tapflo

AIR OPERATED DIAPHRAGM PUMPS

2022 | 2





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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.



About Tapflo

Tapflo is an independent, Swedish, family owned manufacturer and global supplier of air operated diaphragm pumps, centrifugal pumps and other industrial process The company was founded in Kungäly, Sweden in 1980 and has since then been working with design and manufacture of thermoplastic, metal and sanitary series diaphragm pumps, as well as the 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 owned companies and independent distributors all over the world on 6 continents.

Quality certified

At Tapflo, we believe that quality is one of the highest values, both for our customers as well as our employees. As a result, we comply with various globally recognised certification and quality control institutions. Many of our products comply with EC ATEX directives for equipment intended for used in explosive and hazardous environments.

The aseptic series is EHEDG certified (European Hygienic Engineering & Design Group) and the pharmaceutical series has USP VI and EC 1935/2004 approval.

All of our products are clearly CE marked and followed by our comprehensive instruction manuals. Tapflo manufacturing process is certified according to ISO 9001:2015.

















Our values

Long term engagement is our core

Our aim is to continuously provide premium products according to the evolving needs of our customers. That is why we see each customer relationship as a long term commitment.

Local means on your terms

Tapflo is your global partner providing local support. No matter where your plant is located, you can expect us to support you locally.

Flexibility the foundation of good service

We are prepared to deal with reality, knowing that in practice this means answering questions, offering solutions and supplying spare parts with a minimal loss of time.

Customising to bring the product to the needs

Our intention is always to help our clients find the most cost effective solutions to increase their company's efficiency.

If this means changing the design of the pump, we see it as a challenge - not a problem.

To produce is to develop

Being actively involved in the manufacturing of a product, it is almost impossible not to discover ways to improve it.

This allows us to frequently offer solutions that are even more sustainable and efficient.

Diaphragm pumps

most versatile pumps on the market

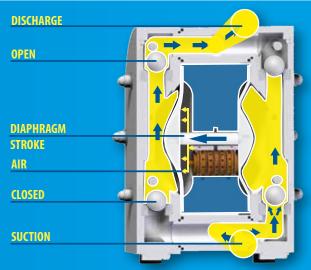
■ Working principle

Tapflo diaphragm pump is driven by compressed air. Two diaphragms are working simultaneously to prime and push the liquid through the pump system. Valve balls work as check valves to let the liquid through in the right direction.

During each cycle the air pressure on the back of the discharging diaphragm is equal to the head pressure on the liquid side. Tapflo diaphragm pumps can therefore be operated against a closed discharge valve with no adverse effect to the life of the diaphragms.

Suction

One diaphragm creates a suction action when being pulled back from the housing.



Discharge

The other diaphragm simultaneously transmits the air pressure to the liquid in the housing, pushing it towards the discharge port.

■ Fast facts

Capacity 0-820 l/min

0 - 216 US gal/min

Pressure 0 - 8 bar (max 16 bar for TF series)

0 - 116 PSI (max 232 PSI for TF series)

Connection sizes 1/4" up to 3" (DN8 - DN80)

Pump materials

PE, PTFE, aluminium, cast iron, stainless steel AISI 316L,

and PTFE coated aluminium

Features & Benefits

Run dry without damage
Easy to use, no need of guarding
device

Infinitely variable flow control Flexible and easy to adjust

Self-priming up to 5 m from dry suction pipe
More options of installation

No electricity needed
Explosion proof versions
Ex-zone 1 available
(ATEX group II, cat 2)

Few components
Low down time and maintenance costs

Solid, strong and long life design Low maintenance costs

Lubrication free air distribution system
Saves the environment
from pollution

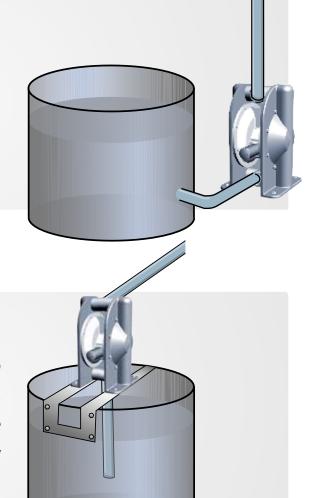
Air operated
Can run against a closed pipe or closed valve without damage. Easy to install without special training (no electricity)

How to install Tapflo pumps

The Tapflo pumps are flexible in their ease of installation. The in- and outlet ports are rotatable more than 180° to fit your piping system (PE & PTFE and metal series pumps).

Flooded

The piping system is designed with a positive suction head. This is the best way of installation where it is necessary to completely evacuate all liquid from the container, or where viscous (thick) products are transferred.



Self-priming

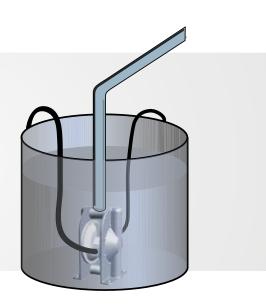
The Tapflo pump is designed to pull a high vacuum. It is able to evacuate an empty suction pipe without any damage to the pump. The suction lift is up to 5 meter (16.4') from an empty suction pipe and up to 8 meter (26.2') from a wetted pipe. The suction capability depends on the pump size (see pages 16, 23, 28).

Submerged

All Tapflo pumps may be submerged into the liquid.

It is important to make sure that all components which are in contact with the liquid are chemically compatible.

The air exhaust must be led to the atmosphere by means of a hose.



Key components of the Tapflo pump

Three major components are especially vital for the function of the pump...

Long life diaphragms

Tapflo diaphragms are of composite construction, superior for continuous heavy duty service, with a completely smooth surface in contact with the liquid. This results in no leak through and a diaphragm which is easy to keep clean.

The diaphragms are available in various materials and colours to suit any requirements, they are made from EPDM, NBR, FKM, PTFE, PTFE TFM 1705b, EPDM white, PTFE with white EPDM back, NBR white.

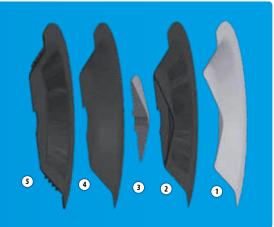




Multilayer Design

An advanced process of performing, curing, trimming and finishing result in a long life composite diaphragm that will last for many millions of stroke cycles. All compounds are specially developed and optimized for composite diaphragm technology and compression molding production. Components are chemically bonded by bonding agents and adhesives.

(1) PTFE TFM layer | (2) Elastomer upper half | (3) Core (metal) (4) Fabric | (5) Elastomer lower half

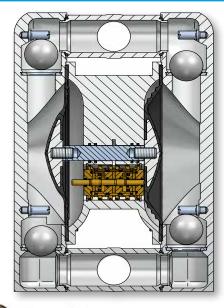


Energy saving drive

The air valve is the driving heart of the pump, distributing the compressed air to the chambers behind the diaphragms. The air valve is placed in the middle of the pump between the diaphragms, to achieve short air ways and a minimum of so called dead volumes. This all together is the key to a reliable and energy saving drive.

It is made for maintenance free duty with no lube air, thanks to the ingenious sealing system. It will not only save your money for lubrication, it will also protect environment from pollution.

The valve body is made from **brass** or optional **PET** or **stainless steel AISI 316**.



Ball check valves

The Tapflo pump is fitted with four check valves, making sure that the liquid is transferred in the right direction through the pump.

The ball type valve is the most simple and reliable valve design. It has a good sealing capability and is easy to keep clean and to replace if necessary.

The ball valve materials are available in **EPDM**, **NBR**, **PTFE**, **PTFE TFM 1635**, **PE1000**, **FKM**, **PU**, **Ceramic**, **SiC**, **AISI 316L** to suit any kind of liquid.



Flap valves (Sanitary pumps)

Flap valves are used when pumping liquids containing big solids without damage. We are able to pump solids up to **18 mm** in **T80** and **T125**, **44** mm in **T225** and **T425** and **100** mm in **T825**. Pumps can reach dry suction lift of 4,5 meters.

Tapflo flap valves are durable, have only two spare parts and are hygienic thus easier to clean.

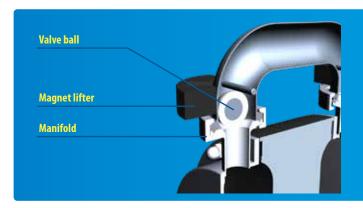


Magnetic ball lifters (Sanitary & EHEDG pumps)

Possibility to drain the content of the pump is crucial in most hygienic applications. Ball lifting system from Tapflo could not have been easier.

Magnetic ball lifters are implemented in Sanitary and Aseptic EHEDG series 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.





■ Working principle

Valve ball, either made of AISI 420 or PTFE with steel core, is lifted by magnet lifter attached onto the manifolds.





Applications. Where do you use Tapflo pumps?

Tapflo pumps are some of the most versatile pumps on the market today. They can be used in a variety of installations in numerous applications. Thanks to the simple operating principle, with a compact and reliable design, Tapflo diaphragm pumps meet the demands of heavy industrial duties.

Various liquids - Tapflo pumps are compatible with a very wide range of chemicals:

- Corrosive and chemical aggressive
- High and low viscous
- Abrasive
- Solid content
- Shear sensitive
- Flammable











PE & PTFE series pumps

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



Polyethylene pumps

Polyethylene (PE HD) has a superior wear resistance which is 6 – 7 times better than for polypropylene (PP). This fact makes the pump suitable for handling abrasive slurries etc. PE is resistant to most kind of aggressive chemicals such as concentrated acids and alkalis. Maximum liquid temperature is 70°C. Tapflo uses different grades of PE depending on the part. For valve seats and ball stoppers, which are most vulnerable to wear - UHMW PE1000 is used for best mechanical strength and abrasion resistance.

PTFE pumps

PTFE (virgin polytetrafluorethylene) is a thermoplastic polymer with superior chemical resistance. The PTFE pump will handle even the most aggressive acids, for instance concentrated nitric acid. Maximum liquid temperature is up to 100°C.



