

tapflo®

# HYGIENIC, CHEMICAL & PETROCHEMICAL INDUSTRIAL PUMPS

edition 2017 rev 1



» All about your flow

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

# Industrial Volumetric Pumps



## AIR OPERATED DIAPHRAGM PUMPS AT

Pneumatic pumps for aggressive, viscous or abrasive fluids. Simple operation, dry running without damage.

Material: PE, PTFE, ALU, Cast iron and Stainless steel 316L

Flow 0-840 l/min

Pressure: 8 bar (16 bar with booster)



## GEAR PUMPS AT

Pumps for transportation and accurate dosing of low and high viscous liquids 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.

Material: Cast iron, Nodular Cast Iron, Carbon Steel and Stainless steel 316

Flow rate: max 250 m<sup>3</sup>/h

Max differential pressure: 16 bar



## TWIN SCREW PUMPS AT

Constant pulsation-free flow together with an high suction capacity, ie, very low NPSH rate. in marine and shipbuilding, petrochemical (design acc. to API676 available) and chemical Industries. Self Priming without any auxiliary devices. Low operating speed. Reverse flow by operating in reverse rotation and keep constant capacity.

Materials: cast Iron, high grade alloys(titanium), hasteloy, duplex, stainless steel

Max flow rate: 1700 m<sup>3</sup>/h

Max pressure: 30 bar



## DOSING PUMPS

Pumps for accurate dosing of chemicals and other additives. Different models with varying degrees of integrated control. Special models with a pulsation-free flow.

Material: PVC, PVDF and Stainless steel 316

Flow rate: 0-80 l/min

Pressure: 50 bar



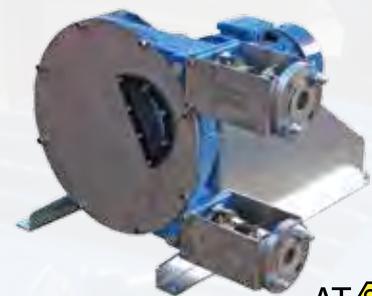
## PROGRESSIVE CAVITY PUMPS AT

Pumps for handling high viscosity liquids with high solids content. Good suction, pulsation free flow and gentle handling of fluid. Capable of handling larger particles and can be equipped with enlarged inlet with hopper.

Material: Cast iron, Stainless steel 304 and 316

Flow rate: max 400 m<sup>3</sup>/h

Pressure: max 48 bar



## HOSE PUMPS AT

Pumps for transport, dosing and emptying of viscous fluids with high abrasive solids content. Excellent suction, gentle handling of fluid and reversible.

Capable of handling large particles, high pressures and dry running.

Hose Materials: Natural Rubber, NBR, EPDM etc.

Flow rate: max 150 m<sup>3</sup>/h

Pressure: max 15 bar



## VANE PUMPS

AT 

Pumps for transfer of fluids with a wide viscosity range. Wear-compensating design. They are Self Priming and have an High Suction Lift.

Material: Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Duplex Stainless Steel and Special Alloys

Flow rate: max 45 m<sup>3</sup>/h

Max. differential pressure: 9 bar



## FILTER PRESS PUMPS

Pneumatic self-regulating pump, especially designed for feeding sludge to filter press applications. Very durable pump, capable of dry running.

Material: Steel, PP

Flow 0-18 m<sup>3</sup>/h

Pressure: max 24 bar



## HOLLOW DISC PUMPS WITH MECH SEALS OR AT WITH MAG DRIVE

Hollow disc pumps are self priming, reversible, can handle high temperature and abrasive media. Pumps for loading, transferring petroleum products, transfer of paints, inks glue and acids. Transfer of oil, asphalt and liquid fertilizers.

Material: standard in Cast Iron, on request: in Alloys, like Inconel®, Hastelloy®, Alloy 20 or Duplex / Super Duplex

Flow rate: max 100m<sup>3</sup>/h

Max pressure: 8 bar up to 20 bar in special execution

# Other



AT 

## DRUM PUMPS

Pumps for efficient emptying of barrels, drums or containers. Handy size and low weight makes it easy and safe to handle. Also available as vertical eccentric screw pump for viscous fluids.

Material: PP, PVDF, ALU and Stainless steel 316

Flow 0-200 l/min

Head: 0-14 m



## FILTER UNITS

Bag and cartridge filters for filtration of inorganic and organic media.

