP® or 'Low Energy Air Pump' is a patented technology used in AODD pumps to reduce the minimum operating air pressure by reducing internal losses and friction found in conventional AODD pumps.

LEAP uses a unique indirect system to detect the position of the diaphragm shaft controlling the diaphragm movement automatically.

Powered by



### Features & Benefits

 Noise Reduction

 Improved Maintenance

 Batch Dispensing

 Electrical feedback

 Dry Running

 Available in Plastic, Metal and Sanitary series AODD pumps

## ELECTRICALLY OPERATED DOUBLE DIAPHRAGM PUMPS

CE AT Ex EN 10204   

The EODD range is suitable for dealing with chemicals, surface conditioning, pulp and paper industries, water treatment and a wide range of hygienic applications.

**Material:** PE, PTFE, ALU, SS 316L

**Diaphragm:** EPDM, PTFE, NBR, FKM

**Max flow:** TE50/70/80 = 48 l/min, TE100/120/125 = 110 l/min, TE200/220/225 = 220 l/min

**Max pressure:** 4 bar

**Connection:** 180° rotatable, BSP and NPT female threaded connections as standard for Plastic and Metal pumps, tri-clamp for Sanitary pumps



## ASEPTIC EHEDG SERIES PUMPS

CE AT Ex EN 10204   

Tapflo Aseptic series pumps are designed for service in pharmaceutical-, biotech- and food industries where a clean process is the key.

Tapflo Aseptic series is EHEDG certified, has FDA and USP VI approved materials and conform to the ATEX directive 2014/34/EU.

### THE EHEDG CERTIFICATE



The EHEDG (European Hygienic Engineering & Design Group) certificate is your guarantee that the design is according to the hygienic guidelines. Furthermore the pump is cleanability tested, which means bacteria does not grow in the pump after cleaning and draining procedure.



Keeping your process clean  
Smooth surfaces and cleanability are important keys for the EHEDG certification

## PHARMACEUTICAL PUMPS - 5UVI SERIES

CE AT Ex EN 10204   

USP VI approved pharmaceutical series air driven pump for pharmaceutical and biotech industries

This pump series was developed in co-operation with one of the world leading supplier to the biotech market. It serves the biotech- and pharmaceutical industries in numerous applications.

Our unique USP approved (United States Pharmacopoeia) hygienic PTFE or PP pump, features all wetted parts in USP class VI certified materials.



# Special versions



## PUMP WITH BUILT-ON DAMPENER



The built-on dampener is an ideal solution to eliminate pressure variations on the pumps discharge where space in the installation is limited.

The model is available for our TR20, T50, T100 and T200 plastic pumps and TRK20, TK50, TK100, TK200 for metal pumps.



## INTEGRATED HEAVY DUTY FLANGES

The robust design of integrated flanges proves itself useful when there is a risk of vibration from the installation. The solid manifolds provide better stability and sealing for the pump.

This design is a perfect solution for most demanding applications such as in TF Filter press pumps where pump operates at higher pressures.

- » Available for sizes: T50, T100, T200, T400
- » Available materials: PE, PE cond., PTFE, PTFE cond.
- » Flange standard 3A = ANSI flanges 3D = DIN flanges



## TWIN PUMPS | TT SERIES

Tapflo PE & PTFE series pumps may be fitted with double in/outlet to achieve "two pumps in one" for blending, mixing or recirculation of liquids.

The liquid in one pump chamber is separated from the other one.

**Tapflo TX** ATEX classification:  
Ex II 2G Ex h IIC T6...T4 Gb  
Ex II 2D Ex h IIIC T60°C...T125°C Db

**Tapflo TZ** ATEX classification:  
Ex II 1G Ex h IIC T6...T4 Ga



## EXPLOSION PROOF PUMPS | TX SERIES

The ATEX directive 2014/34/EU (also known as ATEX 114) is applicable on products used in explosion hazardous zones.

Tapflo pumps made from conductive (carbon filled) plastics PE or PTFE are made for use in explosion hazardous environments. They can be used in Ex-zone 1 and Ex-zone 0. The conductive material ensures that no electrostatic loads will be accumulated in the pump. The conductive pigment in the material reduces the surface resistance. Transfer of alcohol and solvents are examples of applications for the Tapflo TX and TZ pumps.



## DRUM PUMPS

Light and mobile solution for emptying drums and IBC containers Tapflo TD pumps are irreplaceable in such applications. The plastic pumps are fitted with a drum tube in polypropylene (PP) or PTFE and a handle in AISI 316L stainless steel. The metal pumps are fitted with a drum tube in aluminium or stainless steel and a handle in AISI 316L stainless steel.



### Models available with flap valves:

- » T80 (max 18 mm solids)
- » T125 (max 18 mm solids)
- » T225 (max 44 mm solids)
- » T425 (max 44 mm solids)
- » T825 (max 100 mm solids)

## FLAP VALVES FOR BIG SOLIDS

Flap valves are available for the sanitary pumps, ideal in applications with bigger size and delicate solids. The gentle pumping principle will maintain solids without any destruction.



## TWIN PUMPS | TT SERIES

Tapflo metal series pumps may be equipped with double in/outlet to achieve "two pumps in one" for blending, mixing or circulation of liquids. The liquid in one pump chamber is separated from the other one.



## MAGNETIC BALL LIFTERS

Magnetic ball lifters are implemented in Sanitary AODD pumps, to enable pump emptying without removing it from the installation when no other draining option is available. Rotating the pump is no longer needed.



» Available for sizes: **T80, T125, T225, T425**

## HEATING JACKET

The heating jacket is used when the pumped product has to maintain a specific temperature, high or low, throughout the process. A heating or cooling medium is continuously circulated in the heating jacket. The jacket is covering all the wetted parts of the pump.



AT 

Tapflo TX ATEX classification:  
Ex II 2G Ex h IIC T6...T4 Gb  
Ex II 2D Ex h IIC T60°C...T125°C Db

Tapflo TZ ATEX classification:  
Ex II 1G Ex h IIC T6...T4 Ga

## EXPLOSION PROOF PUMPS | TX SERIES

The ATEX directive 2014/34/EU (also known as ATEX 114) is applicable on products used in explosion hazardous zones. All aluminum and cast iron pumps are by standard ATEX approved and permitted to be used in Zone 1, having model names TX...

# Systems & accessories

## MOBILE SOLUTIONS FOR PUMP UNITS AND SYSTEMS

Mobile pump units are found as the best solution for the users of spread technological processes. The portability of the Units allows easy movement to various locations. This means almost limitless application.



### Trolley S | 2-wheel

Tapflo standard AODD pumps with capacity up to 125 l/min (pump sizes: up to 100/120, except T80),



### Trolley M | 4-wheel

Tapflo standard AODD pumps with capacity up to 570 l/min (pump sizes: up to 400/420, except T425),



### Hygienic trolley

Hygienic trolleys offered by Tapflo are available in two sizes. M Trolleys are used for standard pumps up to T425. L Trolleys are used for pump dampener assemblies.