EN 10204



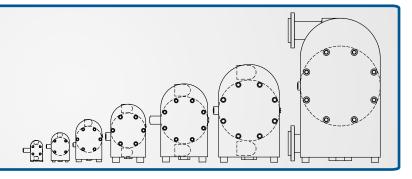






The PE & PTFE pump range

- >> 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"



Typical applications

| Industry | Example of applications |
|--------------------------|---|
| >>> Chemistry | Acids, alkalis, alcohol, solvents, latex, emulsions |
| >>> Food | CIP fluid, flavoring, pigments |
| >>> Pulp & Paper | Glue, slurries, adhesives, dispersions, resins, sodium silicate, titanium oxide |
| >>> Surface conditioning | Electroplating baths, various acids, solvents, anodic sludge, varnish, enamels |
| >>> Water treatment | Sludge handling, filter press applications, neutralization and flocculants |
| >>> Electronics | Carrier fluids, ultra-pure liquids, electroplating solutions, mercury, solvents |
| >>> Print & paint | Glue, additives, varnish, ink, paint, latex, acid, resins, pigments |

The ingenious Tapflo design

Few components and a simple but ingenious design is peculiar for all Tapflo pumps. It is a compact pump, easy and quick to maintain, keeping your service costs and process down time to a minimum.

Flexible installations

The connections may be rotated 180°. Simply turn the connections to fit your piping system. Threaded BSP or NPT plastic connections is standard, AISI 316 or other connections types are also available.

Solid and strong

The pump body is machined from solid PE or PTFE. The solid design will stand against mechanical forces as well as aggressive chemicals.



Low air consumption

The air distribution system is designed with shortest possible air distribution ways. This eliminates "dead spaces", resulting in high efficiency and low air consumption.

Chemical design

The compound diaphragm has a completely smooth liquid side surface and with no metal in contact with the liquid. Ideal for a safe chemical handling.



PE pumps - suitable for most chemicals and abrasive medias



PTFE pumps - suitable for the most aggressive chemicals

Special versions



Drum pumps | TD series

It is fitted with a drum tube in polypropylene (PP) or PTFE and a handle in stainless steel AISI 316L.

The drum tube is delivered in any length up to 2 m.

Handle your liquids comfortable. You will easily move your Tapflo drum pump between drums and containers.

The PE & PTFE drum pumps range

- >> TRD20 24 l/min, ½" suction, ¾" discharge
- >> TD50 60 I/min, 1" suction, ½" discharge
- >> TD100 125 I/min, 1" suction and discharge

Features & Benefits

- - No rotating parts

Gentle liquid handling – ideal for shear sensitive liquids or abrasive products. Adjustable suction pipe length.

- High pressure
 - Able to handle even high viscous products
- Infinitely variable flow

Easy to adjust the flow for a safe fluid handling



Integrated flanges | 3D/3A

Pumps with integrated flanges are a robust and solid design. When there is a risk of transferring of vibration from the installation to the pump, the solid manifolds provide better stability and sealing for the pump.

More material and robust construction 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

Special versions



Explosion proof pumps | TX series

The ATEX directive 2014/34/EC (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. The conductive material ensures that no electrostatic loads will be accumulated in the pump. The conductive pigments in the material reduces the surface resistance. Transfer of alcohol and solvents are examples of applications for the Tapflo TX pumps.

Pumps certified according to 2014/34/EC (ATEX)

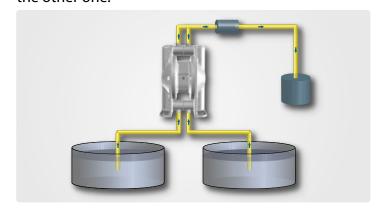
2G/2D Category: Apparatus group: IIB Temperature class:



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.



Example of applications

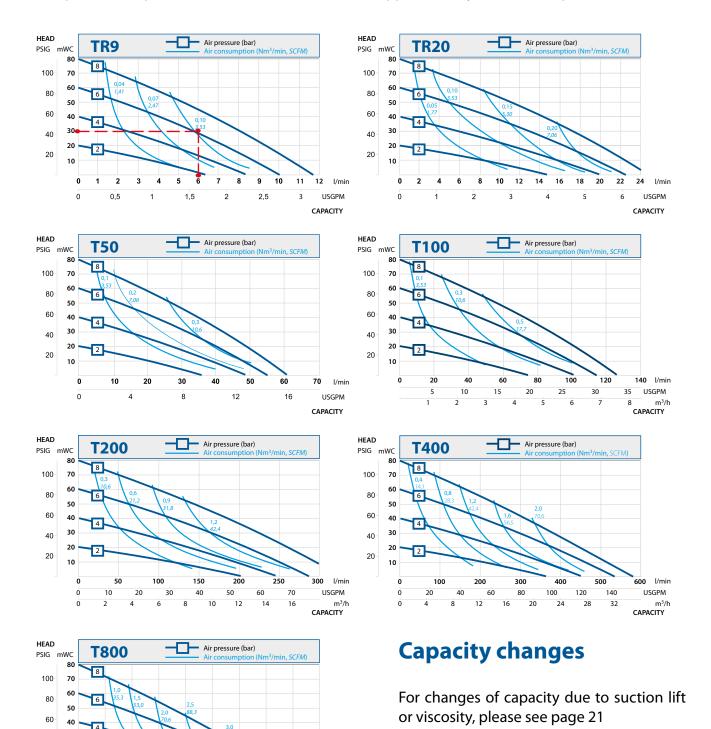
- >> Mixing of two liquids with one pump (50/50 ratio) (installation example above)
- >> Transfer and return of printing ink from storage to ink tray
- >>> Transfer and agitation of liquids with one pump

Performance curves

 $The performance curves are based on water at 20 ^{\circ}\text{C}. Other circumstances might change the performance.$

Example see the red line ----

A flow of 6 litre/minute is desired. The discharge head is calculated to 30 mWC. We choose a TR9. It requires an air pressure of 6 bar and will consume approximately 0.10 Nm³ air per minute.



Changes reserved without notice

l/min

m³/h CAPACITY

USGPM

800

200

400 500

80

20

120

600

160

40 30 20

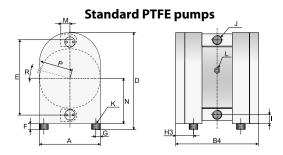
100 200

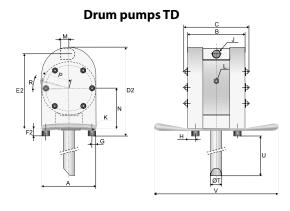
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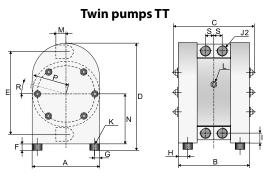
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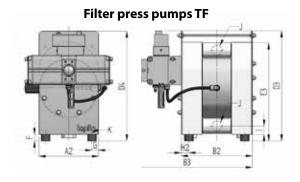
Dimensions

Standard PE pumps









Dimensions for PE & PTFE series

Dimensions in mm (where other is not indicated)
Dimensions in inch (where other is not indicated)

| Dim | | | F | ump size | e | | |
|------|-------|--------|--------|----------|--------|--------|-------|
| | 9 | 20 | 50 | 100 | 200 | 400 | 800 |
| Α | 70 | 105 | 150 | 200 | 270 | 350 | 460 |
| ^ | 2.76 | 4.13 | 5.91 | 7.87 | 10.63 | 13.78 | 18.11 |
| A2 | - | - | 150 | 300 | 300 | 404 | - |
| / \Z | - | - | 5.91 | 11.81 | 11.81 | 15.91 | - |
| В | 94 | 113 | 162 | 216 | 313 | 382 | 557 |
| | 3.70 | 4.45 | 6.38 | 8.50 | 12.32 | 15.04 | 21.93 |
| B2 | - | - | 168 | 224 | 324 | 392 | - |
| 02 | - | - | 6.61 | 8.82 | 12.76 | 15.43 | - |
| ВЗ | - | - | 262 | 415 | 595 | 670 | - |
| - | - | - | 10.31 | 16.34 | 23.43 | 26.38 | - |
| B4 | 134 | 152 | 202 | 256 | 352 | 422 | - |
| ٠. | 5.28 | 5.98 | 7.95 | 10.08 | 13.86 | 16.61 | - |
| C | 116 | 134 | 185 | 252 | 350 | 426 | 601 |
| | 4.57 | 5.28 | 7.28 | 9.92 | 13.78 | 16.77 | 23.66 |
| D | 123 | 168 | 243 | 320 | 450 | 563 | 830 |
| | 4.84 | 6.61 | 9.57 | 12.60 | 17.72 | 22.17 | 32.68 |
| D2 | - | 173 | 249 | 325 | - | - | - |
| UZ | | 6.81 | 9.80 | 12.80 | - | - | - |
| D3 | - | - | 352 | 351 | 501 | 583 | - |
| 00 | - | - | 13.86 | 13.82 | 19.72 | 22.95 | - |
| D4 | - | - | 343 | 364 | 500 | 610 | - |
| U4 | - | - | 13.50 | 14.33 | 19.69 | 24.02 | - |
| Е | 92 | 132 | 190 | 252 | 345 | 440 | 650 |
| | 3.62 | 5.20 | 7.48 | 9.92 | 13.58 | 17.32 | 25.59 |
| E2 | - | 147 | 210 | 280 | - | - | - |
| LZ | - | 5.79 | 8.27 | 11.02 | - | - | - |
| E3 | - | - | 244 | 319 | 447 | 588 | - |
| E3 | - | - | 9.61 | 12.56 | 17.60 | 21.97 | _ |
| F | 8 | 8 | 15 | 15 | 30 | 30 | 30 |
| Г | 0.31 | 0.31 | 0.59 | 0.59 | 1.18 | 1.18 | 1.18 |
| Γa | - | 13 | 20 | 20 | - | - | - |
| F2 | - | 0.51 | 0.79 | 0.79 | - | - | - |
| _ | 9 | 15 | 17 | 30 | 30 | 30 | 20 |
| G | 0.35 | 0.59 | 0.67 | 1.18 | 1.18 | 1.18 | 0.79 |
| н | 10 | 15 | 16 | 30 | 30 | 30 | 30 |
| п | 0.39 | 0.59 | 0.63 | 1.18 | 1.18 | 1.18 | 1.18 |
| 112 | - | - | 19 | 34 | 35 | 35 | - |
| H2 | - | - | 0.75 | 1.34 | 1.38 | 1.38 | - |
| 112 | 30 | 35 | 36 | 50 | 50 | 50 | - |
| H3 | 1.18 | 1.38 | 1.42 | 1.97 | 1.97 | 1.97 | - |
| | 12 | 15 | 20 | 28 | 38 | 48 | 80 |
| ı | 0.47 | 0.59 | 0.79 | 1.10 | 1.50 | 1.89 | 3.15 |
| | 1/4" | 3/8" | 1/2" | 1" | 1 1/2" | 2" | 3″ |
| J | 1/4 | 3/8 | 1/2 | 1 | 1 1/2 | 2 | 3" |
| 12 | 1/4" | 3/8" | 1/2" | 3/4" | 1″ | 1 1/2" | - |
| J2 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/2 | - |
| К | M4x16 | M4x16 | M8x25 | M8x25 | M8x25 | M8x25 | M8x25 |
| K | M4 | M4 | M8 | M8 | M8 | M8 | M8 |
| | 1/8" | 1/8" | 1/4" | 1/4" | 1/2" | 1/2" | 1/2" |
| L | 1/8 | 1/8 | 1/4 | 1/4 | 1/2 | 1/2 | 1/2 |
| | 15 | 17 | 25 | 38 | 54 | 70 | 105 |
| М | 0.59 | 0.67 | 0.98 | 1.50 | 2.13 | 2.76 | 4.13 |
| N. | 58 | 81 | 115 | 154 | 211 | 268 | 411 |
| N | 2.28 | 3.19 | 4.53 | 6.06 | 8.31 | 10.55 | 16.18 |
| D | 35 | 52 | 80 | 105 | 143 | 183 | 237 |
| Р | 1.38 | 2.05 | 3.15 | 4.13 | 5.63 | 7.20 | 9.33 |
| n | 0° | 0° | 15° | 15° | 0° | 0° | 0° |
| R | 0° | 0° | 15° | 15° | 0° | 0° | 0° |
| _ | 13 | 15 | 21 | 27 | 35 | 42 | - |
| S | 0.51 | 0.59 | 0.83 | 1.06 | 1.38 | 1.65 | - |
| | - | 20 | 32 | 32 | - | - | - |
| ØT | - | 0.79 | 1.26 | 1.26 | - | _ | - |
| | - | 1170* | 1170* | 1170* | - | - | - |
| U | _ | 46.06* | 46.06* | 46.06* | _ | - | - |
| | | 10.00 | 10.00 | 10.00 | | | |
| ٧ | - | 286 | 360 | 401 | - | - | - |

