

# TECHNIFLO

## Drum and Container Pump Catalogue



### TP Series

TP-125	TP-AIR 1
TP-128	TP-AIR 2
TP-132	TP-AIR 3
TP-160	TP-700 SR
TP-180	TP-700 DRE
TP-200	TP-700 DRA
TP-280	
TP-300	
TP-400 Ex	
TP-500 SM	

Barrel pumps are lightweight, handy and extremely powerful devices suitable for transferring thin to low viscous, neutral or corrosive liquids. Designed for portable and static use the pumps are particularly suitable for intermittent operation. The state of the art and yet simple technical design assures sound and reliable operation. Because of our modular concept every motor can be combined with every pump tube.



The delivery rate can be regulated in accordance with your needs. An electronic power regulator is available for this purpose as an option (speed control).

## TP - 125 128,132



Lab pump, lightweight, handy. Suitable for pumping low volumes of acid and alkaline liquids from drums and containers with narrow neck.

Pump tube can be combined with an air motor or any other TECHNIFLO motor.

Double isolated, category II, Splash-proofing, to IP24.

On/off switch  
Thermo - protection

## TP - 160



Lightweight barrel and container pump. Suitable for pumping fluid, neutral and non flammable liquids.

With electronic speed control available as an option.

Double isolated, category II, Splash-proofing to IP24.

On/off switch  
Overload protection switch

Pump Type
Pump Tube Type
Flow Rate (l/min)
Head Rotor/ Impeller (m)
Max Viscosity (mPas)
Tube Diameter (mm)
Tube Length (mm)
Construction
Motor Power (W)
Motor Voltage (V/Hz)
Weight (kg)

TP-125,128,132
PP/SS 316Ti
22/30/40
4
200
25/28/32/ PP 28/32 SS
500/700/1000/1200
seal less
250 (universal motor)
240/50
2-4

TP-160
PP/PVDF/SS316 Ti/Al
80
6/12
300
41
700/1000/1200/1500+
seal less (ss with Ø41 mech seal)
400 (universal motor)
240/50
7-10

### Examples of Liquids

Hydrochloric acid, soda lye, sulphuric acid, formic acid, sal ammoniac, photo developer, lime potash, fixing baths, acetic acid, phosphoric acid, fruit acids, nitrous acid, hydrofluoric acid, bleaching solution, water, lactic acid, boric acid, chromic acid, soap solutions and a wide variety of other liquids.

**For flammable liquids and for use in explosive surroundings ex - proof drum pumps with necessary accessories can be supplied. Motor and pump tube require ATEX approval.**

### Mixing Pump Tube - Double function

For pumping and mixing, seal less pump tubes made of PP with tube Ø50mm and lengths of 1m for 200 litre drums and 1.2m for containers are available. SS mixing pump tube is certified to conform to ATEX. SS pump tube (appvd) only allowed for flammable liquids in explosive areas.



## TP - 180



Lightweight barrel and container pump. Suitable for pumping fluid acids and bases, neutral, aggressive and non flammable liquids.

With electronic speed control available as an option.

Double isolated, category II, Splash-proofing to IP24.

On/off switch  
Overload protection switch

TP-180
PP/PVDF/SS316 Ti/Al
150
8/21
600
41
700/1000/1200/1500+
seal less (ss with Ø41 mech seal)
600 (universal motor)
240/50
7-10

## TP - 200



Lightweight barrel and container pump, Suitable for pumping fluid acids and bases, neutral, aggressive and non flammable liquids.

With electronic speed control available as an option.

Double isolated, category II, Splash-proofing to IP54.

On/off switch  
Overload protection switch

TP-200
PP/PVDF/SS316 Ti/Al
150
8/21
600
41
700/1000/1200/1500+
seal less (ss with Ø41 mech seal)
500 (universal motor)
240/50
7-10

## TP - 280



Powerful barrel and container pump, solid construction, also for pumping lightly viscous media, acids and bases, neutral, aggressive and non flammable liquids.

With electronic speed control available as an option.

Double isolated, category II, Splash-proofing to IP24.

On/off switch  
Overload protection switch

TP-280
PP/PVDF/SS316 Ti/Al
200
14/28
1000
41
700/1000/1200/1500+
seal less (ss with Ø41 mech seal)
825 (universal motor)
240/50
7-10

### Technical Data

All physical values given are maximum values. The capacity of the respective pumps refers to water at 18° C and free flow (without hose barb).

### Seal less pump tubes

All pump tubes will be supplied with:

- a hose connection
- a 25mm stainless steel hose clamp
- up to 1200 mm card
- wall hanger

## TP - 300



Powerful barrel and container pump, solid construction, also for pumping lightly viscous media, acids and bases, neutral, aggressive and non flammable liquids.