## CONTROL SYSTEMS



### Pneumatic batch control

Pneumatic batcher can control any Tapflo AODD pump to deliver accurate and repeatable volumes. Fully programmable allowing you to set the batch amount (TPUK-BP) or batching time (TPUK-BT).

### Pneumatic level control

A fully pneumatic automatic level system used to maintain set liquid levels within a sump or tank.

### Stroke counter / low pressure VFC

A stroke to volt free contact (VFC) is available for integration with PLC systems. Simply connect to any AODD pump via the air exhaust muffler to monitor the pump strokes.

### Life counter

Tapflo's life counter simply connects to the AODD pump air exhaust, representing the strokes on the LCD display. Compact, easy to use and cost effective this simple system will allow you to control servicing and implement a preventative maintenance routine.

## GUARDIAN

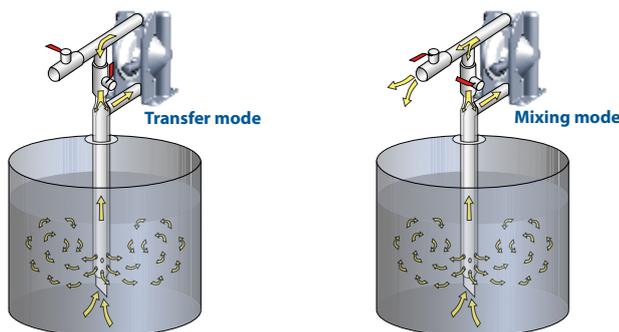
The Guardian is an energy conservation device designed to protect an air operated double diaphragm (AODD) pump from operating in an inefficient manner that uses unnecessary energy and reduces the life of its parts. It also offers the added benefit of providing greater safety to applications of high risk. The Guardian directly monitors the discharge fluid pressure against its set point stopping the pump if the media pressure increases above the set point (closed valve) or falls below the set point (dry-run) dependant on configuration. What is more, **the Guardian unit can be used in a diaphragm rupture monitoring system to switch off the pump when a diaphragm break occurs thus preventing any liquid spillage.**



## PNEUMIXER

### EN 10204

The Pneumixer was initially developed for the paint and ink industry where most raw materials in drums or containers settle out over time and need to be mixed or blended prior to use. This usually means rolling, shaking or pumping to a mixing vessel; that adds time, waste, mess and expense.

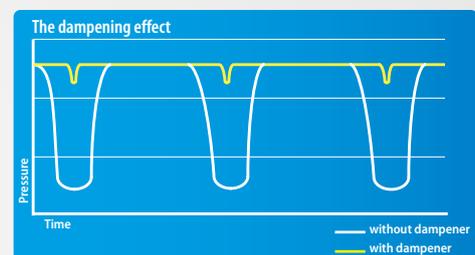


## ACCESSORIES FOR DIAPHRAGM Pumps

### ACTIVE PULSATION DAMPENERS



The active pulsation dampener is the most efficient way to remove pressure variations on the discharge of the pump. The Tapflo pulsation dampener works actively with compressed air and a diaphragm, automatically setting the correct pressure to minimise the pulsations.



### AIR TREATMENT SYSTEM

You will always be able to run the pump with right air quality and optimum pressure and speed to save energy.



### OPTIONAL CONNECTIONS

Camlocks and a full range of sanitary counter connections for quick pump disconnection.



# Peristaltic | Hose Pumps

Hose pumps are perfect for applications with viscous and abrasive fluids. We have the widest model program and believe that we have the market's most durable hose pump.



## Features & Benefits

- ✓ Easy to install
- ✓ Seal-less design
- ✓ Self-priming
- ✓ Continuous dry running
- ✓ Reversible flow

## PTL SERIES - LOW PRESSURE HOSE PUMPS

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.

**Model:** PTL

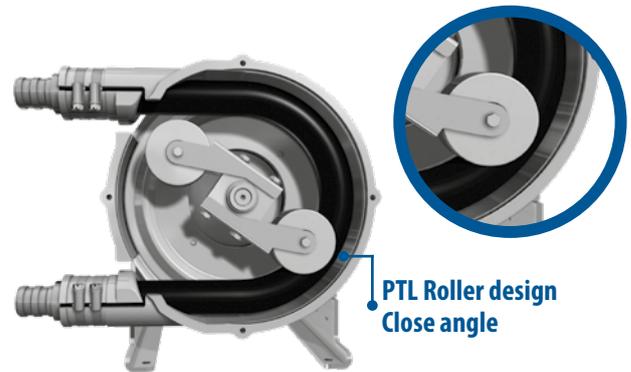
**Max flow:** 10 m<sup>3</sup>/h

**Max pressure:** 4 bar depending on model and hose

**Max viscosity:** 15,000 cPs

**Max temp:** 135°C

**Hose material:** Without reinforcing: Neoprene(R), Hypalon, Silicon, Pharmed  
With polyamide reinforcing: Natural Rubber(NR),NBE, EPDM



## PT SERIES- HIGH PRESSURE HOSE PUMPS

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 m<sup>3</sup>/h and 15 bars, that can handle most fluids in most applications.

**Model:** PT

**Max Flow:** 150 m<sup>3</sup>/h

**Max Pressure:** 15 bar depending on model and hose

**Maximum viscosity:** 60,000 cP

**Max temp:** 135°C

**Hose material:** NR, NBR, EPDM, FKM, NR FDA, NBR Food, Hypalon/CSM & Viton/FKM hoses



## PT CIP

The 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.

# Progressive Cavity Pumps

Eccentric screw pumps for liquids with high viscosity or fragile content. Pulsation-free flow up to 110 m<sup>3</sup>/h and pressure up to 48 bar.

## ECCENTRIC SCREW PUMP

AT  

The pump provides a pulsation-free flow, can handle high pressures and is at the same time very gentle on the liquid and its contents with excellent suction capabilities. Model DX complies with strict hygiene requirements in the food and pharmaceutical industry.

**Model:** D/DX, R/RF, RL, R/L, RFL Wobble Pump

**Max flow::** 110 m<sup>3</sup>/h

**Max pressure:** 48 bar

**Max.temp:** 110°C

**Stator:** SS 316, Stainless 304, Cast iron, Duplex

**Rotor:** NBR, EPDM, FKM



**Model**

For hygienic applications



**Model**

For industrial applications

# Twin Screw



## PDSP



The PDSP is particularly versatile in terms of solids passage; requirements are fulfilled through the supply of 3 different sizes of pump that can handle different flow and solids. Not only can the Sanitary Twin Screw handle fragile solids, but it can be supplied with optional large pitch screws which allows the pump to handle an increased capacity and solids passage of up to 40mm free passage in diameter.

The high-grade material and the EHEDG design mean that this Pomac Pump is appropriate for sanitary & pharmaceutical applications.

