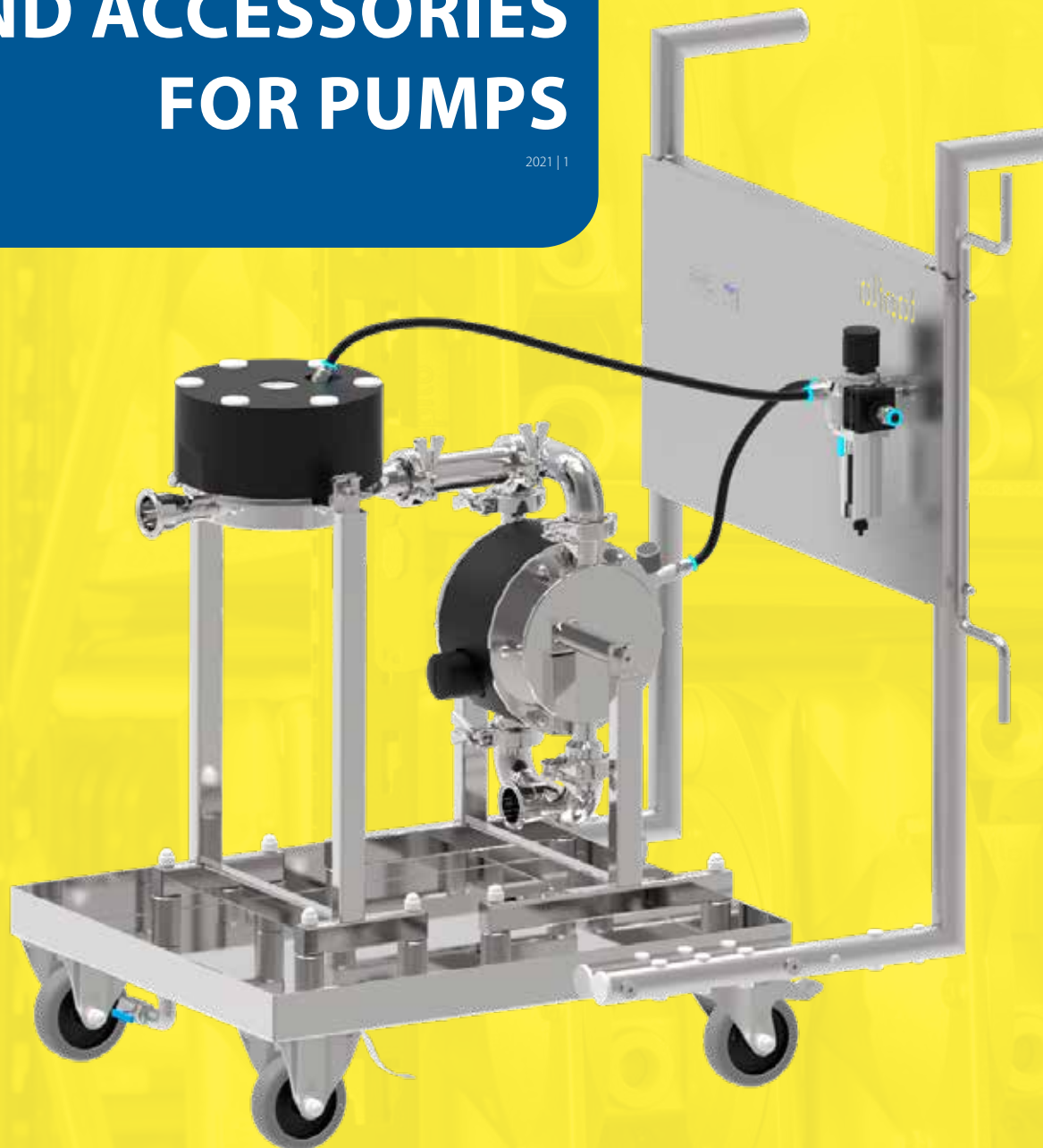


tapflo®

# SYSTEMS AND ACCESSORIES FOR PUMPS

2021 | 1



» All about your flow™

[www.tapflo.com](http://www.tapflo.com)

## » All about your flow™

*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.