^{*} = Any length up to 2000 mm upon request

General dimensions only, ask us for detailed drawings. Changes reserved without notice

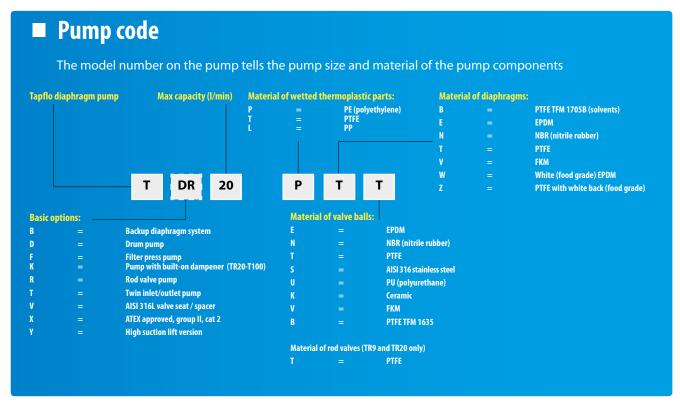
^{*} = Any length up to 79" upon request

Technical data

| A | Pump size | | | | | | | |
|--|-------------|-------------|------------------------|--|------------------|-------------|--------------|--|
| Data | 9 | 20 | 50 | 100 | 200 | 400 | 800 | |
| General characteristics | | ' | | ' | | | | |
| *Max capacity (I/min) / (US gpm) | 11 / 2.9 | 24 / 6.3 | 60 / 15.8 | 125 / 33 | 330 / 87 | 570 / 150 | 820 / 216 | |
| **Volume per stroke (ml) / (cu in) | 13 / 0.80 | 50 / 3.05 | 87.5 / 5.34 | 280 / 17.1 | 933 / 56.9 | 2300/140.3 | 5125 / 312.7 | |
| Max discharge pressure (bar) / (psi) | 8 / 116 | 8/116 | 8/116 | 8/116 | 8 / 116 | 8/116 | 8/116 | |
| Max air pressure (bar) / (psi) | 8/116 | 8/116 | 8/116 | 8/116 | 8/116 | 8/116 | 8/116 | |
| ****Max suction lift dry (m) / (Ft) | 1.6 / 5.25 | 2.4 / 7.87 | 4 / 13 | 3.5 / 11 | 4 / 13 | 4 / 13 | 5 / 16 | |
| Max suction lift wet (m) / (Ft) | 8/26 | 8/26 | 9/ 29.5 | 9/ 29.5 | 9/ 29.5 | 9/ 29.5 | 9/ 29.5 | |
| Max size of solids (ø in mm) / (in) | 2/0.08 | 3 / 0.12 | 4/0.16 | 6 / 0.24 | 10 / 0.39 | 15 / 0.59 | 15 / 0.59 | |
| Max temp, pump in PE (°C) / (°F) | 70 / 158 | 70 / 158 | 70 / 158 | 70 / 158 | 70 / 158 | 70 / 158 | 70 / 158 | |
| Max temp, pump in PTFE (°C) / (°F) | 100 / 212 | 100 / 212 | 100 / 212 | 100 / 212 | 100 / 212 | 100 / 212 | - | |
| | | | | | | | | |
| Weight | | | | | | | | |
| Standard pump T in PE (kg) / (lb) | 0.75 / 1.65 | 1.6 / 3.53 | 4.3 / 9.48 | 10 / 22 | 25 / 55.12 | 47 / 103.62 | 147 / 342 | |
| Standard pump T in PTFE (kg) / (lb) | 1.35 / 2.98 | 3.15 / 6.94 | 9 / 19.84 | 17 / 38 | 47 / 103.62 | 87 / 191.80 | - | |
| Drum pump TD in PE (kg) / (lb) | - | 2.4 / 5.29 | 4.7 / 10.36 | 10.5 / 23.15 | - | - | - | |
| Drum pump TD in PTFE (kg) / (lb) | - | 3.9 / 8.6 | 9.4 / 20.72 | 17.5 / 38.58 | - | - | - | |
| Filter press pump TF in PE (kg) / (lb) | - | - | 8 / 17.64 | 21.6 / 47.62 | 30 / 66.14 | 70 / 154.32 | - | |
| Material of components | | | | | | | | |
| Pump housing and all wetted | | | | | | | | |
| thermoplastic details | | | PE o | r PTFE | | | PE | |
| Centre block (not wetted) | | | | PP, PP conductiv | re | | | |
| Diaphragms | PTFE, FKM | | | PTFE, PTFE 1705 | B, EPDM or NB | R | | |
| Valve balls | - | | PTFE, | EPDM, NBR, AIS | 316L***, PU, C | eramic*** | | |
| Rod valves (TR9 and TR20) | PE, | PTFE | - | - | - | - | - | |
| Air valve | | Ì | | .), stainless stee NBR (std.), EPDI | | Т | | |
| O-rings (wetted) | | | | , FKM, FEP/Silico | | | | |
| Housing pin screws | | | Sta | inless steel AISI | 316L | | | |
| Diaphragm shaft | | Stainle | ess steel AISI 31 | 6L (TR9, TR20, T | 300) / 304L (T50 | -T400) | | |
| Drum handle (TD pumps) | - | Stai | nless steel AISI | 316L | - | - | - | |
| Reinforcement plates (TF pumps) | - | - | | Stainless st | eel AISI 316L | | - | |

^{* =} Recommended flow is half of the max flow, i.e. recommended flow for a T100 is 62 l/min (16.3 US gpm)

^{**** =} This is max value with stainless steel valve balls, other valve ball materials may reduce the suction. Please consult us



^{* =} Ask us for complete pump code with all available options and executions. Changes reserved without notice

^{** =} The value is based on pumps with EPDM diaphragms. Pumps with PTFE diaphragms have about 15% less volume

^{*** =} Not available on T800

Metal series pumps

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



Aluminium and cast iron pumps

For transfer of pH-neutral fluids, both thin, thick, high solid content or abrasive. The aluminium and cast iron pumps are found in most fields; workshop and paint industries, purifying plants etc., to mention only a few.

AISI 316 stainless steel pumps

Made in lost wax cast method, ensuring great accuracy and finish. The stainless steel pumps combine great mechanical strength with good chemical features. AISI 316 is resistant to aggressive liquids like nitric acid and sodium hydroxide. The centre block, which is not in contact with liquid, is made from corrosive resistant polypropylene (PP) as standard (other materials upon request).





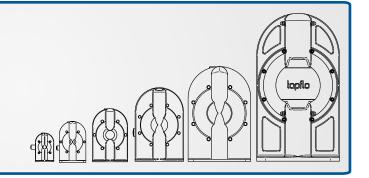






The metal pump range

- >> 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"
 - * = aluminium and cast iron only



Typical applications

| | Industry | Example of applications |
|-----------------|-----------------------|---|
| >> | Workshop | Oil, fat, solvents, water, cooling fluid, lubricants |
| >> | Print & paint | Glue, additives, varnish, ink, paint, latex, acid, resins, pigments |
| >> | Mining & construction | Adhesives, sump, dewatering, coal sludge, pastes |
| >> | Ceramic industry | Abrasives, glaze, water, enamels, clay |
| >> | Chemistry | Acids, alkalis, alcohol, solvents, latex, emulsions |

The ingenious Tapflo design

You will discover the ingenious simplicity when you maintain the pump. We use approximately **70% fewer parts compared with other brands.**



Optional Camlock connections

Metal series diaphragm pumps can be ordered with CAMLOCK connections. The coupling is connected by simply opening the coupler arms and inserting the adaptor into the coupler.

Durable valve seats

The valve seat is under constant stress from the movement of the valve ball. To obtain the best wear resistance, the integrated seat is made from AISI 316 stainless steel.



Flexible installations

The connections may be rotated 180°. Simply turn the connections to fit your piping system. Threaded BSP or NPT connections is standard. Twin connections are also available.