**Model:** PDSP

**Max flow:** 140 m<sup>3</sup>/h

**Max pressure:** 16 bar

**Connections:** 2"/DN50 – 5"/DN125 DIN11851, SMS1145,

Flanged EN1092 or Tri-Clamps, EHEDG certified DIN 11864-1, DIN 11864-2

**Seals:** Single or double seal SIC / SIC or TC / TC

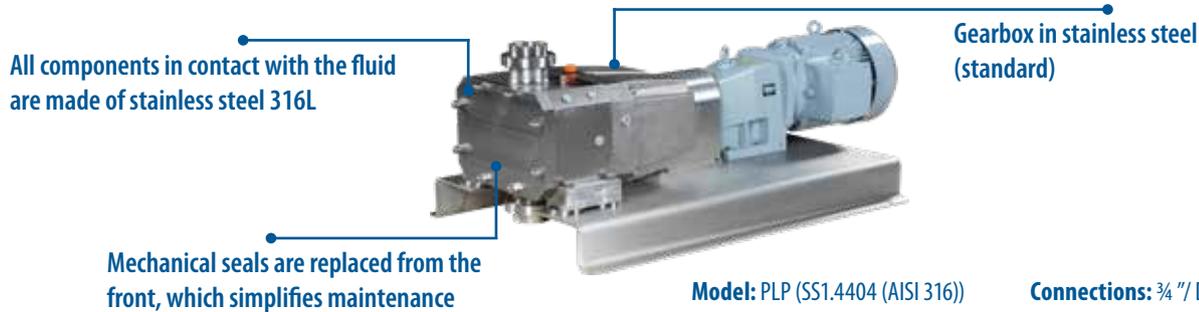
**O-rings:** EPDM, FKM, NBR, PTFE, KALREZ



# Rotary Lobe Pumps

PLP AT  

PLP Lobe pumps are designed to achieve maximum pump performance combined with minimal product damage. The pump is based on heavy bearing construction and large displacement in the pump housing, while maintaining a compact design. Suitable for process, life and pharmaceutical industry.



Type	Displacement Liters/100 rev	Max. speed rev/ min	Max. pressure bar
PLP 1-3/4	4,2	1000	20
PLP 1-1	6	1000	15
PLP 1-1,5	10	1000	10
PLP 1.5-2	20	1000	8
PLP 2-1,5	22	1000	20
PLP 2-2	30	1000	15
PLP 2-2,5	36	1000	10

**Model:** PLP (SS1.4404 (AISI 316))

**Max flow:** 110 m<sup>3</sup>/h

**Max pressure:** 20 bar

**Max viscosity:** 100000 cP

**O-rings:** EPDM, FKM, NBR, PTFE, KALREZ

**Connections:** 3/4" / DN20 - 4" / DN100 DIN11851,

SMS1145, Flanged EN1092 or Tri-Clamps

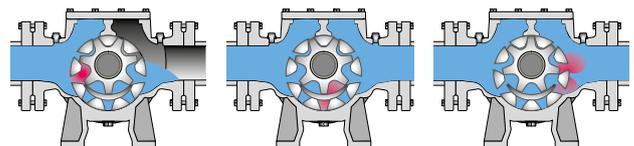
**Mech. seal:** Single or double SIC / SIC or TC / TC

Type	Displacement Liters/100 rev	Max. speed rev/ min	Max. pressure bar
PLP-3-2	66	750	20
PLP 3-3	100	750	15
PLP 3-4	130	750	10
PLP 4-4	250	750	15

## Gear Pumps AT

Gear pumps in cast iron, brass and acid-resistant steel for transport and dosing of high and low viscosity liquids.

Pumps for transportation and accurate dosing of low and high viscous liquids ideally without particle content. Self-priming pump with continuous flow that can handle high pressures. Also available with magnetic drive. According to API676. Gear pumps are used or have a potential in all types of industries for pumping liquids like pure or filled bitumen, chocolate, oils etc.



	TG L	TG G			TG H
		TG GS	TG GP	TG GM	
<b>Pump casing</b>	Cast Iron	Cast Iron			Stainless Steel Cast Steel Ductile Iron
<b>Idler &amp; rotor</b>	Steel	Iron Stainless Steel			Nodular Iron Stainless Steel
<b>Max capacity [m<sup>3</sup>/h]</b>	8	80	130	250	130
<b>Max differential pressure [bar]</b>	30	10	16		16
<b>Max temp [°C]</b>	250	200	300		300
<b>Max viscosity [m.Pas]</b>	60 000	5000	80 000		80 000



# Dosing | Motor - Driven Metering Pumps



## MOTOR-DRIVEN METERING PUMPS

Larger series of metering pumps with pump housing in metal or plastic. For extra safety or pressure, the pump is also available in four types - Plunger, Mechanical diaphragm, Hydraulic diaphragm & Sandwich Hydraulic diaphragm . The pump is also available in sanitary specifications.

**Max discharge volume:** 0-3569 Lt/h

**Max discharge pressure:** Max 250 Bar

**Optional:** Pulsation free technology | Smoothflow Pumps

## Optional Adders & Accessories



**MULTI HEAD**



**RAPIDA CONTROLLER**



**BUS STROKE ADJUSTMENT**



**PNEUMATIC STROKE ADJUSTMENT**



**ACIDIC CHEMICAL PUMP |  
CAUSTIC SODA PUMP |  
SODIUM HYPOCHLORITE PUMP |  
BOILER CHEMICAL PUMP |  
POLYMIR PUMP**



**PULSATION DUMPENER**



**SAFETY RELIEF VALVE**



**RELIEF VALVES AND BACK PRESSURE VALVES**

# Dosing | Solenoid Driven Metering Pumps

Magnet and motor driven dosing pumps with a functional and attractive design of high quality. High quality dosing pumps with a functional design.

## SMC / SML - Analogic dosing pump.

Potentiometer manual adjustment range 10–100% with double regulating scale. The SML version is for level control setting (supplied without probe).

## SMM - Digital dosing pump.

Manual flow rate adjustment with 3 digit display from 0–100%. Level control setting (supplied without probe).

## SSC - Digital dosing pumps.

3 digit display. Capacity adjustment by incoming signal configured by user between 0–20mA. Level control setting (supplied without probe).