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.

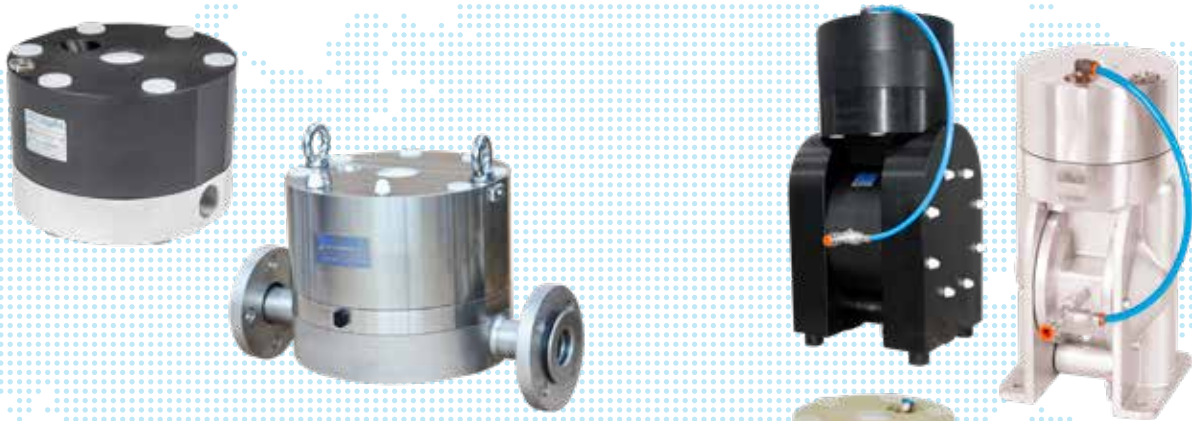
### Quality

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.

# Active Pulsation Dampeners



## DT ACTIVE PULSATION DAMPENERS



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

**Material:** PE, PTFE, Aluminium, Stainless Steel 316

**Max. pressure:** 16 bar



# Air Treatment Units



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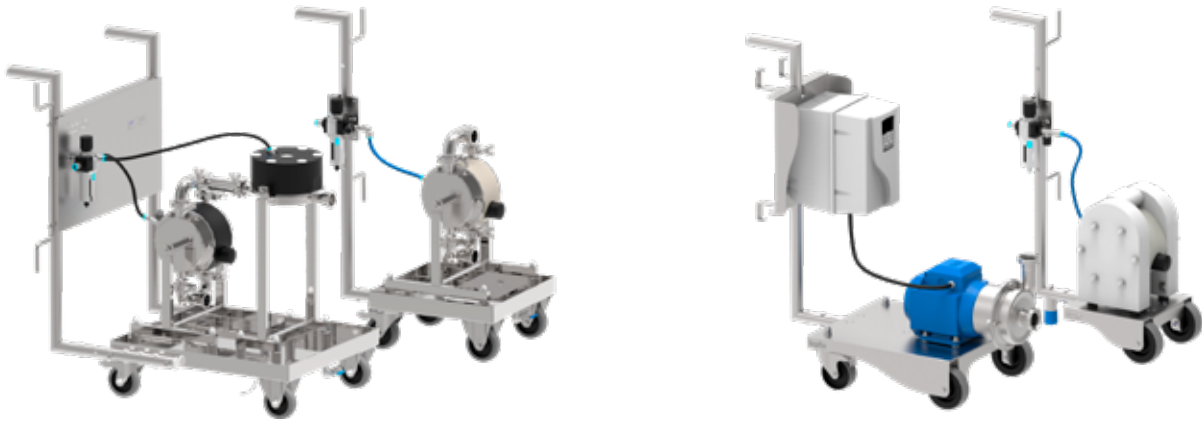
## AIR FILTER REGULATOR | NEEDLE VALVE | WATER SEPARATOR & ON-OFF VALVES

There are many benefits of using an individual filter regulator and needle valve for an AODD pump. **Filter-regulator** provides right air quality and optimum pressure while **needle valve** controls pumps speed, saving energy and increasing lifetime of pump wearing parts.