Low air consumption

The air distribution system is designed with shortest possible air distribution ways. This eliminates "dead spaces", resulting in high efficiency and low air consumption.



Aluminium and cast iron - suitable for thick and thin pH neutral liquids



Stainless steel - suitable for chemicals

Special versions



Drum pumps | TD series

The Tapflo drum pump is ideal for mobile use and is available in aluminium or stainless steel AISI 316 SS. It is fit with an ergonomic designed handle in stainless steel AISI 316. The drum tube is delivered in any length up to 2 m. The Tapflo diaphragm drum pump has many advantages compared with conventional drum pumps as stated below.

Handle your liquids comfortable. You will easily move your Tapflo drum pump between drums and containers.

The Metal drum pumps range

- >> TXD25 25 l/min, 1/2" suction and discharge
- >> TXD70A 70 I/min, M30 x 1,5 suction; 3/4" discharge
- >> TXD70 S 70 l/min, 3/4" suction and discharge
- >> TXD120A 120 I/min, M30 x 1,5 suction; 1" discharge
- >> TXD120S 120 I/min, 1" suction and discharge

Features & Benefits

- \checkmark
- No rotating parts
- Gentle liquid handling ideal for shear sensitive liquids or abrasive products.
- $\sqrt{}$
- High pressure
- Able to handle even high viscous products
- **V**
- Infinitely variable flow
- Easy to adjust the flow for a safe fluid handling



Ball lifters TL

This option is a great way to empty the pump of liquid if there is no possibility of pump disconnection from the installation.

With this easy solution you can simply raise the ball from the valve seat and allow the liquid to flow out of the pump.

>> Available for sizes: T70 | T120 | T220 | T420

Special versions







Explosion proof pumps | TX series

The ATEX directive 2014/34/EC (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, having model names TX... The standard stainless steel pumps are not allowed to operate in environments. special conductive TX pumps are available for such applications. All plastic parts utilized in such pumps are made from conductive (carbon filled) materials thus made for use in explosion hazardous environments. What is more ATEX pump are equipped with a grounding connection.

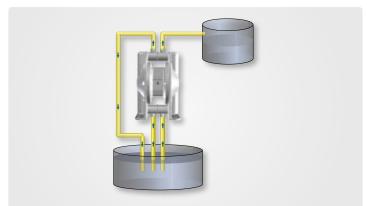
They can be used in Ex-zone 1. The conductive material ensures that no electrostatic loads will be accumulated in the pump.

Pumps certified according to 2014/34/EC (ATEX)

Group: 2G/2D Category: Apparatus group: Temperature class:

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.



Example of applications

- >> Transfer of two different liquids, two pumps in one
- Mixing of two liquids with one pump (50/50 ratio)
- >> Transfer and return of printing ink from storage to ink tray
- Transfer and agitation of liquids with one pump (installation example above)

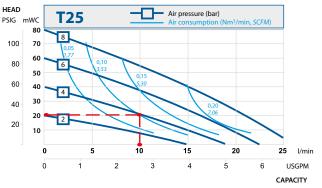
20

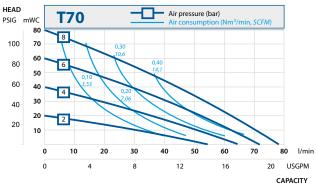
Performance curves

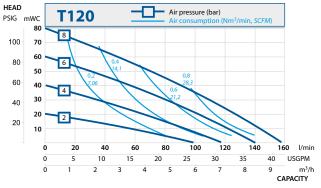
The performance curves are based on water at 20°C. Other circumstances might change the performance. See below how the capacity will change at different viscosities and suction lifts. These curves are valid for all metal pumps.

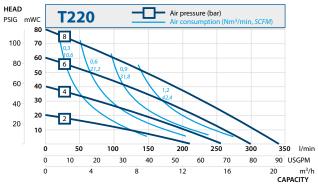
Example see the red line •— — — —

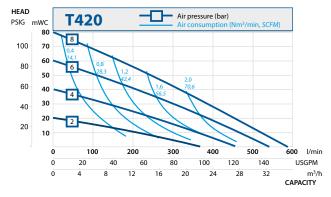
A flow of 10 litre/minute is desired. The discharge head is calculated to 20 mWC. We choose a T25. It requires an air pressure of 4 bar and will consume approximately 0.10 Nm³ air per minute.

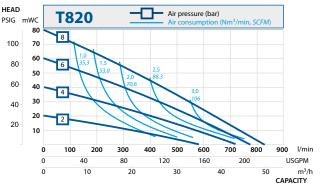






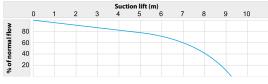




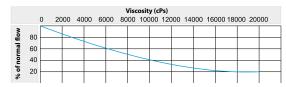


Capacity changes

Capacity changes at different suction lifts



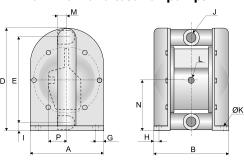
Capacity changes at different viscosities

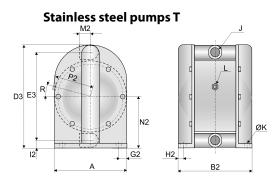


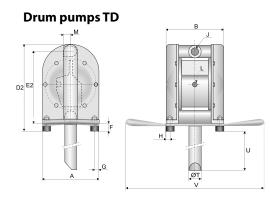
Changes reserved without notice

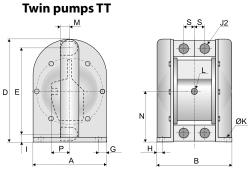
Dimensions

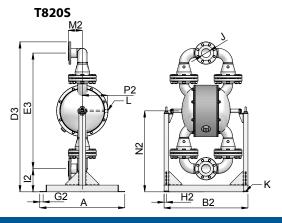
Aluminium and cast iron pumps T











Dimensions for metal series

Dimensions in mm (where other is not indicated) Dimensions in inch (where other is not indicated)

| | | | | Pump si | ze | | |
|------|---------------|---------------|---------------|------------|------------|--------|------------|
| Dim | 25 | 70 | 120 | 220 | 420 | 820A** | 8205** |
| | 105 | 150 | 200 | 275 | 356 | 470 | 760 |
| Α | 4.13 | 5.91 | 7.87 | 10.83 | 14.02 | 18.50 | 29.92 |
| | 117 | 167 | 198 | 267 | 342 | 488 | _ |
| В | 4.61 | 6.57 | 7.80 | 10.51 | 13.46 | 19.21 | _ |
| | - | 157 | 200 | 282 | 347 | 488 | 750 |
| B2 | _ | 6.18 | 7.87 | 11.10 | 13.66 | 19.21 | 29.53 |
| | 162 | 233 | 302 | 419 | 539 | 840 | - |
| D | 6.38 | 9.17 | 11.89 | 16.50 | 21.22 | 33.07 | _ |
| | 173 | 249 | 322 | - | - | - | - |
| D2 | 6.81 | 9.80 | 12.68 | _ | - | - | _ |
| | - | 229 | 310 | 422 | 529 | 840 | 1341 |
| D3 | _ | 9.02 | 12.20 | 16.61 | 20.83 | 33.07 | 52.80 |
| | 132 | 190 | 252 | 346 | 448 | 688 | - |
| E | 5.20 | 7.48 | 9.92 | 13.62 | 17.64 | 27.09 | _ |
| | 147 | 216 | 279 | - | - | - | - |
| E2 | 5.79 | 8.50 | 10.98 | _ | _ | _ | _ |
| | - | 192 | 257 | 348 | 443 | _ | 1035 |
| E3 | | 7.56 | 10.12 | 13.70 | 17.44 | | 40.75 |
| | 13 | 20 | 20 | - | - | - | 40.73 |
| F | 0.51 | 0.79 | 0.79 | _ | - | - | - |
| | | 18 | | | | 50 | - |
| G | 0.43 | | 20 0.79 | 26 | 38 1.50 | | - |
| | | 0.671 | | 1.02 | | 1.97 | - |
| G2 | - | 17 0.67 | 20 | 31 1.22 | 36 | - | 25 0.98 |
| | | | 0.79 | | 1.42 | | |
| Н | 12 | 19 | 20 | 29 | 30 | 53 | - |
| | 0.47 | 0.75 | 0.79 | 1.14 | 1.18 | 2.09 | - |
| H2 | - | 13.5 | 23.5 | 34 | 32 | - | 13 |
| | - | 0.53 | 0.93 | 1.34 | 1.26 | - | 0.51 |
| 1 | 16 | 22 | 27 | 34 | 47 | 82 | - |
| | 0.63 | 0.87 | 1.06 | 1.34 | 1.85 | 3.23 | - |
| 12 | - | 19 | 27 | 38 | 44 | - | 206 |
| | - | 0.75 | 1.06 | 1.50 | 1.73 | - | 8.11 |
| J | 1/2" | 3/4" | 1″ | 1 1/2" | 2" | | 0(3") |
| • | 1/2 | 3/4 | 1 | 1 1/2 | 2 | DN8 | 0(3") |
| J2 | 3/8" | 1/2" | 3/4" | 1″ | 2″ | - | - |
| J.Z. | 3/8" | 1/2" | 3/4" | 1″ | 2" | - | - |
| ØК | 6.5 | 10 | 10 | 10 | 10 | 12.5 | 25x13 |
| ØΙ | 0.26 | 0.39 | 0.39 | 0.39 | 0.39 | 0.49 | 1x0.5 |
| L | 1/8" | 1/4" | 1/4" | 1/2" | 1/2" | 3/4" | 3/4" |
| L | 1/8 | 1/4 | 1/4 | 1/2 | 1/2 | 3/4 | 3/4 |
| | 19 | 29 | 33 | 45 | 57 | 84.5 | - |
| М | 0.75 | 1.14 | 1.30 | 1.77 | 2.24 | 3.33 | - |
| | - | 40 | 52 | 70 | 90 | - | 126 |
| M2 | - | 1.57 | 2.05 | 2.76 | 3.54 | - | 4.96 |
| | 82 | 117 | 153 | 207 | 274 | 356 | - |
| N | 3.23 | 4.61 | 6.02 | 8.15 | 10.79 | 14.02 | - |
| NIC | - | 115 | 155 | 212 | 266 | - | 724 |
| N2 | _ | 4.53 | 6.10 | 8.35 | 10.47 | - | 28.50 |
| _ | 30 | 47 | 39 | 59 | 59 | 72.5 | - |
| Р | 1.18 | 1.85 | 1.54 | 2.32 | 2.32 | 2.85 | _ |
| | - | 82 | 105 | 143 | 183 | - | 238 |
| P2 | _ | 3.23 | 4.13 | 5.63 | 7.20 | _ | 9.37 |
| | - | 15° | 15° | 0° | 0° | - | 0° |
| R | _ | 15° | 15° | 0° | 0° | _ | 0° |
| | 12.5 | 21 | 26 | 35 | 420 | _ | - |
| S | 0.49 | 0.83 | 1.02 | 1.38 | 1.57 | _ | _ |
| | 20 | 30 | 30 | | | | |
| ØΤ | | | | - | - | - | - |
| | 0.79 | 1.18 | 1.18 | - | - | - | - |
| D | 1170* | 1170* | 1170* | - | - | - | - |
| U | 16 06* | 16 06* | 1606* | | | | |
| U | 46.06* 286 | 46.06* 374 | 46.06* 400 | - | - | - | - |

