

# INTELLIGENT AIR OPERATED DIAPHRAGM PUMPS

2020 | 1

- ✓ Full control and feedback intelligent pump control solution
- ✓ Ultra low start pressure pump starts at 0.3 bar (4.4 PSI)
- ✓ Lower operational costs reduced air consumption



Powered by

**LEAP**®  
LOW ENERGY AIR PUMP TECHNOLOGY

» All about your flow™

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

## » All about your flow™

*We began our journey 40 years ago 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 1980, 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.



**EN 10204**

## 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.

# TC series

## Intelligent air operated diaphragm pumps

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

Powered by



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)
- ✓ **Noise Reduction**  
ability to utilise lower air pressure reduces the noise of the pump.
- ✓ **Retrofit**  
Leap can be fitted to any existing Tapflo Air Operated Diaphragm Pumps.
- ✓ **Improved Lifespan**  
the TC series uses an air valve that has a significantly longer life expectancy over rubber seal technology.
- ✓ **Batch Dispensing**  
allowing the pump to automatically stop after the required volume has been dispensed.
- ✓ **Improved Maintenance**  
main air valve can be changed in under two minutes without the removal of the pump from the process line.
- ✓ **Electrical feedback**  
signal allows for external monitoring of the pump process.
- ✓ **Control Simplification**  
no need for an external pneumatic solenoid valve, reducing costs and simplifying control.
- ✓ **Dry Running**  
by analysing the frequency of pulses, the pump can analyse when it is running dry.
- ✓ **Dead Heading**  
as with dry running, the frequency of pulses can be monitored, alerting if the pump has a blockage.



**Sustainable energy management**  
Achieve up to **70% energy savings**



# TC series

## Energy Savings

Tests undertaken to measure the performance of a standard pump against the new **TC intelligent pump** have resulted in an **energy saving of up to 70%**.

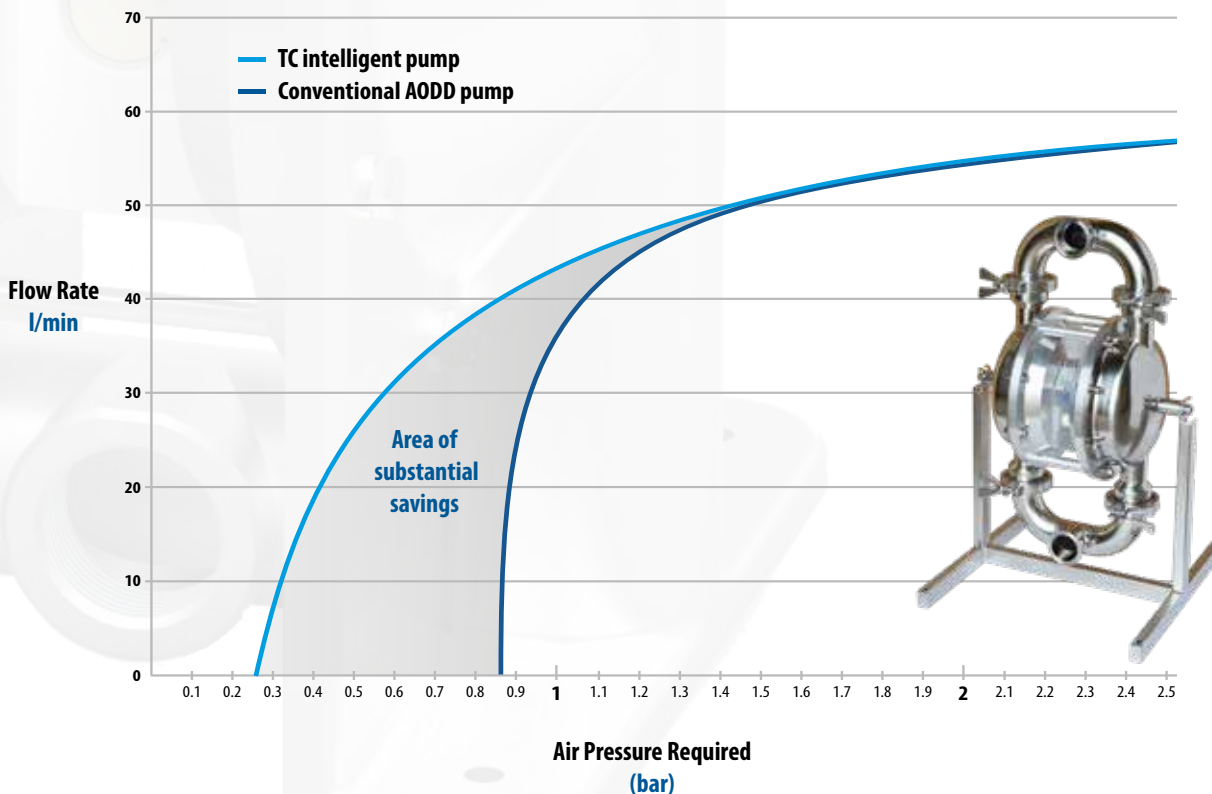
The extensive testing procedure has shown that the largest amount of energy required by a pump is used to overcome the resistance created by the pump itself. Another major issue is found in the mid-port scenario, wherein the attempt to save energy by turning down the air pressure to a much lower level causes the stall of the pump.