**Water separator** is a dedicated device to remove water from air supply. It is used when filter-regulator is unable to filter it efficiently.

**On-off valves** allows to control the pump automatically (solenoid actuated valve) or manual (manually actuated). The equipment is available in various combinations as complete kits with wall mounts and pneumatic fittings.

# Mobile Pump Units



## HYGIENIC & INDUSTRIAL TROLLEYS

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The portability of the units allows easy movement to various locations. This means almost limitless application. Mobile pump units are available in both hygienic and industrial designs. The great advantage is the compatibility with the majority of Tapflo pumps range.

Moreover, it is possible to compose the trolley to your own needs by using a number of accessories such as air preparation units, ON-OFF switches, frequency inverters or hose holders.

# Baseplates & Wall Supports



## UNIVERSAL BASEPLATES

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## WALL SUPPORTS

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Universal Baseplates and Wall Supports are designed to enable stable and easy installation of delivered devices. Thanks to these accessories, our products can be easily mounted on the floor, supporting construction or on the wall.



# Sound & Thermal Insulating Cover



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## HYGIENIC COVERS

The stainless steel hygienic covers are dedicated to use with Tapflo AODD Pumps. The cover boxes are robust, rigid and can be closed tightly and firmly. Lined up with a dedicated insulation mat, hygienic covers are a perfect solution reducing operation noise level and insulating pumps from ambient thermal conditions.



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## INDUSTRIAL COVERS

Industrial covers from Tapflo combine user-friendly design with high quality materials creating a durable solution that will operate for years in almost every application. The covers are tailor-made to fit a wide range of Tapflo pumps and can be easily mounted without any tool.

# Tapflo Tank Units



## TAPFLO TANK UNITS

Tapflo Tank Units are dedicated to every branch of industry where liquids are to be stored and transferred or dosed. This solution based on Diaphragm Pump operation is suitable for handling almost any kind of liquid whether it is viscous, chemically aggressive or with solids. Various sizes of tanks and robust pumps in multiple executions are available together with additional equipment. This is how we created the most simple and versatile pumping solutions on the market.

# Soft-starts Valve & Pneumixer



## SOFT-STARTS VALVE

An abrupt opening of the compressed air supply to the pump, e.g. by a solenoid valve, may cause pump damage or unwanted pressure peaks in the pipe system. The soft-start valve connected in compressed air supply line, slowly opens itself to start pump gently.



## PNEUMIXER

The Peumixer is an additional equipment to operate with an AODD pump. It is used in industries where raw materials, stored in drums and containers, settle out overtime and need to be mixed prior to use. The device shorten time waste, mess and expense by eliminating a need for pumping to separate mixing vessel. In the mixing mode the discharge valve is closed and the recirculation valve is open to allow the product to circulate in the container.

# Guardian Systems



## 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 fluid pressure increases above or falls below the set point, depending on configuration.

## Applications of the Guardian systems

- » Pneumatic Diaphragm Failure Monitoring (PDFM)
- » Pneumatic Dry Run protection (PDHR)
- » Pneumatic Dead Head Stop (PDHS)
- » Pneumatic Dead Head & Restart (PDHR)

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### PDFM (DIAPHRAGM FAILURE PROTECTION)

Barrier pumps (TB) have an additional set of diaphragms used to backup the primary diaphragms. In case of a breach the liquid remains inside the pump, instead of leaking out through the air exhaust.

The Guardian monitors the pressure between the primary and secondary diaphragms, stopping the pump if the pressure increases above the set point.

Benefits:

- Safe & reliable operation when pumping hazardous liquids
- Saves expensive products



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### PDRN (DRY RUN & STOP)

The Guardian monitors the fluid discharge pressure of the pump, stopping it if the pressure falls below the set point, caused by a lack of media on the suction causing air to be ingested into the pump.