- * = Any length up to 2000 mm on request

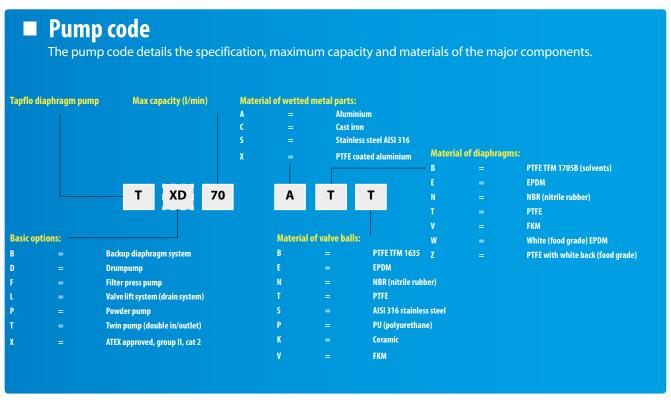
^{*=} Any length up to 79" on request ** = Available in aluminium only *** = Available in Stainless Steel only

Technical data

| Data | Pump size | | | | | | | |
|---|--|--------------------------|----------------------|---------------------|--------------------|--------------------------|--|--|
| Data | 25 | 70 | 120 | 220 | 420 | 820 | | |
| General characteristics | | | | | | | | |
| *Max capacity (I/min) / (US gpm) | 26 / 6.8 | 78 / <mark>20</mark> | 158 / 41 | 330 / 87 | 570 / 150 | 820 / 216 | | |
| **Volume per stroke (ml) / (cu in) | 70 / 4.27 | 87.5 / 5.34 | 420 / 25.6 | 933 / 56.9 | 2300/140.3 | 5125/312.7 | | |
| Max discharge pressure (bar) / (psi) | | | 8/ | 116 | | | | |
| Max air pressure (bar) / (psi) | | | 8/ | 116 | | | | |
| *** Max suction lift dry (m) / (Ft) | 1.5 / 5 | 3 / 9.8 | 4 / 13 | 4 / 13 | 4 / 13 | 5 / 16 | | |
| Max suction lift wet (m) / (Ft) | 8/26 | 8/26 | 8/26 | 8/26 | 8/26 | 8/26 | | |
| Max size of solids (ø in mm) / (in) | 3 / 0.12 | 4 / 0.16 | 6 / 0.24 | 10 / 0.39 | 15 / 0.59 | 13 / 0.51 | | |
| Max temp with EPDM/NBR (°C) / (°F) | | | 80 / 176 | | | | | |
| Max temp with PTFE (°C) / (°F) | | | 110 | / 230 | | | | |
| | | | | | | | | |
| Weight | | | | | | | | |
| Standard pump in alu (kg) / (lb) | 2 / 4.4 | 5 / 11 | 8.65 / 19.1 | 18.1 / 39.9 | 36.8 / 81.1 | 101.5 / 223.8 | | |
| Standard pump cast iron (kg) / (lb) | 4.1/9 | 9.9 / 21.8 | 17.6 / 38.8 | 33.4 / 73.6 | 71.4 / 157.4 | - | | |
| Standard pump in AISI 316 (kg) / (lb) | - | 6.8 / 15 | 15.5 / 34.2 | 35.9 / 79.2 | 66.1 / 145.7 | 137 / 302 | | |
| Drum pump TD in alu (kg) / (lb) | 3 / 6.6 | 7 / 15 | 10 / 22 | - | - | - | | |
| Drum pump TD in AISI 316 (kg) / (lb) | - | 7.5/ 16.53 | 16/ 35.27 | - | - | - | | |
| Material of components | | | | | | | | |
| Pump housing and all wetted metal details | aluminium and cast iron | alu | minium, cast iron o | stainless steel AIS | I 316 | aluminium or AIS 316L | | |
| Centre block, alu and cast iron pumps | | alumir | nium (standard) or c | ast iron | | aluminium | | |
| Centre block, AISI 316 pumps | - | Р | P (standard), condu | ctive PP or alumini | um | PP or aluminiur | | |
| Diaphragms | | | NBR, FKM, PTFE, P | TFE 1705B or EPDM | l | | | |
| Valve balls | | NBR, PTFE, | AISI 316L****, EPDN | Л, polyurethane or | ceramic**** | | | |
| Air valve | Brass / NBR (standard) or AISI 316L / FKM or PET / NBR (standard on TX820) | | | | | | | |
| O-rings | | | | BR or FKM | | , | | |
| Gaskets | | Klir | ngerseal/NBR (stand | | PDM, | | | |
| Housing screws | | Steel on aluminiu | m and cast iron pun | | ainless steel pump | OS | | |
| Diaphragm shaft | | | | eel AISI 316 | | | | |
| Drum handle (TD pumps) | Sta | Stainless steel AISI 316 | | | | | | |

^{*} = Recommended flow is half of the max flow, i.e. recommended flow for a T120 is 79 l/min (20.8 US gpm).

^{**** =} Not available on TX820.



^{* =} Ask us for complete pump code with all available options and executions. Changes reserved without notice

^{** =} The value is based on pumps with EPDM diaphragms. Pumps with PTFE diaphragms have about 15% less volume.

^{*** =} This is max value with stainless steel valve balls, other valve ball materials may reduce the suction. Please consult us.

Sanitary series pumps

Hygienic design - made from electropolished stainless steel AISI 316L to meet the requirements in hygienic installations.



The Tapflo sanitary series is particularly designed to meet the requirements of the food, beverage, pharmaceutical and cosmetic industries.

Lubrication free air distribution system, maintenance free ball check valve system and total visual inspection of the wetted parts are some of the major features for this pump series.

The materials used on certain models comply with the FDA guidelines.

Models with extra fine surface finish Ra < 0.8 and Ra < 0.5 are available upon request.



EN 10204



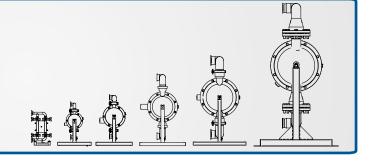






The sanitary pump range

- >> 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"



Typical applications

| | Sector | Example of applications | | | |
|-----------------|----------------|--|--|--|--|
| >> | Dairy products | Milk, cream, yogurt, cream cheese, melted cheese | | | |
| >> | Grocery | Ketchup, mayonnaise, tomato products, mustard | | | |
| >> | Beverages | Flavors, coloring, fruit juice | | | |
| >> | Bakery | Dough, ingredients | | | |
| >> | Brewery | Beer, flavors, coloring, wort | | | |
| >> | Hygiene | Soap, shampoo | | | |
| >> | Cosmetics | Cream, alcohol, perfume | | | |
| | | | | | |

The sanitary design

Made to be clean



The clamp system ensures rapid dismantling without any tools.

Variety of connection types

The pump is supplied as standard with SMS3017/ISO2037 TC clamp connections. However, the pump may be equipped with almost any type of connection used in the hygienic field – DIN 11851 thread, SMS 1145 milk thread, DIN 11864 aseptic connections to mention a few.

Pollution free air valve

The sealing system lubrication free, always keeping your product and environment free from oil contamination.



The sandwich diaphragm has a completely plain surface, which eliminates bacteria growth problems. The diaphragm is available in food grade materials -PTFE or white EPDM.

Superior finish

Both liquid side and outside is electropolished*, to obtain superior finish and hygiene. Special surface finish may be done according to your requirements.

Easy draining

Drain the pump by turning the pump in its support (T80-T825)

Our design allows for total visual inspection of the wetted parts. There are no hidden areas where bacteria can grow. The manifold clamps and the housing screws are simply removed for complete disassembly and cleaning. The pump is also designed for cleaning and sterilization in place — C.I.P. and S.I.P. After such operations, the pump is easily turned in its support for drainage.



^{*}T825 is glass blasted

Special versions







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.

>> Available on all sanitary series pumps

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.

Models available with flap valves:

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

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.

Counter-connections

In order to ease the pump connection with installation Tapflo has added a full range of counter-connections to sanitary pumps. They fit pumps with standard tri-clamp connection as well as optional DIN11851 and SMS connections.

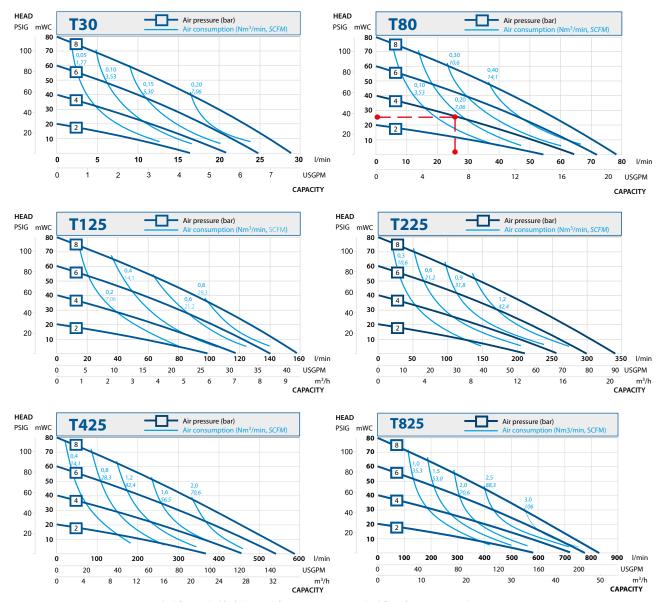
Performance curves

The performance curves are based on water at 20°C. Other circumstances might change the performance. See below how the capacity will change at different viscosities and suction lifts. These curves are valid for all sanitary pumps.