## SSW - Digital dosing pump.

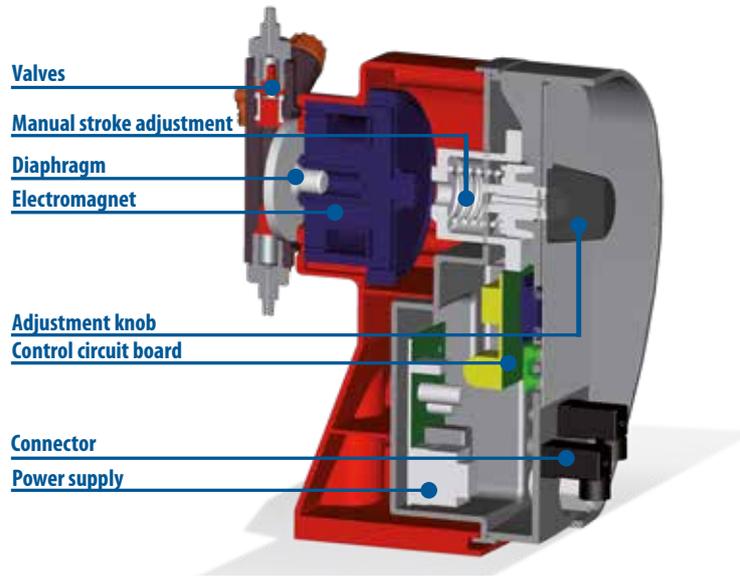
Display LCD 12X2. Multifunction or proportional by incoming digital or analogic signal: 0–20 mA; 1xn; 1:n; 1xn–M. Level control setting (supplied without probe)

## SWM - Digital dosing pump.

Capacity with manual adjustment or proportional by digital signal (Flowmeter with output signal) with different function: Pulse multiplier: 1xn; Pulse divider: 1:n; Pulse multiplier with memory; 1xn–M; Level control setting (supplied without probe).

## SMF - Dosing pump with pH, Rx, Cl built in instruments.

Operation mode: 0–14 pH; –1000; +1400mV; 0–2, 20, 200 ppm; Temperature compensation 0–100°C; 4–20mA out-put; Protection IP65; Predisposed for level probe setting (probe excluded);



**Manufactured in:** PVC, PVDF, SS and Acrylic

**Max capacity:** 60 Lt/hr

**Max pressure:** 20 bar depending on the specific model



## SOLENOID DRIVEN METERING PUMP

This model is designed specifically for handling sodium hypochlorite.

**Model:** DCLPW, CLPW, CLPZ, ARPZ

**Max discharge volume:** 6 l/h

**Max discharge pressure:** 10 bar

**Control:** Digital, Analog Input & Output



## SOLENOID DRIVEN DOSING PUMP

Dosing pump with several different control possibilities. The pump can handle both demanding fluids and harsh environments.

**Model:** PW, PWM, PWT

**Max discharge volume:** 13,2 l/h

**Max discharge pressure:** 20 bar

**Control:** Digital, Analog Input & Output

# Centrifugal Pump Technologies

## Mechanical seal options

Industrial Pumps

### » METAL SERIES



CTI | CTX I

CE AT

The Industrial Centrifugal Pump is a highly versatile option for a wide variety of applications. It offers users corrosive resistance and can also be ATEX Rated for pumping highly volatile/explosive fluids.

**Model:** CTI (semi-open / open impeller),

CTX (open impeller)

**Max flow:** 115 m<sup>3</sup>/h

**Max pressure:** 88 m

**Connection:** BSP 3/4" - 2.5" or Flange DN20-65

**Seal:** Single, Ceramic / graphite or SiC / SiC

Wetted parts and external surfaces sand blasted to Ra<3.2 as standard.



HG

HD | HG | RS

HG pumps have the same interaxis of ISO 5199 chemical norm pumps, this means easy interchangeability. HG pumps can handle slightly contaminated liquids or non abrasive slurries in the chemical and petrochemical industries; well suited for handling liquids with gas contents up to 10%.

**Model:** HD = Closed Imp. HG = Semi Open Imp. RS = Vortex impeller)

**Max flow:** 300 m<sup>3</sup>/h

**Maximum pressure:** 60 m

**Connection:** Flange DN32-80, UNI / DIN11851 PN16

**Seal:** Single, Double, Gland packing



RC

RB

RB | RC | RD | RG

Pump series according to ISO2858-5199, is based on its robust construction which, combined with its high efficiency, makes the pump a really good process pump in both SS 316 and cast iron.

**Model:** (RD = Closed Imp. RG = Semi Open Imp., RB = Channel Imp., RC = Vortex Impeller)

**Max flow:** 2400 m<sup>3</sup>/h

**Maximum pressure:** 140 m

**Connection:** Flange UNI EN 1092PN16 or ANSI

**Seal:** Single, double, Gland packing, cartridge

**Arrangements:** Close-coupled, Lantern Bracket + Long coupled

### » PLASTIC SERIES



CTP

REACH

CTP Pump is manufactured from glass reinforced PP or PVDF and has a mechanical seal which protects the metallic parts against corrosion.

The pump is equipped with a simple mechanical seal.

**Model:** CTP

**Max flow:** 28 m<sup>3</sup>/h

**Maximum pressure:** 19 m

**Connection:** Flange DN25-50 or BSP 1 1/4 - 2"

**Seal:** Simple, ceramic / graphite or SiC / SiC



KR SEALPRO

The pump is available in the material choices PP, HMPE, PVDF and PTFE. It handles corrosive liquids in combination with a certain amount of particles. Can be equipped with single or double mechanical seal.

**Model:** KR Sealpro. According to EN22858 / ISO2858

**Max flow:** 50 m<sup>3</sup>/h

**Maximum pressure:** 45 m

**Connection:** Flange DN15-50 or BSP 1-2 3/4"

**Sealing:** Single, double PTFE glass / SiC or SiC / SiC



HD-SERIES

Plastic process pump with close-coupled and long-coupled configurations designed for "back-pull-out", this removes the mechanical part without touching the pump housing and pipe system. The pumps handle flows up to 900 m<sup>3</sup>/h and both viscous and corrosive products.

**Model:** KR / TK. According to EN22585-ISO2858

**Max flow:** 900 m<sup>3</sup>/h

**Maximum pressure:** 90 m

**Connection:** Flange DN40-200

**Seal:** Single, double, quench, optional with

# Centrifugal Pumps | Mechanical seal options

Sanitary/Hygienic, Food & Pharmaceutical industry



## CTH | CPC | CTX H

AT

The CTH hygienic series is supplied with electro polished pump casing and internals. This series is specially designed for hygienic duties in food, beverage and pharmaceutical industries, where cleanability are important factors.

**Model:** CTH / CPC

**Max flow:** 500 m<sup>3</sup>/h

**Maximum pressure:** 150 mwc

**Connection:** DN32-150 SMS DIN11851, Flange EN1092, Tri-Clamp ISO 2852

**Seal:** Single, double TC / TC, ceramic / graphite, SiC / SiC and more. CPC = single, double quench/flush, inner outer, EHEDG according to DIN24960  
Wetted parts mirror polished to Ra<0.8 as standard (Ra<0.5 on request), external surfaces sand blasted to Ra<3.2.



## CPC-ZA | CTS

AT

The CPC-ZA is a self-priming pump, designed for applications in the food industry, with a strong focus on optimal cleanability, efficiency, low maintenance costs and a simple (dis) assembly. The CPC-ZA can be applied as cleaning return pump (CIP) or as discharge pump for tank lorries and milk collection trucks

**Model:** CPC-ZA

**Max flow:** 200 m<sup>3</sup> / h

**Maximum pressure:** 90 m

**Connection:** DN40-150 SMS DIN11851, Flange EN1092, Tri-Clamp ISO 2852

**Sealing:** Single, double quench/flush, inner outer, EHEDG according to DIN24960



## SP-LR

The SP-LR Sanitary Self-Priming Liquid Ring Pump is fully compliant with all relevant standard to be used for hygienic and sanitary applications. It is ideal for food, chemical and pharmaceutical industries that are pumping fluids that contain air or gas.