Benefits:

- Extend the life of pump's wearing parts
- Reduced consumption of compressed air



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### PDHS (DEAD HEAD & STOP)

The Guardian monitors the fluid discharge pressure of the pump, stopping it if the pressure rises to the set point, caused by a closed valve or over pressure in the discharge line.

Benefits:

- Increased life of the pump's wearing parts
- Safe & reliable operation



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### PDHR (DEAD HEAD & RESTART)

The Guardian monitors the fluid discharge pressure of the pump, stopping it if the pressure rises to the set point, caused by a closed valve or over pressure in the discharge line. When the pressure falls below the set pressure, the pump automatically restarts.

Benefits:

- Increased life of the pump's wearing parts
- Safe & reliable operation



## EDRH (ELECTRONIC DRY RUN AND DEAD HEAD PROTECTION SYSTEM)

Electronic Dry Run and dead Head protection is a device that guarantees reliable, effective and safe operation of the AODD pumps. At the same time, the consumption of the compressed air is reduced, which means lower operating cost.

Benefits:

- Elongates the lifetime of the pump's diaphragms
- Turns off the pump in case of the accomplished task (i.e. unloading of a tank)
- Limits the discharge pressure
- Indicates the pressure values

# Pneumatic Level Control



## TPUK-LM (MANUAL START)

The system controls an AODD pump that begins pumping when the system is manually started and automatically stopping when the liquid surface is detected at the dip tube. The system can be configured in either 'filling' or 'emptying' modes.



## TPUK-LA (AUTOMATIC START)

Modified version of TPUK-LM. The system automatically starts and stops the pump. The system can be configured in either 'filling' or 'emptying' mode.



# Pneumatic Batch Control



## TPUK-BP (STROKE COUNTING)

The Pneumatic Batcher is a fully pneumatic predetermining counter system which records pump strokes as a series of low-pressure pulses from the air exhaust of an AODD pump, stopping the pump once a pre-set number of strokes have been recorded, thus controlling the volume of product dispensed by the pump.



## TPUK-BT (TIME BATCH)

The Pneumatic Timed Batcher is a fully pneumatic run time controller for use with an AODD pump. The pump can be started locally or remotely, stopping automatically once the set time has elapsed, thus controlling the volume of product dispensed by the pump.

# Other Pneumatic Systems



## TPUK-PS1 (PRESSURE SWITCH)

TPUK PS1 Low-Pressure VFC Pressure Switch converts pneumatic signals received from an AODD pump exhaust into electrical one, that can be used to feedback into an electrical control system such as a PLC or BMS. It can also be used to monitor the stroke frequency of the pumps which therefore provides insight into the operation and health of the pump and enabling a preventative maintenance regime.



## TPUK-LC (LIFE COUNTER)

Life Counter monitors the exhaust of an AODD pump. The pump strokes are displayed on its internal LCD on recorded in the memory. Compact, easy to use and cost-effective, this simple system allows to control servicing and implement a preventative maintenance routine.

# Accessories for Pneumatic Systems



## TPUK-PA (AUDIBLE ALARM)

The audible alarm is an option for use with the Guardian systems. It will sound when the alarm output of the Guardian is triggered due to either a diaphragm break (PDFM), pump dry running (PDRN & PDRS) or a dead head situation (PDHS).



## TPUK-SS (START/STOP UNITS)

Start/Stop Units can be integrated into diaphragm pump systems and can also be used in conjunction with other pneumatic systems such as the Batch Controller (TPUK-BP), Timed Batcher (TPUK-BT) and Manually Started Level Control System (TPUK-LM).

These units provide increased functionality and flexibility to the pump installation and allow for control of the pump or system from a remote local up to 20 m away from the controller or the pump.



## BLOCKING VALVES

### TPUK-BV (blocking valve| relay valve)

Required accessory for the Guardian system, level control, batch control and start/stop control. Utilizes pneumatic signal to control pump air supply. Available in sizes 1/8", 1/4" and 1/2".