Example see the red line ← — — —

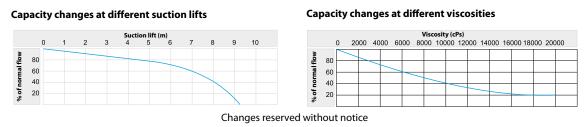
A flow of 25 litre/minute is desired.

The discharge head is calculated to 25 mWC. We choose a T80. It requires an air pressure of 4 bar and will consume approximately 0.20 Nm³ air per minute.



Recommended flow is half of the max flow, i.e. recommended flow for a T80 is 40 l/min (10.6 US gpm).

Capacity changes



Dimensions

Dimensions for sanitary series

Dimensions in mm (where other is not indicated) Dimensions in inch (where other is not indicated)

T30 T80-T825

- * = Dimensions for standard clamp connections only
- 1 = Clamp connections/pipes according to SMS3017/ ISO2037 (T425)
- 2 = Threaded connections according to DIN 11851
- 3 = Threaded connections according to SMS 1145

| Dim | | | Pump size | | | | | |
|-----|------------------|------|-----------|--------|-------|--------|--------|--|
| Dim | | 30 | 80 | 125 | 225 | 425 | 825 | |
| | | 169 | 295 | 320 | 404 | 468 | 750 | |
| | Α | 6.7 | 11.6 | 12.6 | 15.9 | 18.4 | 29.5 | |
| | D | 153 | 303 | 328 | 412 | 476 | 760 | |
| | В | 6.0 | 11.9 | 12.9 | 16.2 | 18.7 | 29.9 | |
| | _ | 313 | 393 | 458 | 647 | 808 | 1288 | |
| | D | 12.3 | 15.5 | 18.0 | 25.5 | 31.8 | 50.7 | |
| | _ | 240 | 294 | 350 | 528 | 664 | 1034.5 | |
| | E | 9.4 | 11.6 | 13.8 | 20.8 | 26.1 | 40.7 | |
| | _ | 34 | 10 | 10 | 10 | 10 | 20 | |
| | G | 1.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | |
| | | 30 | 30 | 30 | 30 | 30 | 60 | |
| | Н | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.4 | |
| | | 48 | 74.5 | 82.5 | 86.5 | 98.5 | 206.5 | |
| | I | 1.9 | 2.9 | 3.2 | 3.4 | 3.9 | 8.1 | |
| | TC ¹ | 1" | 1″ | 1 1/2" | 2" | 2 1/2" | 3″ | |
| | DIN ² | DN25 | DN25 | DN40 | DN50 | DN65 | DN80 | |
| J | SMS ³ | 25 | 25 | 38 | 51 | 63.5 | 76.1 | |
| | RJT | 3/4" | 1″ | 1 1/2" | 2" | 3″ | 3 1/2" | |
| | au. | 9 | 9 | 9 | 9 | 9 | 25x13 | |
| | ØK | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1x0.5 | |
| | L | 1/8" | 1/4" | 1/4" | 1/2" | 1/2" | 1/2" | |
| , | × 1 1 × | 50.5 | 50.5 | 50.5 | 64 | 91 | 98 | |
| Ç | ðM* | 2.0 | 2.0 | 2.0 | 2.5 | 3.6 | 3.9 | |
| , | 3NI* | 22.6 | 22.6 | 35.6 | 48.6 | 66.8 | 72.9 | |
| , | ØN* | 0.9 | 0.9 | 1.4 | 1.9 | 2.6 | 2.9 | |
| | V | 125 | 275 | 300 | 384 | 448 | 710 | |
| | Χ | 4.92 | 10.83 | 11.81 | 15.12 | 17.64 | 27.95 | |

General dimensions only, ask us for detailed drawings. Flap valve pumps are not shown here, ask us for drawings.

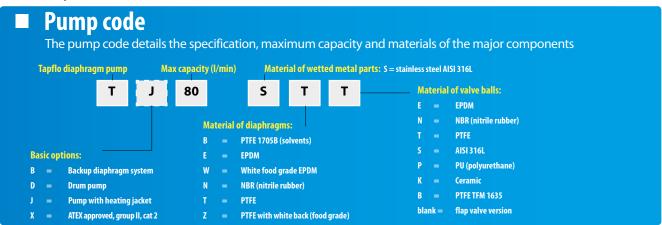
Technical data

| | | | Tiup vuiv | e pamps are not s | nown nere, ask a | o for arawings. | | | |
|--------------------------------------|-----------|-----------------------|----------------------|----------------------|------------------|--------------------------|--|--|--|
| Technical data | Pump size | | | | | | | | |
| recinical data | 30 | 80 | 125 | 225 | 425 | 825 | | | |
| Max capacity (I/min) / (US gpm) | 30/ 7.9 | 80/ 21 | 125 / 33 | 225 / 59 | 425/ 112 | 825 / 218 | | | |
| *Volume per stroke (ml) / (cu in) | 120 / 7.3 | 320 / 19.5 | 515 / 31.4 | 1415 / 86.4 | 2600/158 | 4500 / 275 | | | |
| Max discharge pressure (bar) / (psi) | 8 / 116 | 8/116 | 8/116 | 8/116 | 8/116 | 8/116 | | | |
| Max air pressure (bar) / (psi) | 8 / 116 | 8/116 | 8/116 | 8/116 | 8/116 | 8/116 | | | |
| **Max suction lift dry (m) / (Ft) | 2/6.6 | 3 / 9.8 | 4 / 13 | 5/16 | 5/16 | 4/13 | | | |
| Max suction lift wet (m) / (Ft) | 8 / 26 | 8/26 | 9 / 29.5 | 9 / 29.5 | 9 / 29.5 | 9 / 29.5 | | | |
| May size of solids (g in man) / (in) | 2 / 0 12 | 4 / 0 16 | 6 / 0.24 | 10 / 0.39 | 15 / 0.59 | 20 / 0.59 | | | |
| Max size of solids (ø in mm) / (in) | 3 / 0.12 | 4 / 0.16 | 6 / 0.24 | 51 / 2*** | 51 / 2*** | 100 / 4*** | | | |
| Max temperature (°C) / (°F) | 110 / 230 | 110 / 230 | 110 / 230 | 110 / 230 | 110 / 230 | 110 / 230 | | | |
| Weight (kg) / (lb) | 4/9 | 8 / 18 | 11 / 24 | 21 / 46 | 35 / 77 | 133 / 293 | | | |
| Wetted metal details | | Stainless st | eel AISI 316L electr | o polished (T825 gl | ass blasted) | | | | |
| Centre block (not wetted) | | | PP, PP co | onductive | | | | | |
| Diaphragms | | PTFE, PTFE with | white back, EPDM, | white EPDM, NBR | | PTFE (FDA) EPDM (FDA) | | | |
| Valve balls | | | PTFE, EPDM, NBR, A | AISI 316, PU, Cerami | С | | | | |
| Air valve | Br | ass (std.), stainless | steel AISI 316L or F | ET with NBR (std.), | EPDM or FKM O-ri | ngs | | | |
| Sealings (wetted) | | | PTFE o | or EPDM | | | | | |
| Housing pin screws | | | Stainless st | teel AISI 316 | | | | | |
| | | | | | | | | | |

Stainless steel AISI 316

- * = The value is based on pumps with EPDM diaphragms. Pumps with PTFE diaphragms have about 15% less volume.
- ** = This is max value with stainless steel valve balls, other valve ball materials may reduce the suction. Please consult us.
- *** = Flap valve version

Diaphragm shaft



^{* =} Ask us for complete pump code with all available options and executions. Changes reserved without notice

Aseptic EHEDG series pumps

Keeping your process clean.



Tapflo Aseptic series pumps are designed for service in pharmaceutic-, 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/EC.

Typical applications

| | Industry | Example of applications |
|-----------------|---------------------------|--|
| >> | Food & dairy | Soup, cream, syrup, dairy products, flavoring, alcohol, chocolate, paste |
| >> | Pharmaceutics & cosmetics | Cream, paste, alcohol and filtration gel |













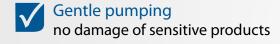




Features & Benefits







Wide range of connection types TriClamp, sanitary threads (DIN, SMS)

Hygienic surfaces housings made from electro polished stainless steel AISI 316L, Ra < 0.8 (standard) or Ra < 0.5 (on request)

No leakage no rotating shaft seals

Flexible installation self-priming

Reliable in service can run dry and against closed valve without damage

Environmental friendly lube free air valve

Hygienic diaphragms designed without any nuts or plates on the pumped side

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 clean ability tested, which means bacteria does not grow in the pump after cleaning and draining procedure.