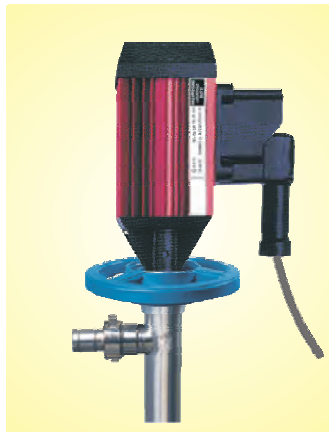
With electronic speed control available as an option,

Double isolated, category II, Splash-proofing to IP54.

On/off switch  
Overload protection switch

TP-300
PP/PVDF/SS316 Ti/Al
200
14/28
1000
41
700/1000/1200/1500+
seal less (ss with Ø41 mech seal)
825 (universal motor)
240/50
7-10

## TP - 400 Ex



Ex protected, high power barrel and container pump, solid construction, also for pumping lightly viscous media, acids and bases, neutral, aggressive and non flammable liquids.

EC Type Examination  
Cert No. DEMKO O3  
ATEX 135563X

EEx de IIA T6  
Splash-proofing to IP54.

On/off switch  
Overload protection switch

TP-400 Ex
PP/PVDF/SS316 Ti/Al
100
8/20
600
41
700/1000/1200/1500+
seal less (ss with Ø41 mech seal)
550 Ex
240/50
12-15

## TP - 500 SM



Barrel and container pump, 3 phase motor with planetary gear 1:4 for longer operation times, to pump lightly viscous media, acids and bases, neutral, aggressive and non flammable liquids.

Can be combined with every pump tube.

Three phase motor 3000rpm and cable terminal box.

Hose proofing to IP55.

TP-500 SM
PP/PVDF/SS316 Ti/Al
120
10/22
600
41
700/1000/1200/1500+
seal less (ss with Ø41 mech seal)
0.37 or 0.55kW 3 Ph
240~400/50
12-15

For different applications depending on the liquids, pump tubes are available in PP, PVDF, SS 316Ti and Aluminium. The pump tubes are connected to the motor via a hand-wheel and can be fitted and removed with a few rotations, fast and easy without the need of any special tools.

- Pump tubes with axial-flow rotor will be used for high delivery rate and low head.
- Pump tubes with radial-flow impeller are the right choice for low delivery rate with high head,



Pneumatic and Barrel and Container Pumps are lightweight, handy and extremely powerful devices suitable for use with nearly all fluid and medium viscous liquids. Their state of the art and yet simple technical design assures sound and reliable operation. Because of our modular concept every motor can be combined with every pump tube.

Designed for portable and static use, the pumps are particularly suitable for intermittent operation.

Those pumps fitted with compressed air motors and stainless steel pump tubes provide a particularly high level of safety when pumping or filling lightly flammable liquids of various danger classes from one container to another.

For pump tubes, examples of liquids and electric drum and container pumps see page 1 - 3.

## TP-AIR 1



Lightweight, handy barrel and container pump suitable for pumping fluid media.

EC Type Examination  
Cert No IBEx U05  
ATEX B007 X

TP-AIR 1 compressed air motor with brass ball valve for compressed air control. This regulates the motor speed and varies the pumping capacity.

## TP-AIR 2



Lightweight, handy barrel and container pump suitable for pumping fluid and lightly viscous media.

An ATEX version with 600 W is also available.

TP-AIR2 compressed air motor with starting button on the handle. The motor starts running and the pump is transferring liquids when the button is pressed.

Pump Type
Pump Tube Type
Flow Rate (l/min)
Head Rotor/ Impeller (m)
Max Viscosity (mPas)
Tube Diameter (mm)
Tube Length (mm)
Construction
Motor Power
Weight (kg)

TP-AIR 1
PP/PVDF/SS316 Ti/Al
90
10/24
400
41
700/1000/1200/1500+
seal less (ss with mech seal)
300W at max 6 Bar operating pressure
3-5

TP-AIR 2
PP/PVDF/SS316 Ti/Al
120
10/27
600
41
700/1000/1200/1500+
seal less (ss with mech seal)
700W at max 6 Bar operating pressure
3-5

### Technical Data

All physical values given are maximum values. The capacity of the respective pumps relates to water at 18° C and free flow (without hose barb).

## TP-AIR 3



Handy, powerful barrel and container pump suitable for pumping fluid and lightly viscous media.

EC Type Examination  
Cert No IIBEx U05

ATEX B007 X

TP-AIR 3

compressed air motor, St/St housing, with plug valve at air intake for compressed air control. This regulates the motor speed and varies the pumping capacity.

TP-AIR 3
PP/PVDF/SS316 Ti/Al
120
10/27
600
41
700/1000/1200/1500+
seal less (ss with mech seal)
400W at max 6 Bar operating pressure
4-5

## TP-700 SR



Universal, solidly built, handy and powerful pump. For fluid to viscous liquids such as paint, varnish, oil, soap, washing liquids, fruit juice, jam, etc.