### TPUK-B/NV (blocking/needle valve)

An alternative for TPUK-BV additional functionality to control pump speed. Available in sizes 1/8", 1/4" and 1/2".



## OTHER

### TPUK-MU (muffler with fitting)

Required accessory for batch controllers, life counter and low pressure VFC. Available in sizes 1/2" and 1".

### TPUK-VFC (Volt free contact)

This accessory is used to convert the Guardian alarm output signal into volt free contacts for integration with a PLC.

### TPUK-NV (Needle valve)

Pump speed control that mount directly into the pumps air inlet, adjusted using a screwdriver.

# Accessories for Centrifugal Pumps



## MOTOR COVERS

Hygienic motor covers are dedicated to be used with centrifugal pumps from CT and CTX range. The hygienic motor shroud in AISI 304L protects the motor against flooding, deposition of dirt, or spraying water during pump cleaning procedure.



## FREQUENCY INVERTERS

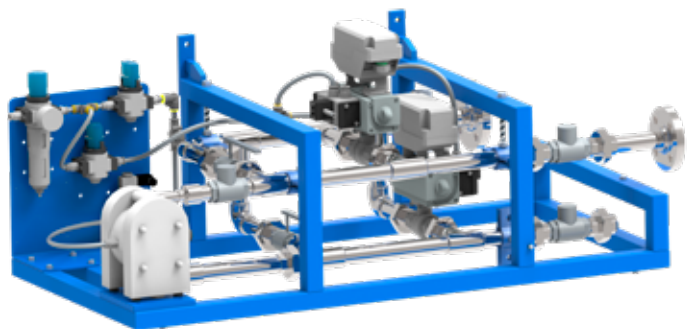
Frequency inverters (also termed variable frequency drives or AC drives) are used to control AC motor speed and torque by varying motor input frequency and voltage. They can also be used to protect electrical motor from overloading.



## CONTROL PANELS

Control panels are turn-key solutions, being the best option for customers willing to control their process with the least effort. Tapflo offer includes both the standard solution and customized solutions based on frequency inverters, PLC or microprocessor controllers. We offer standard solutions for typical pumping applications but also provide customized units.

## Tapflo Solutions™



## 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. Custom design is aimed at adapting standard solutions to non-standard needs as part of industrial manufacturing processes. It is implemented through introduction, often small changes in the standard product in such a way, that in consequence it becomes applicable to the individual needs of the process.

## Sweden

Filaregatan 4 | S-442 34 Kungälv

Tel: +46 303 63390

Fax: +46 303 19916

E-mail addresses:

Commercial questions: [sales@tapflo.com](mailto:sales@tapflo.com)

Orders: [order@tapflo.com](mailto:order@tapflo.com)

Tech support: [support@tapflo.com](mailto:support@tapflo.com)

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## 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 | 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 Group Companies

### Australia

Tapflo Oceania (Pty) Ltd.  
Tel: +61 1800303633  
[sales@tapflo.com.au](mailto:sales@tapflo.com.au)

### Austria

Tapflo GmbH  
Tel: +43 73227292910  
[sales@tapflo.at](mailto:sales@tapflo.at)

### Baltic States

Tapflo SIA  
Tel: +371 67472205  
[sales@tapflo.lv](mailto:sales@tapflo.lv)

### Belarus

Tapflo LLC  
Tel: +375 173934609  
[sales@tapflo.by](mailto:sales@tapflo.by)

### Belgium

Tapflo Benelux B.V.  
Tel: +31 (0)850074300  
[info@tapflo.nl](mailto:info@tapflo.nl)

### Bulgaria

Tapflo EOOD  
Tel: +359 (0)29741854  
[office@tapflo.bg](mailto:office@tapflo.bg)

### Canada

Tapflo Canada  
Tel: +1 5148135754  
[canada@tapflo.com](mailto:canada@tapflo.com)