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**.

At 0.3 bar (4.4 Psi) a standard Tapflo T50 pump fitted with LEAP® Technology was already pumping at over 23 l/min, all other air pumps tested failed to even start.



### Graph showing fluid flow against air pressure required



# TC series

## A new generation of diaphragm pump

The **TC Intelligent pump** can operate in two settings, Internal and External Pilot.

### Internal Pilot

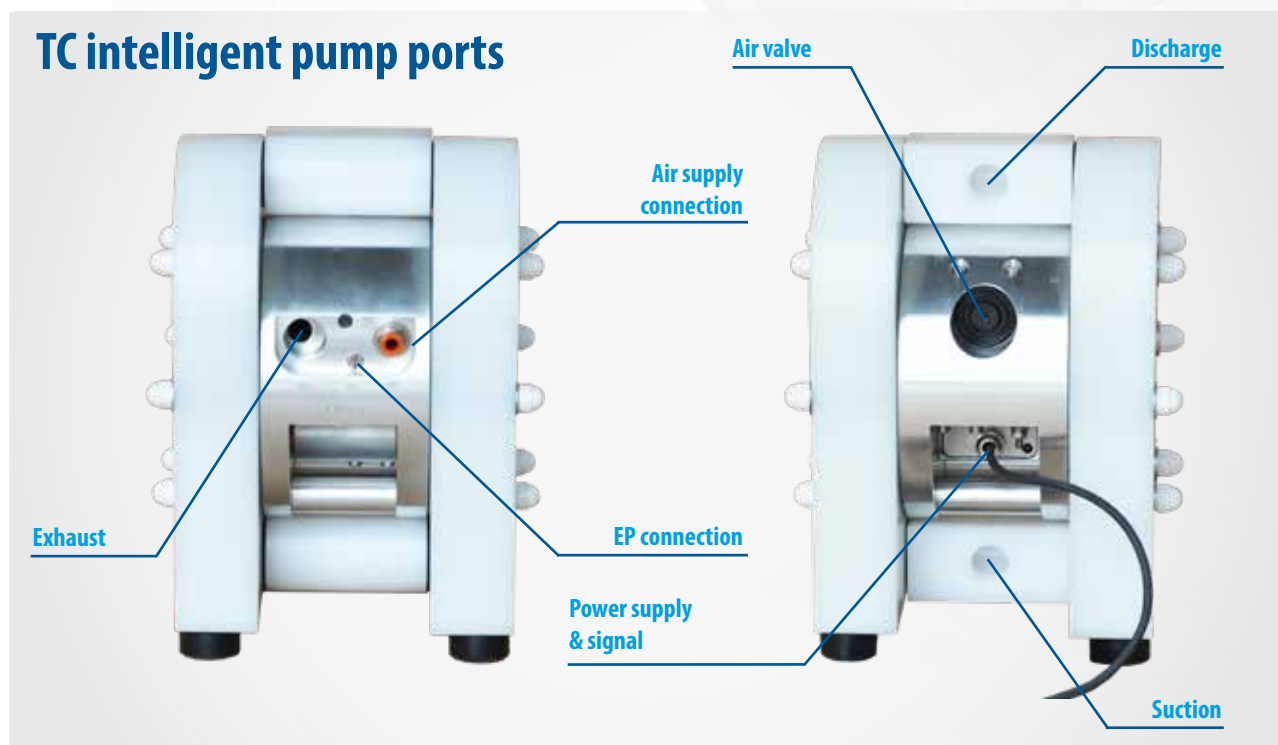
**In standard conditions** the pump runs with a single **air supply from 0.3 bar**, deriving air supply to the control module from the Internal Pilot - main air supply.