Material: PP, PVDF, Stainless steel



AT 

## MIXER AND IBC MIXERS

Static mixer for in-line installation and mixers for IBC containers. Cost effective solution for mixing chemicals, paints and flocculant to the correct consistency and quality during preparation, storage or production.

Material: PVC, PVDF, Ductile iron, Duplex, Stainless steel 304L and 316L

# Industrial Centrifugal Pumps



## METALLIC CENTRIFUGAL PUMPS WITH MECHANICAL SEALS OR GLAND PACKING

Built in compliance with DIN 24256 ISO 2858-5199. Designs with closed, open, vortex or multi channel impeller. High efficiency and low NPSH.

Material: AISI 316 SS (CF8M), G25 Cast Iron, Duplex steel SAF 2205, Super Duplex Steel SAF 2507, Stainless Steel AISI 304L, SANICRO 28, Hastelloy, Monel, Durimet and other alloys on request.

Flow rate: max 4000 m<sup>3</sup>/h  
Max head: 220 m



## PETROCHEMICAL CENTRIFUGAL PUMPS ACC. TO API610 AND API685

Available types: OH1, OH2, OH3, BB2, BB5, VS4. Available in a wide range of materials including all API 610 constructions and custom application needs. Seals and sealing systems in accordance to API 682 Std. Engineered Hydraulics: Dense hydraulic coverage to better match your process for efficiency and reliability.

Max system pressure: 100 bar ( 600 lbs) Higher pressure version available on request.  
Maximum flow rate: 4000 m<sup>3</sup>/h  
Max head: 1400 m



## METALLIC CENTRIFUGAL PUMPS WITH MAG DRIVE

Solution to pump aggressive, explosive and toxic liquids, hydrocarbons, heat transfer liquids and liquids difficult to seal. Capacity and outer dimensions according to DIN 24256/ISO 2858. Single stage volute casing pumps with closed impellers, back-pull-out design, with end suction and top discharge flange.

Material: CF8M Pump Casing & Impeller High quality casting components. Other materials: Hastelloy® C276, Incoloy®825, Duplex, Titanium, or others available on request

Flow rate: max 4000 m<sup>3</sup>/h  
Max head: 155 m



## VERTICAL PUMPS

Vertical sumps and seal less centrifugal pumps for clean liquids such as oil, water, chemicals and contaminated fluids containing abrasive particles. Is suitable for circulation or transportation of liquids from tank or pit.

Material: PP, PVDF, PFA, PTFE and Stainless steel 316L  
Flow rate: max 1000 m<sup>3</sup>/h  
Head: max 100 m



## PLASTIC AND LINED CENTRIFUGAL PUMPS WITH MAG DRIVE

Ideal for pump highly corrosive, difficult to seal and high purity chemicals. A wide range of pumps covers the different performances. Available also acc. to ISO 2858 -ISO 5199.

Material: injection moulded designs, made of GFR PP and CFR PVDF or PFA lined design  
Maximum flowrate: 140 m<sup>3</sup>/h  
Max head: 63 m

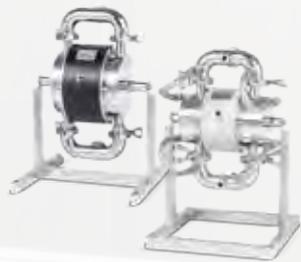


## PLASTIC CENTRIFUGAL PUMPS WITH MECHANICAL SEALS

Centrifugal pumps for clean liquids such as oil, water, chemicals and other liquids containing contaminants or abrasive particles.

Material: PP, PVC, PVDF, PTFE, PFA  
Max flow rate: max 600 m<sup>3</sup>/h  
Head: max 90 m

# Hygienic Pumps



AT

## DIAPHRAGM PUMPS

Pneumatic hygienic pump for low and high viscous liquids with solids content. Simple operation, dry running without damage.

Material: Stainless steel 316L

Flow 0-840 l/min

Max. pressure 8 bar



AT

## CENTRIFUGAL PUMPS

Pumps with robust construction and high efficiency, designed to meet the highest hygiene standards.

Material: Stainless steel 316L

Flow rate max 90 m<sup>3</sup>/h

Head: max 80 m



AT

## ROTARY LOBE AND CIRCUMFERENTIAL PUMPS

Pumps for gentle handling of viscous fluids and products with fragile particle content. Designed to meet the highest hygiene standards.

Material: Stainless steel 316L, duplex Stainless Steel

Flow rate: max 110 m<sup>3</sup>/h

Max. pressure 15 bar (Special up to 25 bar)



## HYGIENIC TWIN SCREW PUMPS

Pumps for gentle handling of viscous fluids and products with fragile particle content. Self-priming pump with pulsation free flow that can handle high pressures. Designed to meet the highest hygiene standards.