**Model:** SP-LR

**Design:** Cast acid resistant steel with several sealing variations

**Flow:** 50 m<sup>3</sup>/h

**Pressure:** 40 m

**Connection:** DN50-65 SMS DIN11851, Flange EN1092, Tri-Clamp ISO 2852

**Sealing:** Single, double quench/flush, inner outer, EHEDG according to DIN24960

## FT Filter



FT80

FT160

FT210

FTB210

FT355

FT Filters are developed to work in various applications, where process quality often relies on the bath filtration. As there are many hazardous substances used, it is of paramount importance to ensure these chemicals are handled in a safe way.

### Insert types



Wound Cartridge

Removal rating: 1-50 µm



FTL Cartridge (for FT210)

Removal rating: 10, 50, 100µm



Bag (for FTB210)

Removal rating: 0,5 µm-



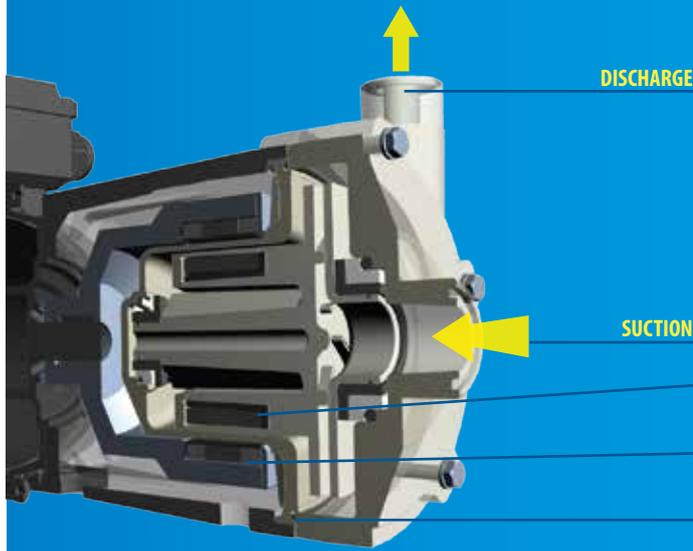
Filter Basket

This option allows the use of oil absorbing polyethylene tape, active carbon and ion exchange resin inserts filled.

Filter size	FT80	FT160	FT210	FT355	FT210
Insert type	STANDARD				BAG
Wound Cartridge (standard)	✓	✓	✓	✓	
Bag					✓
FTL Cartridge			✓		
Filter Basket			✓	✓	

# Magnetic Coupled Centrifugal Pumps

## Working principle



The power from the motor is transmitted to the centrifugal impeller by means of a magnetic coupling.

A so called isolation shell between the drive magnet and the impeller magnet separate the liquid side from the drive.

### IMPELLER MAGNET ASSEMBLY

Driven by the drive magnet assembly

### DRIVE MAGNET ASSEMBLY

Connected to the motor

### ISOLATION SHELL

(Rear housing) separating the liquid side from the atmosphere

## Features & Benefits

- ✓ **No leakage**  
safe working environment  
and environmental friendly
- ✓ **Economical operation**  
high degree of efficiency  
and no waste of product

- ✓ **Magnetic power transmission**  
no mechanical seal problems
- ✓ **Safe handling of hazardous fluids**  
seal less pump
- ✓ **Hermetic system**  
no poisonous or dangerous vapours



## CTM

CTM pumps are used in most industries where liquids are pumped. The pumps handle many types of low and normal viscous clean liquids such as chemical aggressive and toxic.

**Model:** CTM (PP, PVDF)

**Max flow:** 27 m<sup>3</sup> / h

**Max pressure:** 20 m

**Connection:** BSP 3/4"-2" or Flange

DN25-50

**Bushings:** PTFE / Ceramics or SiC





## ETN EVO | LINED MAGNETIC DRIVE

AT 

The ETN Evo is a versatile and reliable magnetically driven centrifugal pump designed for lower duties. With the option of Ethylene tetrafluoroethylene (ETFE) or Polypropylene (PP) lined wetted parts, the pump is ideal for a variety of different applications.

**Model:** ETN EVO. Enligt ISO 2858

**Max flow:** 56 m<sup>3</sup>/h

**Max pressure:** 35 m

**Connection:** UNI 1092–2 ANSI 150

**Bushings:** SSiC / Al2O3 / RunsafeSSiC



## ETS - SUB-ISO 2858

AT 

Mag drive pumps are an ideal choice for smaller applications with lower hydraulic requirements. Highly efficient, the ETS pump is suited to toxic and hazardous applications

**Model:** ETS Sub-ISO 28582858

**Max flow:** 28 m<sup>3</sup>/h

**Max pressure:** 40 m

**Connection:** UNI 1092–2 ANSI 150

**Bushings:** SSiC/Graphite



## UTN -L | UTN-BL ISO 2858 ISO 5199 - UNI 15783

AT 

Suitable for handling corrosive and hazardous liquids, the UTN line up of lined magnetic drive pumps are the right choice for the chemical, petrochemical and pharmaceutical industries.

**Model:** UTN B/L PFA. ISO 2858

**Max flow:** 150 m<sup>3</sup>/h

**Max pressure:** 60 m

**Connection:** UNI 1092–2 ANSI 150

**Bushings:** Carbon or Ceramic, Silicon Carbide, as well as Runsafe SSiC (SiC micro-crystallizing diamond coating)



## UTS/ UTS-B EVO

AT 

Metallic magnetic drive centrifugal pump giving the ability to transmit higher torques through the magnetic coupling, improving hydraulic performances of the pumps.

The modular design allows for far higher degrees of interchangeability throughout the ranges meaning reduced spares holding.

**Model:** UTS (B) AISI 316L

**Max flow:** 230 m<sup>3</sup>/h

**Max pressure:** 95 m

**Connection:** UNI 1092–2 ANSI 150

**Bushings:** SSiC/Graphite

# Vertical Pumps

The superior solution for a reliable fluid circulation & transfer.

CTV is a single stage vertical centrifugal pump that is simple but very reliable in duty. The pump is specialized for transfer and circulation of various liquids from containers, sumps and tanks. CTV is manufactured from PP (polypropylene), PVDF or stainless steel AISI 316L.