### External Pilot

**In some applications however**, there may be a need to use the External Pilot - a separate (additional) air supply to the LEAP module.

**The EP assists in moving the air valve in application of:**

- **Extremely low pressure** - it supports shifting of the air valve;
- **High pressure of 8 bar** - to create an air cushion preventing the air valve from being fired backwards and forwards.



### New air valve generation

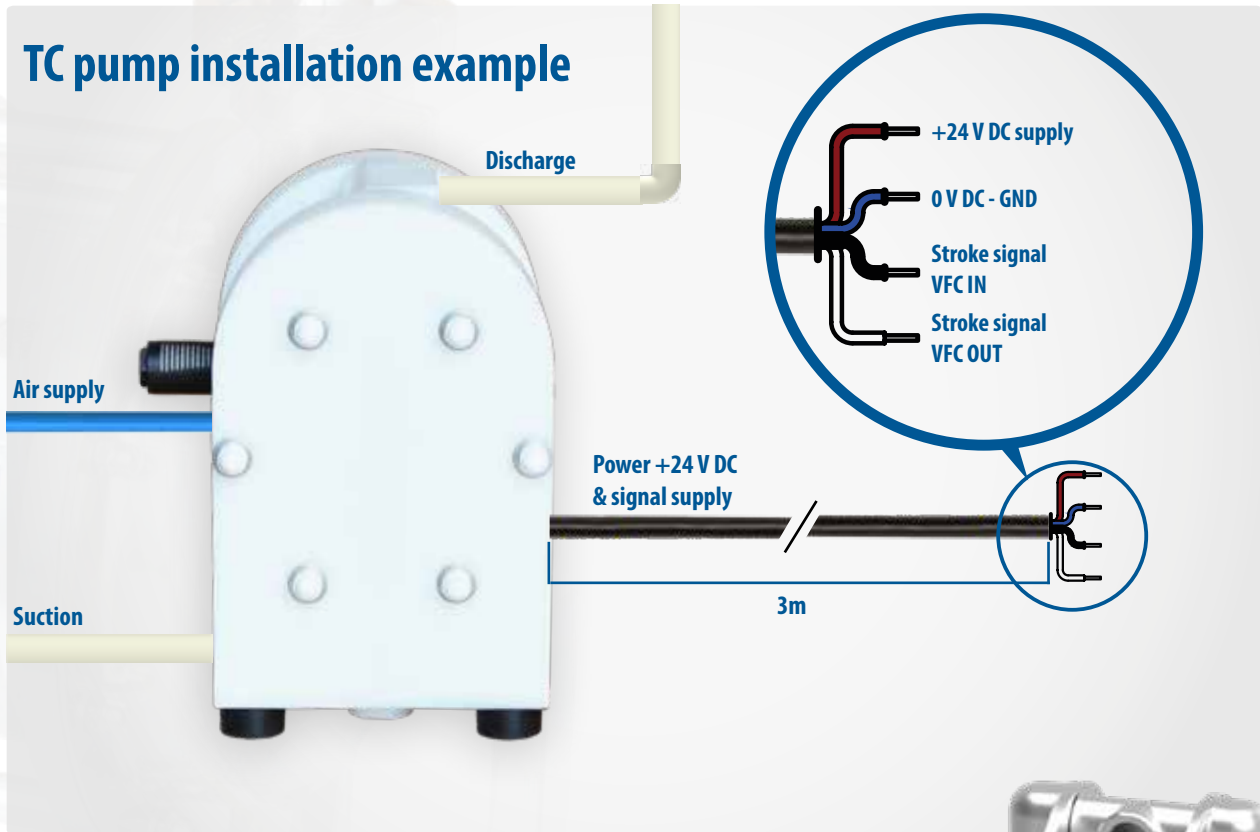
The new generation TC lube free air valve is easily taken out for servicing without dismantling of the pump.



TC intelligent pump  
Air valve

# TC series

## A new generation of diaphragm pump



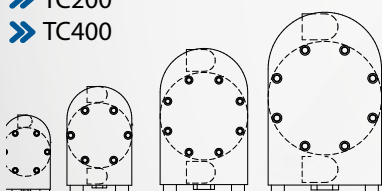
The TC series intelligent pump requires 24 V DC to run.