Keeping your process clean

Smooth surfaces and clean ability are important keys for the EHEDG certification

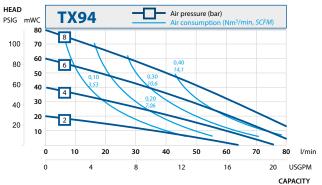
Technical data

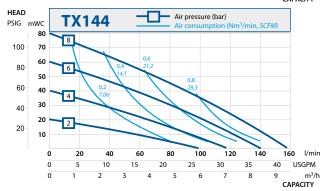
| Data | | | | | | | | |
|------------------|---|-------------------------|--------------------------|--|--|--|--|--|
| Model | TX94 | TX144 | TX244 | | | | | |
| Max flow | 94 l/min | 144 l/min | 330 l/min | | | | | |
| Max pressure | 8 bar | 8 bar | 8 bar | | | | | |
| Max air pressure | 8 bar | 8 bar | 8 bar | | | | | |
| Dry suction lift | 2 m | 3 m | 4.4 m | | | | | |
| Max solid size | 6 mm, bigger if soft | 6 mm, bigger if soft | 10 mm, bigger if soft | | | | | |
| Temperature | -20° +1 | 110°C (temporar | y higher) | | | | | |
| Weight | 15 kg | 15 kg 22 kg 46 | | | | | | |
| Connections | Triclamp (standard), SMS, DIN and RJT threads, DIN 11864 clamp | | | | | | | |
| ATEX details | Group II, cat 2, T4 | | | | | | | |

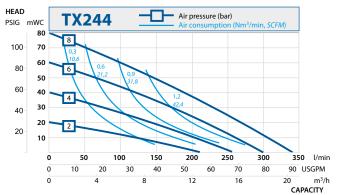
| AT EX actails | Group II, cut 2, 14 |
|-----------------------|--|
| Materials and op | tions |
| Housing, manifolds | AISI 316L, Ra < 0.8 Ra < 0.5 on request |
| Diaphragms | PTFE (FDA & USP VI) PTFE 1705B (solvents, FDA & USP VI) EPDM (FDA on request) White EPDM (FDA) PTFE with white back (FDA & USP VI) |
| Valves (ball type) | PTFE (FDA) PTFE (USP VI & FDA) EPDM (FDA on request) AISI 316L |
| O-rings | EPDM (FDA) EPDM (USP VI & FDA) FEP/FKM (FDA) |
| Options | Backup diaphragm system |

Changes reserved without notice

Performance curves







| | Pump size | | | | | | | | | | | |
|-----|-----------|-------|-------|--|--|--|--|--|--|--|--|--|
| Dim | TX94 | TX144 | TX244 | | | | | | | | | |
| Α | 260 | 280 | 360 | | | | | | | | | |
| В | 275 | 278 | 340 | | | | | | | | | |
| E | 447 | 488 | 700 | | | | | | | | | |
| Н | 185 | 188 | 270 | | | | | | | | | |
| J | DN 40 | DN 50 | DN 65 | | | | | | | | | |

Dimensions in mm (where other is not indicated)





TC Intelligent pumps are fitted with ingenious LEAP® technology developed by Tapflo.

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.

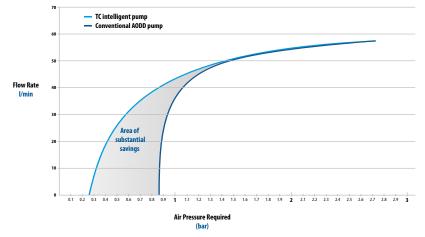
LEAP uses a unique indirect system to detect the position of the diaphragm shaft controlling the diaphragm movement automatically.

■ Features & Benefits

- Available in Plastic, Metal and Sanitary series AODD pumps
 TC50 TC425 (T50 T425 equivalent)
- Retrofit
 Leap can be fitted to any existing
 Tapflo Air Operated Diaphragm Pumps
- Batch Dispensing allowing the pump to automatically stop after the required volume has been dispensed.
- Improved Lifespan the TC series uses an air valve that has a significantly longer life expectancy over rubber seal technology.
- by analysing the frequency of pulses, the pump can analyse when it is running dry.

- Noise Reduction ability to utilise lower air pressure reduces the noise of the pump
- Electrical feedback signal allows for external monitoring of the pump process.
- Improved Maintenance main air valve can be changed in under two minutes without the removal of the pump from the process line.
- Control Simplification no need for an external pneumatic solenoid valve, reducing costs and simplifying control.
- Dead Heading as with dry running, the frequency of pulses can be monitored, alerting if the pump has a blockage.

Graph showing fluid flow against air pressure required



The pump fitted with LEAP® Technology is able to start pumping at 0.3 bar without stalling, in test the pump was already achieving flow rates of 70% of its maximum open end flow before other pumps had even started.

Filter press pumps - TF series

The Tapflo pump station for filter press feeding is a very compact unit that can be mounted directly to the filter press.



TF series

The design and function allows the user a straightforward pressing of slurries. Pressure regulator is already mounted to the unit.

An external pressure booster doubles the delivery pressure. For example, with available air pressure of 7 bar, the delivery pressure will be maximum 14 bar.

The pump stations are based on the standard Tapflo pumps:

PE & FTFE: TF 50 | TF 100 | TF 200 | TF 400 Metal pumps: TF 70 | TF 120 | TF 220 | TF 420

Features & Benefits

- Can run dry
- Self priming
- High pressure transmission up to 1:2

- Few parts easy to maintain
- Long service life
- Reliable and compact

The Installation

Adding a pump to an existing filter press was never such easy. **Just mount it on the filter press and connect it.** The pump is already equipped with a pressure booster, manometers, regulation knob and all essential hoses and fittings.



Technical data

| Pump size | Connection size (" BSP or NPT) | *Max capacity (I/min) / (US GPM) | Max pump pressure (bar) / (PSI) |
|-----------------|-----------------------------------|-------------------------------------|------------------------------------|
| TF 50 TF 70 | 1/2" 3/4" | *60 / 15.8 | 16/ 232 |
| TF 100 TF 120 | 1" | *125 / 33 | 16 / 232 |
| TF 200 TF 220 | 1 1/2" | *330 / 87 | 12 / 174 |
| TF 400 TF420 | 2" | *570 / 150 | 12/ 174 |

^{* =} This max flow is obtained when using a bypass round the pressure booster at low pressure

Powder pumps - TP series



Reduced contamination

The powder is transferred in a hermetic system from the powder container to your process.

Economical and compact solution

The Tapflo powder transfer pump can do the same job as many complex and large powder systems. The compact design also makes the unit portable.

What kind of powders?

The powder transfer pump will handle different types of process powders, with specific weight from 80 up to 720 kg/m³ dry weight. Generally, if the powder does not clump together when squeezed in hand, the Tapflo powder transfer pump can be used successfully. A few examples of common powders are sintering powder, carbon black, resins and silicones.

Capacity

The capacity of the powder transfer is extremely different from one powder to another, depending on the consistency and weight etc.



EN 10204

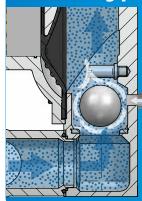












No start up problems

The air induction system eliminates powder pack up problems when starting the pump.



Air is induced to the powder side of the pump for diffusion of the powder. The induction flow can manually be adjusted by means of a needle valve to obtain a optimum performance.

Features & Benefits



Economical

compared with other complex powder systems



Convenient

and safer than manual powder handling

Technical data

| Model | TXP120 | TXP220 | TXP420 | | | | | | |
|-----------------------|---|--|--------------------------------------|--|--|--|--|--|--|
| In/outlet connections | 1" BSP threads (NPT upon request) | 1 1/2" BSP threads (NPT upon request) | 2" BSP threads (NPT upon request) | | | | | | |
| Features | Co | mplete air induction system includ | ed | | | | | | |
| Explosion protection | ATEX marked according to group IIG (gas) / IID (dust), category 2 | | | | | | | | |
| Housing material | PTFE coated aluminium | | | | | | | | |
| Diaphragm material | EPDM (NBR or PTFE upon request) | | | | | | | | |
| Valve material | EPDM | (NBR, PTFE, AISI 316 or PU upon re | quest) | | | | | | |
| In/outlet material | | Stainless steel AISI 316L | | | | | | | |
| | | | | | | | | | |

Pharmaceutical pumps - TU series

USP VI approved pharmaceutical series pumps 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 PE pump, features all wetted parts in USP class VI certified materials.

Simplicity

Pump housing with only three parts makes it extremely easy to maintain.

Superior finish

High finish and hygienic approved materials.













The Pharmaceutical series pumps

- >> TU53 PTT-5UVI
- TU103 PTT-5UVI
- >> THU203 PTT-5UVI
- THU403 PTT-5UVI

60 l/min; 3/4" 125 l/min; 1" 330 l/min; 1 1/2" 570 l/min; 2"

Features & Benefits

- Sanitary design smooth internal surfaces
- **Inert materials** no contamination of the pumped product

- **USP class VI** approved materials
- Extremely easy to maintain pump housing with very few components

Active pulsation dampeners

The Tapflo pulsation dampener works actively with compressed air and a diaphragm, automatically setting the correct pressure to minimise the pulsations.



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.

Explosion proof models are available

Certified according to directive 2014/34/EC (ATEX), group II, cat 2, for use in EX-zone 1. Contact us for information.



EN 10204



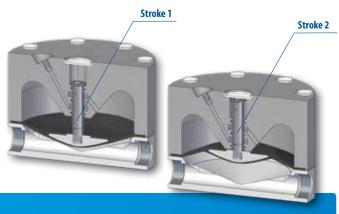


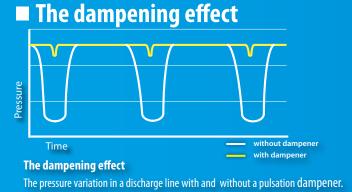




Working principle

When the pressure in the piping system decreases, due to the pulsating nature of the pump operation, the pulsation dampener supplies extra pressure to the discharge between the pump strokes, therefore supplying a steady flow of pumped medium. This pumping action created by the dampener, decreases the pressure variations and pulsations.