## Features & Benefits

- ✓ Maintenance free
- ✓ Leakage free and dry running safe
- ✓ Replacing self priming pumps

## CTV | PLASTIC & METAL

EN 10204



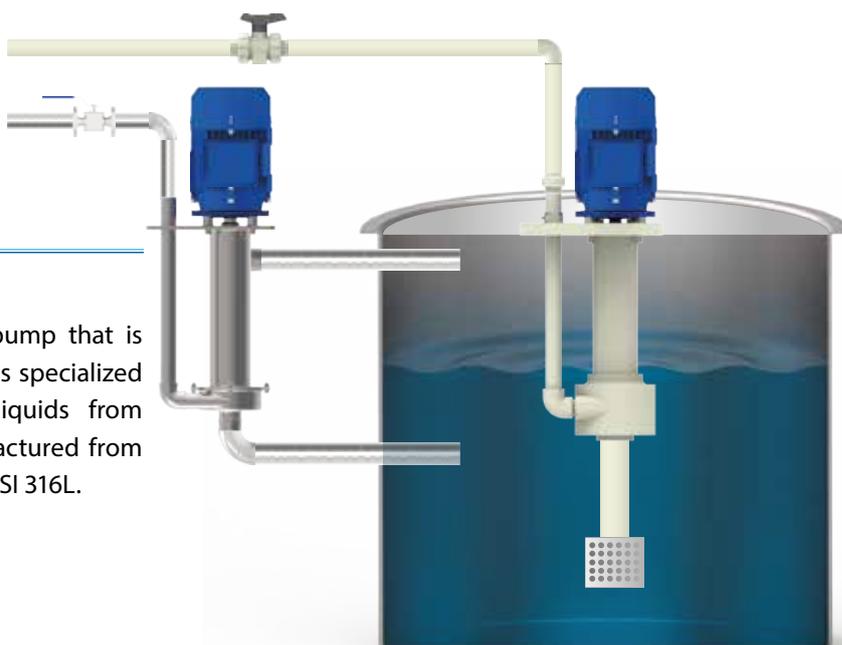
CTV is a single stage vertical centrifugal pump that is simple but very reliable in duty. The pump is specialized for transfer and circulation of various liquids from containers, sumps and tanks. CTV is manufactured from PP (polypropylene), PVDF or stainless steel AISI 316L.

**Model:** CTV

**Material:** PP, PVDF, SS AISI 316 L

**Max flow:** 20 m<sup>3</sup>/h

**Maximum head:** 31 m



CTV is commonly installed in surface treatment baths, circulating through filter and further to nozzle ramps.

### CTV pumps in PP & PVDF

- » CTV 25-9: 12 m<sup>3</sup>/h
- » CTV 25-10: 14 m<sup>3</sup>/h
- » CTV 25-11: 15.5 m<sup>3</sup>/h
- » CTV 25-11.5: 16.0 m<sup>3</sup>/h
- » CTV 32-8.5: 13 m<sup>3</sup>/h
- » CTV 32-10: 17 m<sup>3</sup>/h
- » CTV 32-12.5: 19 m<sup>3</sup>/h

### CTV pumps stainless steel

- » CTV 20-9: 12 m<sup>3</sup>/h
- » CTV 25-9.8: 17 m<sup>3</sup>/h
- » CTV 40-12.5: 19 m<sup>3</sup>/h
- » CTV 40-12.5: 34 m<sup>3</sup>/h
- » CTV 40-13.5: 20 m<sup>3</sup>/h

## VERTICAL CANTILEVER SUMP PUMPS WITH NON-CLOGGING VORTEX AND CHANNEL IMPELLER

The pump body is immersed into the liquid, whilst the motor is mounted above the plate, keeping it away from the liquid. Oversize heavy duty ball bearing are supplied with grease fittings and located above the mounting plate out of the corrosive area. A key feature of the cantilever pumps is that there are no bearings or bushings submerged therefore the pump is capable of handling solids, even abrasive types without external flushing.

**Applications:** Liquids contained a lot of particles or long-fiber sludge, drainage, oily water sumps, tank transfer, ground and gray water, etc.

**Max flow:** 500 m<sup>3</sup> / h

**Maximum pressure:** 0.3-1.5 m

**Pump length:** 1.8 m, can also be fitted with diving pipes for deeper tank emptying



### Features & Benefits

- ✓ No sealing or bushing on the liquid side
- ✓ Can handle constant dry running
- ✓ Few wear parts
- ✓ Handles temperatures up to 500°C

### Installation example



## VERTICAL - CLOSED, OPEN, CHANNEL AND VORTEX IMPELLER

Vertical immersible sump pump (ISO 5199 norms) line-shaft with bearing bushes

Used in all industrial applications, refining, oil and gas production, chemical, pulp & paper, and water facilities. Typical applications include: drainage sumps, oily water sumps, tank transfer.

**Pump length:** up to 6 meters

**Mounting plate:** rectangular, circular or according to customer's specifications PTFE LIP SEAL or CARTRIDGE SEAL for vapor proof construction or pressurized designs.

**Materials:** Cast Iron GJL250 or AISI 316. Upon request AISI 304, AISI 904, duplex, superduplex.

**Bearing bush materials:** bronze, rubber, RULON and silicon carbide

Suction strainer and suction extension on request.

**Max flow:** 2400 m<sup>3</sup>/h

**Max pressure:** 140m



# Drum Pumps

Electric or air operated drum and container pumps are lightweight, handy and very powerful devices for an economical and safe filling and transferring of thin to medium viscous media, neutral or aggressive, non-flammable or flammable substances out of drums and containers.



## JP-132

The lightweight, handy and powerful device can be used as drive for the pump tubes of the laboratory and drum pumps and is useful in this combination for many thin fluid, neutral, aggressive and non-flammable media

AT 



## JP-132

Compressed air operated motor specially designed for handling flame sensitive liquids in flammable environments. ATEX-rated with tubes in SS.

**BEST  
-SELLER**



## JP-280

The motor housing made of polypropylene ensures a high chemical resistance when aggressive vapours of acids and alkalis are present.



## ACCESSORIES

We offer nozzles, hoses, IBC adapters, barrels and containers, flow meters, etc.



Type	JP - 132	JP - 160	JP - 280	JP - 480 (ATEX)	JP - AIR 1
<b>Motor</b>	450 W	460 W	825 W	825 W	300 W
	230 V, 50/60Hz	230 V, 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	At max. 6 bar operating pressure
<b>Protection class</b>	IP24	IP24	IP24	IP55	-
<b>Max flow</b>	49 l/min	82 l/min	112 l/min	112 l/min	78 l/min
<b>Max pressure</b>	10 m	9 m	16 m	16 m	9 m
<b>Max viscosity</b>	400 cP	400 cP	1000 cP	1000 cP	400 cP
<b>Pipelines ø</b>	ø 32 mm	ø 41 mm			
<b>Suction tube length</b>	700, 1000, 1200, 1500 and 1800 mm (we can also supply special length as required)				

# Filter Press Pumps

The world's smartest filter press pumps for supplying filter press and similar applications with high pressure and abrasive thick sludge.

## Features & Benefits

-  Simple operation principle
-  Pump stops after the end of the pressing period
-  Easy installation
-  Solid construction



### AODD FILTER PRESS PUMPS



EN 10204



High pressure pump for supply of filter press system. The higher pressure is obtained by an external booster doubling the incoming air pressure.