### TC intelligent pumps range

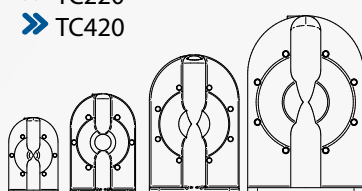
#### PE & PTFE pumps

- » TC50
- » TC100
- » TC200
- » TC400



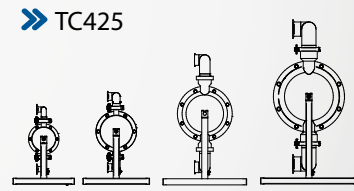
#### Metal pumps

- » TC70
- » TC120
- » TC220
- » TC420



#### Sanitary pumps


- » TC80
- » TC125
- » TC225
- » TC425



# Performance

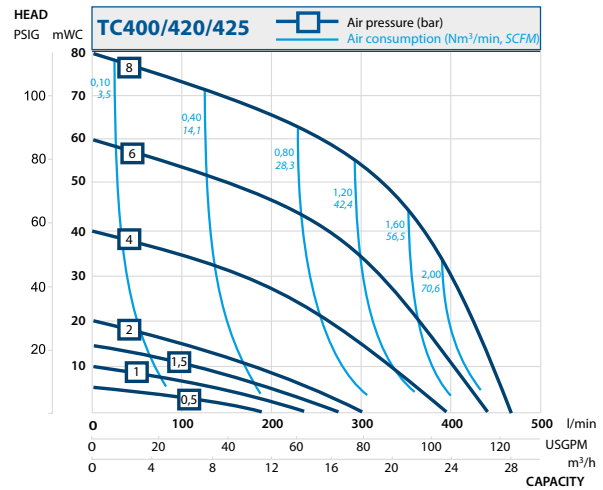
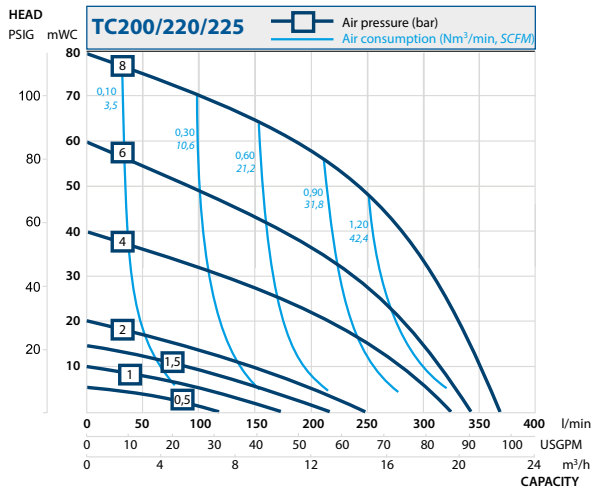
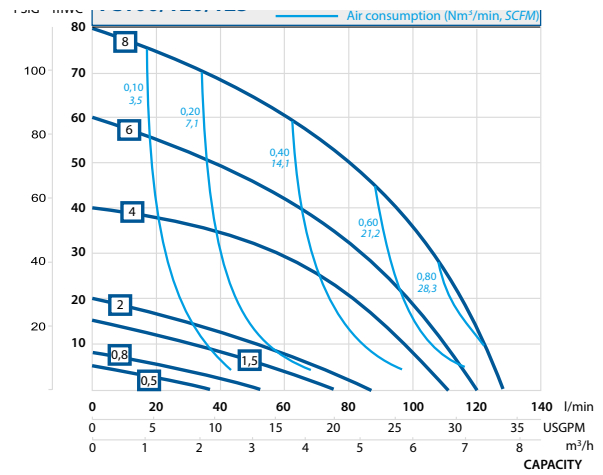
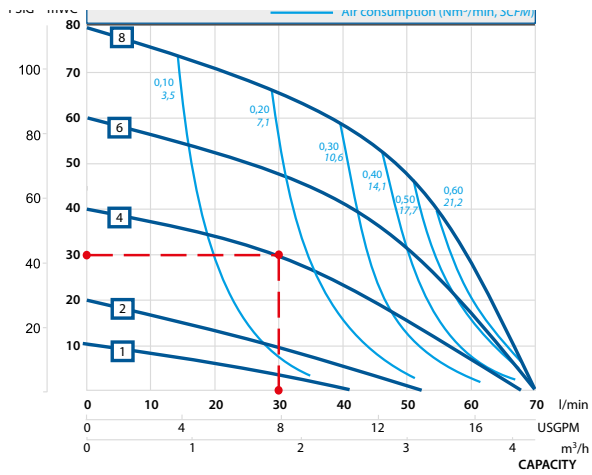
The performance curves are based on water at 20°C. Other circumstances might change the performance. See below how the capacity will change at different viscosities and suction lifts.