Driven by universal motor, TP-280 or compressed air motors TP-AIR 2 and TP-AIR 3.

Pump tube with planetary gear (15:1).

TP-700 SR
SS316 Ti
12/25/50
60 single stage/120 double stage
20
54
700/1000/1200-2000
Mechanical seal or gland
f.e. 825 W Stator: NBR, NBR light, Hypalon, Viton, EPDM, PTFE
6-14

## TP-700 DRE

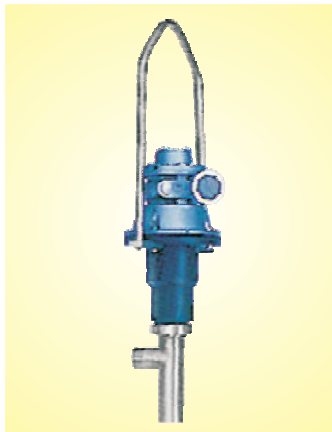


Powerful high viscosity pump for permanent operation. For pumping highly viscous to fluid substances such as latex-based paint, glue, cream, paste, gel, chocolate mass, honey, etc.

Driven by three-phase motors with 0.37/0.55/0.75 or 1.1 kW at 700 rpm or 900 rpm. With pump hanger, flexible or rigid coupling.

TP-700 DRE
SS316 Ti
12/25/50
60 single stage/120 double stage
20
54
700/1000/1200-2000
Mechanical seal or gland
0.37-2.2 kW Stator: NBR, NBR light, Hypalon, Viton, EPDM, PTFE
15-30

# TP-700 DRA



Versatile, solidly built and powerful eccentric screw pump for fluid to highly viscous media such as sediment, pastes, soap, shampoo, honey, syrup, jam, ketchup, etc.

Driven by compressed air motors

- TP-AIR 4 (0.5 kW)
- 6 (1.0 kW)
- 8 (1.5 kW).

With pump hanger, flexible or rigid coupling.

TP-700 DRA
SS316 Ti
12/25/50
60 single stage/120 double stage
100
54
700/1000/1200-2000
Mechanical seal or gland
0.5-1.5 kW Stator: NBR, NBR light, Hypalon, Viton, EPDM, PTFE
15-25

### Technical Data

All physical values given are max values. The capacity of the respective pumps relates to water at 18° C and free flow (without hose barb).

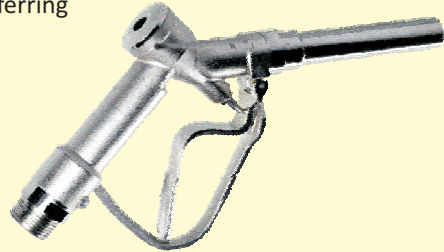
Higher flow rates, horizontal versions or dosing pumps can be offered on request.

# ACCESSORIES

### Nozzle, brass nickel plated, Teflon seal, rotating joint.

Ideally suitable for filling and transferring liquids also in the food and pharmaceutical industry.

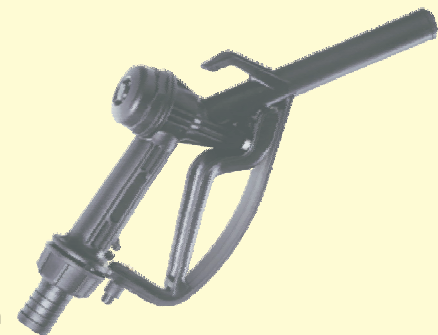
- Working pressure: max. 4 bar
- Viscosity: 750 mPas
- Flow rate: max. 80 l/mm.
- Liquid temperature: max. 80°C
- Weight: 1.4 kg
- Hose connection: 25mm or 32mm



### Nozzle, Polypropylene

Housing and internal pieces in black polypropylene PP, valve seats and O-rings are in Viton (FPM), spring in Titanium.

- Working pressure: max. 2 bar
- Viscosity: 750 mPas
- Flow rate: max. 100 l/mm.
- Liquid temperature: max. 50 °C
- Hose connection: 19mm or 25mm
- Weight: 0.26 kg



### Strainer, Polypropylene

### Strainer, Stainless Steel

Recommended when pumping dirty or contaminated liquids with abrasive particles.



### Barrel adaptors, PP

- Ø41 mm
- Ø32mm

### Barrel adaptors, Stainless Steel

- Ø41 mm
- Ø32mm



### Emission proof drum adapter

- PP
- Brass
- SS 316Ti

The adapter prevents emission of harmful gases and vapours out of the drum.

### Electronic Flowmeter

Housing made of Polypropylene. Other materials: POM, PVDF or stainless steel.

Option: Volume pre-set, inputs/output for further data processing.