Material: Stainless steel 316L

Flow rate: max 140 m<sup>3</sup>/h

Max. pressure 16 bar (Special up to 25 bar)



AT

## PROGRESSIVE CAVITY PUMPS

Pumps for handling high viscosity liquids with high solids content. Good suction, pulsation free flow and gentle handling of fluid. Capable of handling larger particles and can be equipped with enlarged inlet with hopper. Designed to meet the highest hygiene standards.

Material: Stainless steel 316L

Flow rate: max 110 m<sup>3</sup>/h

Max. pressure 48 bar



## DOSING PUMPS

Pumps for accurate dosing of chemicals and other additives in the food and pharmaceutical industry. Different models with varying degrees of integrated control. Special models with a pulsation-free flow. Designed to meet the highest hygiene standards.

Material: Stainless steel 316L

Flow 0-45 l/min

Max. pressure 10 bar



# Hygienic Pumps



## SINE PUMPS

Ideal for sauces, syrups and fillings. Excellent suction capability (to max 0.9 bar). Low shear and gentle product handling, very low pulsation CIP and SIP possible.

Materials: Stainless Steel 316L, Scraper: Various SOMATECH materials with FDA approval; Liners: in various SOMATECH materials with FDA approval  
Flow rate: max 90 m<sup>3</sup>/h  
Max pressure: 15 bar



## BLENDING | HOMOGENISER PUMPS

Ideal to blend, dissolve, emulsify and homogenize media. Fully CIP ability. High shear rate.

Material: Stainless Steel  
Flow rate: 50 m<sup>3</sup>/h  
Pressure: max 4 bar



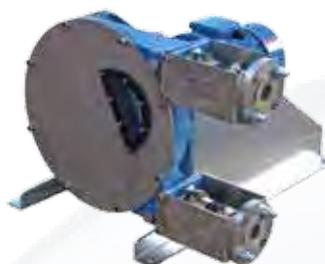
## FLEXIBLE IMPELLER PUMPS

Gentle product transfer. Popular in dairy industry. Simple, low maintenance transfer.

Material: Stainless Steel  
Flow rate : max 400 l/min  
Max pressure: 4 bar



# Food Grade & Pharmaceutical



## FOOD GRADE HOSE PUMPS

Capable of transferring media with high solids content. Gentle product handling and able to pump very abrasive media. High suction lift with dry running ability. CIP execution with collapsed hoses.

Flow rate: max 150 m<sup>3</sup>/h  
Pressure: max 15 bar



## FOOD GRADE GEAR PUMPS

A combination of strong design with small or large clearances for pumping low and high viscous liquids. Self-priming pumps with continuous flow that can handle high pressures.

Material: Cast iron, Stainless Steel 316  
Flow rate: max 110 m<sup>3</sup>/h  
Max differential pressure: 16 bar



## PHARMACEUTICAL PUMPS

This pump serves the biotech- and pharmaceutical industries in numerous applications.

Unique USP VI approved (United States Pharmacopoeia)  
Flow rate: max 400 l/min  
Pressure: max 15 bar

## All about your flow

Tapflo is a leading pump manufacturer with the ambition to provide a wide range of premium products for various industrial applications. We focus on delivering the best fluid processing solutions and support on all stages of the process, worldwide.



Tapflo is an independent, Swedish, family owned, manufacturer and global supplier of air operated diaphragm pumps, centrifugal pumps and other industrial process equipment. The company was founded in Kungälv, Sweden in 1980 and has since then been working with design and manufacture of thermoplastic, metal and sanitary series diaphragm pumps and also with complete range of centrifugal pumps and industrial equipment. After years of dynamic development the company evolved into Tapflo Group with worldwide operations. Tapflo Group is represented by own companies and independent distributors all over the world on 6 continents.



### Service & Maintenance

Professional service is a natural part of our commitment to the customer. We offer an on-site service as well as at our service centres.

### Customized solutions & systems

We deliver complete systems with peripherals such as trolleys, tanks, hoses, valves and fittings. Having our own production lines allows us to offer solutions that are even more sustainable and efficient.



### Stock

In our warehouses we stock a wide range of different pump models and spare parts for immediate delivery.

### Training

We offer customized training in pump technology, service and preventive maintenance. Please contact us for more details!



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## 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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## Tapflo (PTY) LTD