The unit is completely self-regulating and adjusts the speed to the degree of filling of the press. When the press is full, the pump stops.

**Model:** TF

**Max flow:** 400 l/min

**Max pressure:** 16 bar depending on model



### STEINLE FILTER PRESS PUMPS

The STEINLE pump is a single or double acting piston diaphragm pump with a hose as the diaphragm. The liquid transferred to the filter press requires exceptionally high performance pumps. They have to supply large quantities of liquid into the empty press as well as small quantities at high pressure when the filter press is filled. This pressure must be maintained for a long period of time.

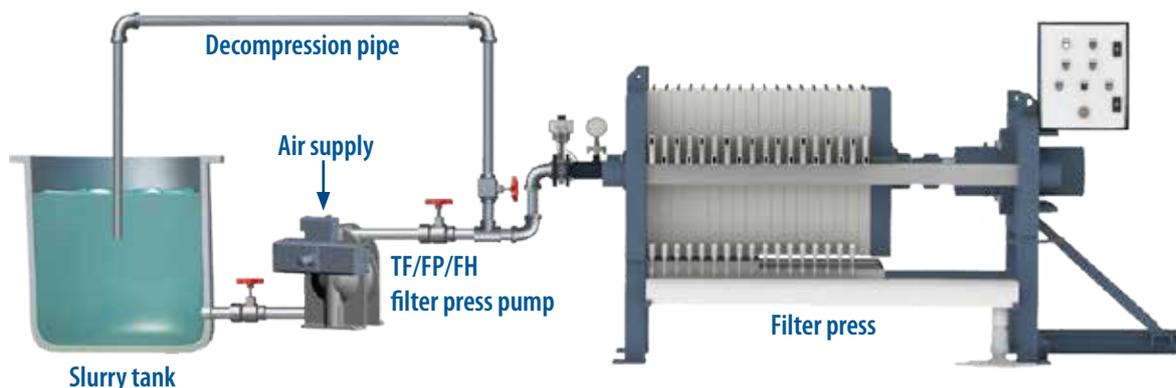
**Model:** FP / FH

**Material:** PP, Steel, SS

**Max flow:** 18 m<sup>3</sup>/h

**Max pressure:** 24 bar

**Control voltage:** 24VDC or 230VAC



# Valves

We offer hygienic and industrial valves with manual or pneumatic control



## SINGLE SEAT DOUBLE SEAL MIXPROOF VALVE (870 SERIES)

Single Seat Double Seal valves are used in automated piping systems where product mixing from pressure hammer or seat failure is a concern. SSDS valve is designed for safe media separation in hygienic process applications.

**Sealing material:** EPDM, HNBR, TFM diaphragm

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar; 5 bar

**Supply pressure for air actuator:** 5 - 8 bar

**Sterilisation temperature:** 135°C



## DOUBLE SEAT MIXPROOF VALVE (900 SERIES)

The valve has two valve stems and two valve seats for ultimate separation of two products. The seat lifting function and separate spraying of the leakage chamber ensures a complete and reliable cleaning.

**Sealing material:** EPDM/PTFE, HNBR/PTFE, FPM/PTFE, SILI-CON/PTFE

**Size:** DN25 - DN150, 1" - 6"

**Max. line pressure:** 10 bar

**Supply pressure for air actuator:** 6 bar

**Sterilisation temperature:** 135°C



## BALL VALVE (50 & 51 SERIES)

The valve is designed to maintain a full flow rate, with a minimum pressure drop and it is fully drainable. A Bottom entry, precision machined stem with a live loaded PTFE thrust washer ensures a smooth rotation at various temperatures and pressure conditions. Purge ports are provided on the valve body for SIP / CIP applications.

**Available Sizes:** 1", 1 1/2", 2", 2 1/2", 3", 4"

### Options:

- » Automatic operation by vertical or horizontal pneumatic actuator.
- » Electrical control unit with micro switches or proximity switches and solenoid valve for remote operation.
- » End connections : Sanitary Clamp, Butt - Weld, I-Line, Extended Butt Weld (for high purity applications), or others on request



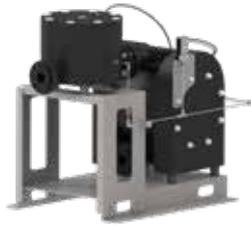
## SPRAY BALL (SERIES 017)

Spray balls are made from 316L stainless steel, are highly polished and have 2.5" and 3.5" diameter balls. They come standard with a slip-pin connection for 1" and 1.5" size tubing.

Type of Valve	Series	Sizes
Butterfly Valve	100, 101	ISO 1/2" to 8"; DN15 to DN200
Ball Valve	51, 52, 53, 54	ISO 1/2" to 4"; DN15 to DN100
Check Valve	63, 64	ISO 1/2" to 4"; DN15 to DN100
Plug Valve	11	ISO 1" to 4"; DN25 to DN100
Shut Off & Divert Valve	800, 801	ISO 1" to 4"; DN25 to DN100
Single Seat double Seal & Double Seat Mix Proof Valve	870, 900	ISO 1" to 4"; DN25 to DN100
Flow Control Valve	62	ISO 1" to 2"; DN25 to DN50
Sampling Valve	33, 34, 35, 36	ISO 1/2" to 1"; DN15 to DN25
Sight Glass	95	ISO 1" to 4"; DN25 to DN100
Filter & Strainer	24, 25	ISO 1" to 4"; DN25 to DN100
Level Gauges	338, 347	ISO 3/8" to 1"; DN20 to DN25

# Customised Flow Systems

Tapflo Solutions™ delivers ready-made functions and systems with peripherals such as automation, flow meters, valves and more. Our group of talented designers and engineers are happy to produce the features you require.



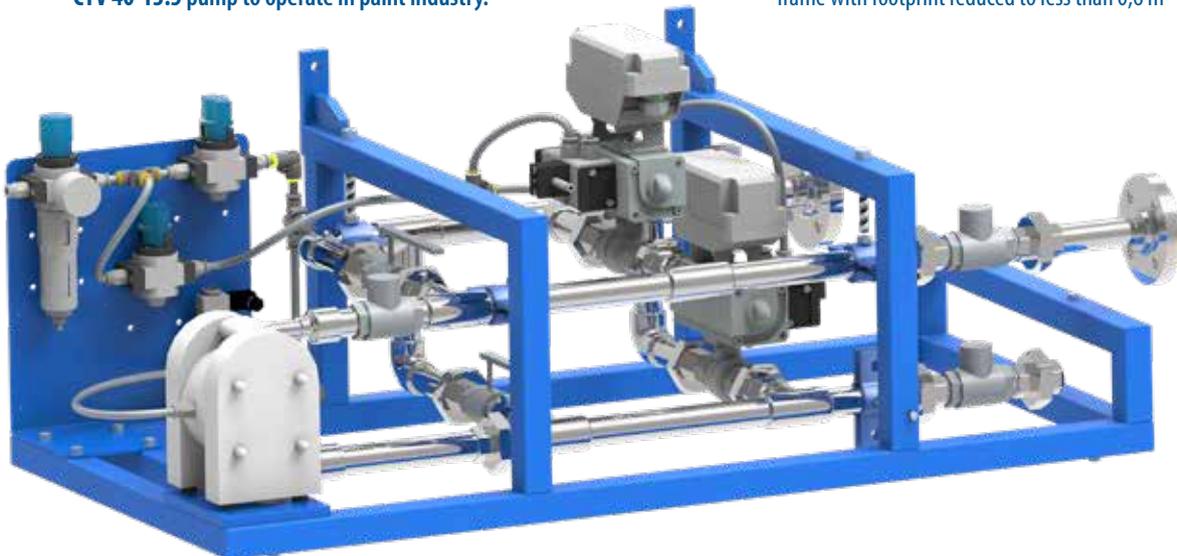
**TXB400+DTBX400:** integrated with pneumatic Diaphragm Failure Monitoring System (PDFM).