- Minimized vibrations and water hammer effects
- Protection of all kinds of instruments in your piping system
- Optimized pump performance and reduced maintenance costs





■ Pulsation dampener with stand



■Pulsation dampener with pump



■Pulsation dampener with guardian

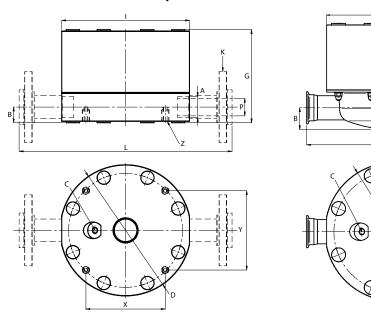


■TK built-on dampener

Dimensions

PE, PTFE & aluminium dampeners

Stainless steel and sanitary dampener



Dimensions in mm (where other is not indicated)

| Dimensions in inch (where other is not indicated)

| Dimension | | | | | | | | | Di | ampener siz | e | | | | | | | | |
|---------------------------|-----------------------|--------|-----------|----------------------|------------------------|--------------|----------------------|------------------------|--------------|--------------------------------|------------|--------------|------------------------|------------------------|-------------|---------------------|-------|--------|----------|
| | 9/20 | 25 | 30 | 50 | 70 | 80 | 100 | 120 | 125 | 200 | 220 | 225 | 400 | 420 | 425 | 800 | 820 A | 820 S | 825 |
| BSP | G 3/8" | G 1/2" | G 3/8" | G 1/2" | G | 3/4" | | G 1" | | | G 1 1/2" | | | G 2" | | - | G 3" | - | - |
| DIN Flange ANSI Flange | 95 | - | 95 | 95 | 105 | - | 115 | 115 | - | 150 | 150 | - | 165 | 165 | - | 202 | - | 202 | - |
| SMS3017/ISO2037 | - | - | 50,5 | - | - | 50,5 | - | - | 50,5 | - | - | 64 | - | - | 91 | - | - | - | - |
| DIN 118513 | - | - | Rd 44x1/6 | " - | - | Rd 52 x 1/6" | - | - | Rd 65 x 1/6" | - | - | Rd 78 x 1/6" | - | - | Rd 95 x 1/6 | " - | - | - | Rd 110 x |
| _ | 15/33 ¹ | 15 | 10,6 | 17/32,41 | 16,5 | 16,5 | 25,5/45 ¹ | 25 | 16,5 | 33/50 ¹ | 41 | 41 | 41/61 | 41 | 46 | 92 | 92 | 19,3 | 19,3 |
| В | 0,59/1,31 | 0,59 | 0,42 | 0,67/1,271 | 0,65 | 0,65 | 1/1,771 | 0,98 | 0,65 | 1,29/1,971 | 1,61 | 1,61 | 1,61/2,40 ¹ | 1,61 | 1,81 | 3,62 | 3,62 | 0,76 | 0,76 |
| C | | G 1/4' | | | G 1/4" | | | G 1/4" | | | G 1/4" | | | G 1/4" | | | | G 1/4" | |
| _ | | 110 | | 158 | | | 208 | | 277 | | 360 | | | 470 | | | | | |
| D | | 4,33 | | 6,22 | | 8,19 | | 10,91 | | 14,17 | | | 18,50 | | | | | | |
| _ | 85 / 103 ¹ | 85 | 79 | 109/132 ¹ | 117/109 ² | 116,5 | 148/161,51 | 135/144,5 ² | 135 | 200/217,51 | 213/200,52 | 209 | 244/261 ¹ | 256/243,5 ² | 255 | 394 | 392 | 330 | 330 |
| G | 3,35 / 4,061 | 3,35 | 3,11 | 4,29/5,201 | 4,61/4,29 ² | 4,59 | 5,83/6,361 | 5,31/5,692 | 5,31 | 7,87/8,561 | 8,39/7,892 | 8,23 | 9,61/10,281 | 10,08/9,592 | 10,04 | 15,51 | 15,43 | 12,99 | 12,99 |
| I | 107 | | 155 | | 203 | | 270 | | | | | 470 | 450 | | 470 | | | | |
| | | 4,21 | | | 6,10 | | | 7,99 | | | 10,63 | | | 13,86 | | 18,50 | 17,72 | | 18,50 |
| BSP | G 3/8" | G 1/2' | - | G 1/2" | G 3/4" | - | G 1" | G 1" | - | G 1 1/2" | G 1 1/2" | - | G 2" | G 2" | - | - | G 3" | - | - |
| DIN Flange ⁴ | DN15 | - | DN 15 | DN15 | DN 20 | - | DN25 | DN 25 | - | DN40 | DN 40 | - | DN50 | DN 50 | - | DN80 | - | DN80 | - |
| ANSI Flange ⁴ | 1/2" | - | 1/2" | 1/2" | 1/2" | - | 1" | 1" | - | 1 1/2" | 1 1/2" | - | 2" | 2" | - | 3" | - | 3" | - |
| SMS3017/ISO2037 | | - | DN 25 | | - | DN 25 | - | - | DN 38 | | - | DN 50 | | | DN 70 | - | - | - | _ |
| DIN 118513 ⁵ | - | - | DN25 | - | - | DN 25 | - | - | DN 40 | - | - | DN 50 | - | - | DN 65 | - | - | - | DN 8 |
| DIN & ANSI | 235 | | - | 28 | 35 | - | 3 | 75 | | 45 | 0 | - | 5 | 50 | - | 700 | - | 700 | - |
| Flange | 9,25 | | - | 11, | | - | | ,76 | - | 17, | | - | | ,65 | - | 27,56 | | 27,56 | |
| | 107 | | | 155 - | | 203 - | | - | | | - | | 52 | - | - | 450 | - | | |
| BSP | 4,21 - | | 6,10 - | | 7,99 | | _ | 10,63 | | - | 13,86 | | - | T . | 17,72 | | | | |
| Other | - 180 | | ٠, | | 210 | | - | | - | | 350 | - | | 450 | - | - | - | 600 | |
| Connections ³ | _ | | 7,09 | | | 8,27 | - | | 300 11,81 | - | | 13,78 | _ | | 17,72 | - | - | - | 23,62 |
| | 14 | - | 17,3 | 14 | 22,9 | - | 26 | 29,7 | | 45,4 | 44,3 | - | 51,4 | 56,3 | , | 80 | - | 80 | 25/02 |
| DIN Flange ⁴ | 0.55 | - | 0.68 | 0,55 | 0.90 | - | 1.02 | 1.17 | - | 1.79 | 1.74 | - | 2.02 | 2.22 | - | 3,15 | - | 3.15 | _ |
| | 14 | - | 17.3 | 14 | 22,7 | - | 26 | 30.1 | _ | 45.4 | 42.8 | - | 51.4 | 54,8 | - | 80 | - | 80 | |
| ANSI Flange ⁴ | 0,55 | - | 0,68 | 0,55 | 0,89 | _ | 1,02 | 1,19 | - | 1.79 | 1,69 | - | 2,02 | 2,16 | - | 3,15 | - | 3,15 | _ |
| SMS3017/ | - | - | 22,6 | - | - | 22,6 | - 1,02 | 1,12 | 35,6 | - 1,7 5 | | 49 | - | 2,10 | 66,8 | - | | - | _ |
| ISO2037 ⁵ | _ | - | 0.89 | - | _ | 0,89 | _ | _ | 1.40 | - | _ | 1,93 | - | _ | 2,63 | - | - | - | _ |
| 1502057 | _ | - | 20 | - | _ | 26 | _ | _ | 38 | _ | _ | 50 | _ | _ | 66 | - | - | - | 81 |
| DIN 1185135 | _ | - | 0.79 | - | _ | 1.02 | _ | _ | 1.50 | _ | _ | 1,97 | | | 2,60 | | | - | 3.19 |
| Х | 36 | | - | 90 | | - 1,02 | 11 | | - | 16 | | - 1,27 | | 6,3 | | | 297 | | 3,13 |
| | 1,42 | | 3,56 | | 113,8 - 4,48 - | | 167,6 - 6,60 - | | | 8.91 - | | 11,69 | | | _ | | | | |
| | 86,8 | | 100,3 | | | | _ | | | _ | 226,3 | | 297 | | | | | | |
| Υ | | | | 3,9 | | - | | | | | | - | | | - | | 11,69 | | |
| | 3,42 - | | 3, | 7.7 | - | 5/5 . | | - | 0,00 | | 8,91 | | - | | | | - | | |
| Z | M4x2 | 20 | - | M4: | x20 | - | M8x30 PE | | | M8x22 PTFE M8x22 PE M8x25 - | | - | M8x22 PTFE M8x30 PE | | | M8x22 PTFE M8x25 | | | - |

Dampener code The details, specification, size and materials of the major components. Material of diaphragm: DT - Tapflo active For Tapflo pump S = stainless steel AISI 316L T = PTFE pulastion dampener X = ATEX approved, size (l/min) E = EPDMA = aluminium B = PTFE 1705B (solvents)
W = White (food grade) EPDM group II, cat 2 = polyethylene N = NBR (nitrile rubber) T = PTFE
Z = PTFE with white back DT X 50 T

Systems & accessories

Guardian systems



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.



Barrier Protection

Barrier pumps (TB) have an additional set of diaphragms used to back-up 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.

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.

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.

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.

For further details, please check the separate brochure systems & accessories for pumps





Control systems

Pneumatic level control



This ingenious system is operated with pneumatic components only to start (automatic with TPUK-LA or manual with TPUK-LM) and automatic stop the pump at certain liquid levels.

The level control may be installed in sumps, tanks or tubs.

Pneumatic batch control



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

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.

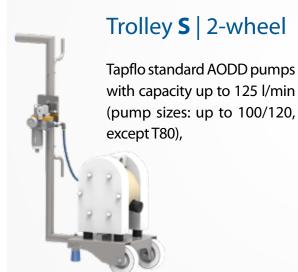
Life counter TPUK-LC



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.

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.



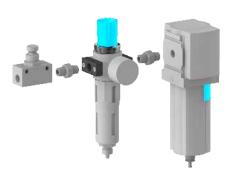


Trolley M | 4-wheel

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

For further details, please check the separate brochure systems & accessories for pumps

Filter regulator & needle valve kit



There are many benefits of using an individual filter regulator and needle valve for your AODD pump. You will always be able to run the pump with right air quality and optimum pressure and speed to save energy. Furthermore the lifetime of pump components will increase. The kit includes a filter regulator, gauge, wall bracket, needle valve, and/ or water separator. The filter is 5 micron and regulator is 0-12 bar, available in sizes 1/8" up to 3/4".

Pneumixer

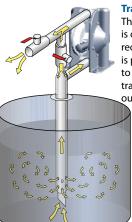


The Pneumixer was predominantly developed for the paint and ink industry where most raw materials in drums or containers settle out over time and need to be mixed or blended prior to use. This usually means rolling, shaking or pumping to a mixing vessel; that adds time, waste, mess and expense.

Features & Benefits

- ✓ No paddles
- No rotating blades
- ✓ Variable agitation
- Suits all containers up to 1000 litre IBC
- No moving parts utilises pump power to mix & dispense
- Eliminates problems with conventional mixing

- No air entrainment
- No shear
- Closed vessel mixing system
- Fully controllable pneumatic operation and control
- Reduced environmental exposure
- No need for pumping to mixing vessel

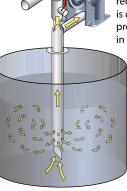


Transfer mode The discharge valve is open and the

is open and the recirculation valve is partially open, to both mix and to transfer the product out of the Pneumix

Mixing mode

The discharge valve is closed and the recirculation valve is open, to allow the product to circulate in the container.



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