### China

Tapflo (Wuxi) Pumps Co. Ltd.  
Tel: +86 51082417072  
[sales@tapflo.cn](mailto:sales@tapflo.cn)

### Croatia

Tapflo d.o.o.  
Tel: +385 914884666  
[sales@tapflo.hr](mailto:sales@tapflo.hr)

### Czech Republic

Tapflo s.r.o.  
Tel: +420 513033924  
[tapflo@tapflo.cz](mailto:tapflo@tapflo.cz)

### Denmark

Tapflo Danmark ApS  
Tel: +45 36454600  
[info@tapflo.dk](mailto:info@tapflo.dk)

### France

Sarl Tapflo France  
Tel: +33 134788240  
[info@tapflo.fr](mailto:info@tapflo.fr)

### Hungary

Tapflo Kft.  
Tel: +36 30148 8551  
[office@tapflo.hu](mailto:office@tapflo.hu)

### India

Tapflo Fluid Handling India Pvt Ltd.  
Tel: +91 2065000215  
[ac@tapflo.in](mailto:ac@tapflo.in)

### Ireland

Tapflo Ireland Ltd.  
Tel: +353 12011911  
[info@tapflo.ie](mailto:info@tapflo.ie)

### Italy

Tapflo Italia S.r.l.  
Tel: +39 0362306528  
[info@tapfloitalia.com](mailto:info@tapfloitalia.com)

### Japan

Tapflo Japan K.K.  
Tel: +81 362403510  
[tapflojp@tapflo.co.jp](mailto:tapflojp@tapflo.co.jp)

### Kazakhstan

Tapflo LLP  
Tel: +7 7273278347  
[sales@tapflo.kz](mailto:sales@tapflo.kz)

### Netherlands

Tapflo Benelux B.V.  
Tel: +31 (0)850074300  
[info@tapflo.nl](mailto:info@tapflo.nl)

### Poland

Tapflo Sp. z o.o.  
Tel: +48 585304212  
[info@tapflo.pl](mailto:info@tapflo.pl)

### Romania

S.C. Tapflo Rom. S.r.l.  
Tel: +40 213451255  
[sales@tapflo.ro](mailto:sales@tapflo.ro)

### Russia

Tapflo Company LLP  
Tel: +7 4952321828  
[sales@tapflo.com.ru](mailto:sales@tapflo.com.ru)

### Serbia

Tapflo d.o.o.  
Tel: +381 21445808  
[sales@tapflo.rs](mailto:sales@tapflo.rs)

### Slovakia

Tapflo s.r.o.  
Tel: +421 911137883  
[tapflo@tapflo.sk](mailto:tapflo@tapflo.sk)

### Slovenia

Tapflo d.o.o.  
Tel: +386 68613474  
[sales@tapflo.hr](mailto:sales@tapflo.hr)

### Spain

Tapflo Ibérica S.L.  
Tel: +34 918093182  
[avives@tapfloiberica.es](mailto:avives@tapfloiberica.es)

### South Africa

Tapflo (Pty) Ltd.  
Tel: +27 317015255  
[sales@tapflo.co.za](mailto:sales@tapflo.co.za)

### Sweden

Tapflo AB  
Tel: +46 (0)30314050  
[info@tapflo.com](mailto:info@tapflo.com)

### Turkey

Tapflo Makina Ltd.  
Tel: +90 2164673311  
[sales@tapflo.com.tr](mailto:sales@tapflo.com.tr)

### Ukraine

Tapflo LLC  
Tel: +380 442226844  
[sales@tapflo.ua](mailto:sales@tapflo.ua)

### Uzbekistan

Tapflo Uzbekistan  
Tel: +998 712370940  
[sales@tapflo.uz](mailto:sales@tapflo.uz)

### United Kingdom

Tapflo (UK) Ltd.  
Tel: +44 2380252325  
[sales@tapflo pumps.co.uk](mailto:sales@tapflo pumps.co.uk)



If your country is not listed please visit [www.tapflo.com/en/contact](http://www.tapflo.com/en/contact)