## Performance curves

**Example** see the red line 

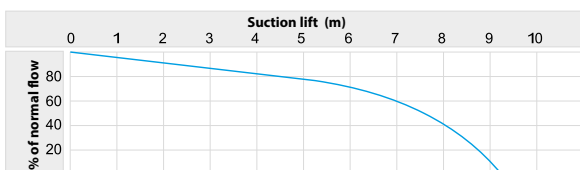
A flow of 30 litres/minute is desired. The discharge head is calculated to 30 mWC.

We choose a TC70. It requires an air pressure of 4 bar and will consume approximately 0.20 Nm<sup>3</sup> air per minute.

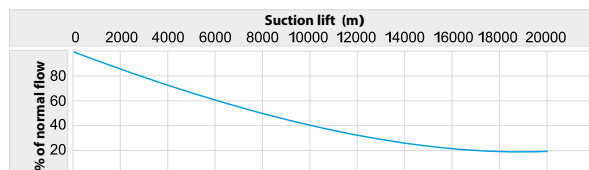


## Capacity changes

### Capacity changes at different suction lifts



### Capacity changes at different viscosities



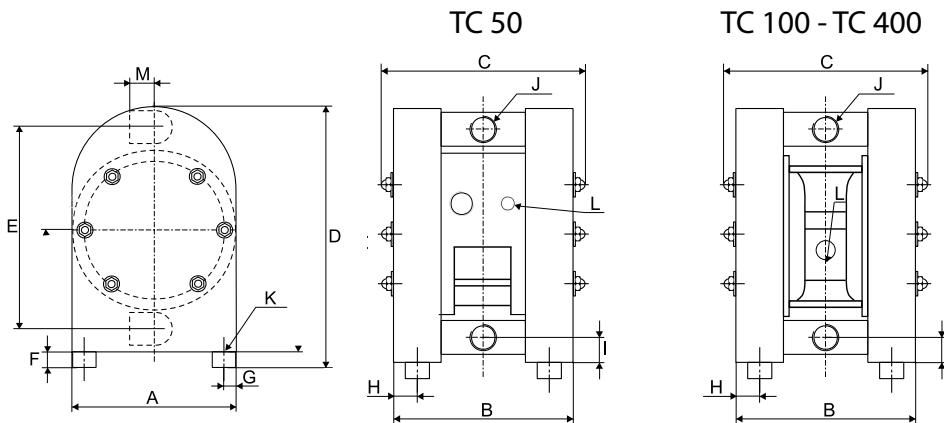
Performance curves are based on Metal series pumps. Should you need detailed performance curves for other executions please contact us.  
Changes reserved without notice