Mobile mixing & unloading tank Tapflo CTV 40-13.5 pump to operate in paint industry.



Tapflo T800+DT800 built on one support frame with footprint reduced to less than 0,6 m<sup>2</sup>



Complex unloading solution, that is successfully used to unload barrels containing various chemicals

**Tapflo offers integrated solutions as possibility to apply standard devices in non-standard applications.**

Combining different flow components into one complex unit is an opportunity to suit individual customers' needs, that are related to:

- » Required equipment & functionality
- » Available space
- » Position of connecting flanges
- » Mobility

# TAPFLO (PTY) LTD



## South Africa

Unit 24, Gate 2, Ivy Park  
3 Ivy Road, Pinetown, KZN

Tel: +27 (0)31 701 5255

Fax: +27 (0)31 701 5432

E-mailaddress:

sales@tapflo.co.za

*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 in the pump market.*

*Since inception, 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 has not changed - we are still a family company.*

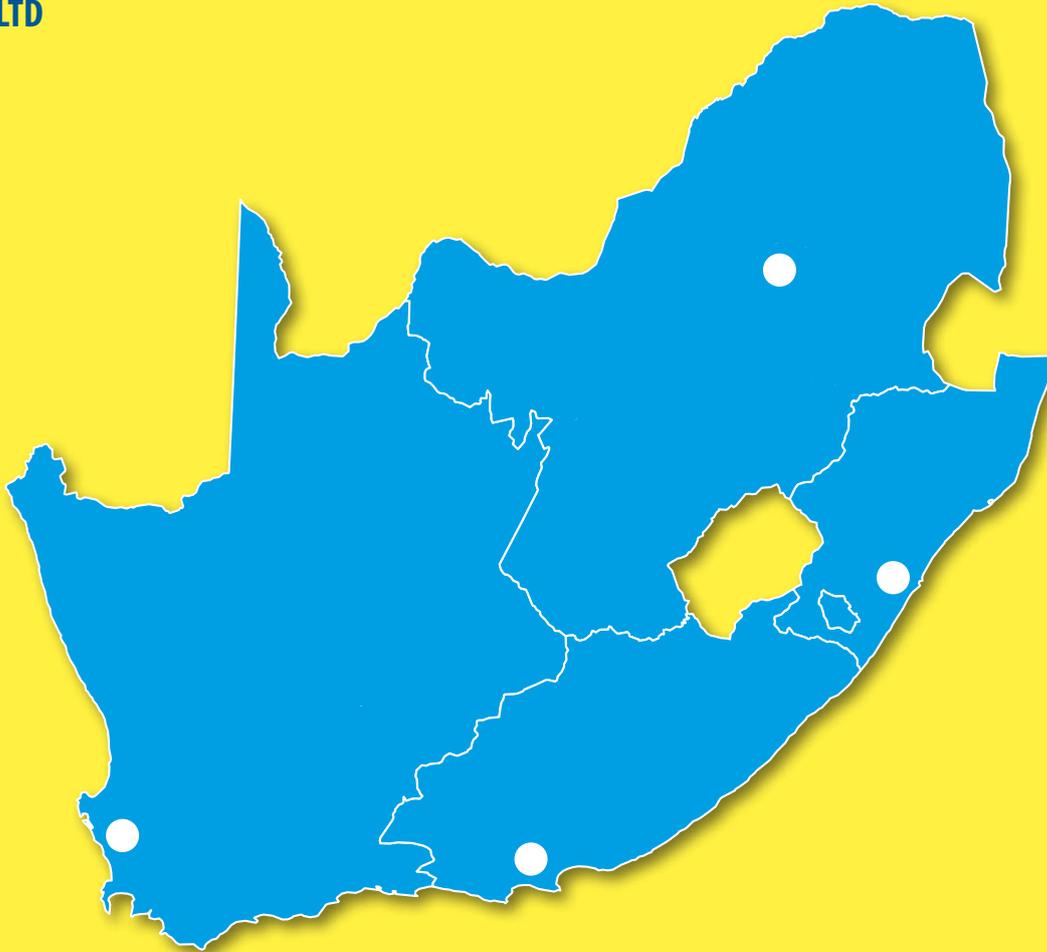
## Tapflo (PTY) LTD is part of the international Swedish Tapflo Group

### Tapflo products and services are available worldwide.

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

AUSTRALIA | AUSTRIA | AZERBAIJAN | BAHRAIN | BELARUS | BELGIUM | BOSNIA | BRAZIL | BULGARIA | CANADA | CHILE | CHINA | COLOMBIA | CROATIA | CZECH REPUBLIC | DENMARK | ECUADOR | EGYPT | ESTONIA | FINLAND | FRANCE | GREECE | GEORGIA | GERMANY | HONG-KONG | HUNGARY | ICELAND | INDIA | INDONESIA | IRELAND | ISRAEL | ITALY | JAPAN | JORDAN | KAZAKHSTAN | KUWAIT | LATVIA | LIBYA | LITHUANIA | MACEDONIA | MALAYSIA | MEXICO | MONTENEGRO | MOROCCO | NETHERLANDS | NEW ZEALAND | NORWAY | POLAND | PORTUGAL | PHILIPPINES | QATAR | ROMANIA | RUSSIA | SAUDI ARABIA | SERBIA | SINGAPORE | SLOVAKIA | SLOVENIA | SOUTH AFRICA | SOUTH KOREA | SPAIN | SWEDEN | SWITZERLAND | TAIWAN | THAILAND | TURKEY | UKRAINE | UNITED ARAB EMIRATES | UNITED KINGDOM | USA | UZBEKISTAN | VIETNAM

## Tapflo (PTY) LTD



[www.tapflo.co.za](http://www.tapflo.co.za)

Tapflo® is a registered trademark of Tapflo AB. All rights reserved.

Information in this document is subject to change without notice. Reproduction in any manner without written permission of Tapflo Group is forbidden. Tapflo Group reserves the right to make changes in product design, or detail, and to discontinue any product or material without notice.