# Dimensions & technical data

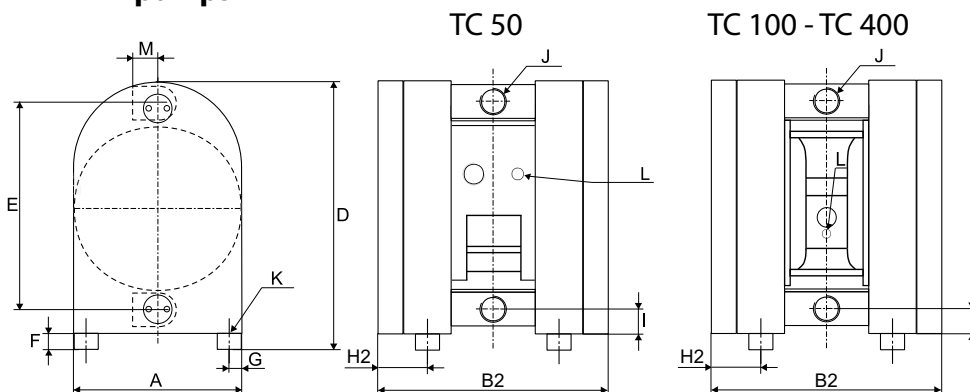
## TC PE & PTFE pumps

### Dimensions

#### PE pumps



#### PTFE pumps



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

| Dim | Pump size |        |        |        |
|-----|-----------|--------|--------|--------|
|     | TC 50     | TC 100 | TC 200 | TC 400 |
| A   | 150       | 200    | 270    | 350    |
|     | 5.91      | 7.87   | 10.63  | 13.78  |
| B   | 169       | 214    | 310    | 380    |
|     | 6.30      | 8.43   | 12.20  | 14.96  |
| B2  | 200       | 254    | 350    | 420    |
|     | 7.87      | 10.00  | 13.78  | 16.54  |
| C   | 190       | 250    | 345    | 425    |
|     | 7.48      | 9.84   | 13.58  | 16.73  |
| D   | 243       | 320    | 450    | 563    |
|     | 9.57      | 12.60  | 17.72  | 22.17  |
| E   | 190       | 252    | 345    | 440    |
|     | 7.48      | 9.92   | 13.58  | 17.32  |
| F   | 15        | 15     | 30     | 30     |
|     | 0.59      | 0.59   | 1.18   | 1.18   |
| G   | 17        | 30     | 30     | 30     |
|     | 0.67      | 1.18   | 1.18   | 1.18   |
| H   | 16        | 30     | 30     | 30     |
|     | 0.63      | 1.18   | 1.18   | 1.18   |
| H2  | 36        | 50     | 50     | 30     |
|     | 1.41      | 1.96   | 1.96   | 1.18   |
| I   | 20        | 28     | 38     | 48     |
|     | 0.79      | 1.10   | 1.50   | 1.89   |
| J   | 1/2"      | 1"     | 1 1/2" | 2"     |
|     | 1/2       | 1      | 1 1/2  | 2      |
| K   | M8x25     | M8x25  | M8x25  | M8x25  |
|     | M8        | M8     | M8     | M8     |
| L   | 1/4"      | 1/4"   | 1/2"   | 1/2"   |
|     | 1/4       | 1/4    | 1/2    | 1/2    |
| M   | 25        | 38     | 54     | 70     |
|     | 0.98      | 1.50   | 2.13   | 2.76   |

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

### Technical data

| Data                                 | Pump size   |            |            |              |
|--------------------------------------|-------------|------------|------------|--------------|
|                                      | TC 50       | TC 100     | TC 200     | TC 400       |
| <b>General characteristics</b>       |             |            |            |              |
| *Max capacity (l/min) / (US gpm)     | 60 / 15.8   | 125 / 33   | 330 / 87   | 570 / 150    |
| **Volume per stroke (ml) / (cu in)   | 87.5 / 5.34 | 280 / 17.1 | 933 / 56.9 | 2300 / 140.3 |
| Max discharge pressure (bar) / (psi) | 8 / 116     | 8 / 116    | 8 / 116    | 8 / 116      |
| Max air pressure (bar) / (psi)       | 8 / 116     | 8 / 116    | 8 / 116    | 8 / 116      |
| ***Max suction lift dry (m) / (Ft)   | 2.5 / 8     | 3.5 / 11   | 4 / 13     | 4 / 13       |
| Max suction lift wet (m) / (Ft)      | 9 / 29.5    | 9 / 29.5   | 9 / 29.5   | 9 / 29.5     |
| Max size of solids (ø in mm) / (in)  | 4 / 0.16    | 6 / 0.24   | 10 / 0.39  | 15 / 0.59    |
| Max temp, pump in PE (°C) / (°F)     | 70 / 158    | 70 / 158   | 70 / 158   | 70 / 158     |
| Max temp, pump in PTFE (°C) / (°F)   | 100 / 212   | 100 / 212  | 100 / 212  | 100 / 212    |
| Min temperature (°C) / (°F)          | -20 / -4    | -20 / -4   | -20 / -4   | -20 / -4     |
| <b>Weight</b>                        |             |            |            |              |
| TC pump in PE (kg) / (lb)            | 5,5 / 12    | 11 / 24    | 25 / 55    | 46 / 101     |
| TC pump in PTFE (kg) / (lb)          | 10 / 22     | 18 / 40    | 45 / 99    | 92 / 203     |



\* = Recommended flow is half of the max flow, i.e. recommended flow for a TC100 is 50 l/min (13.2 US gpm)

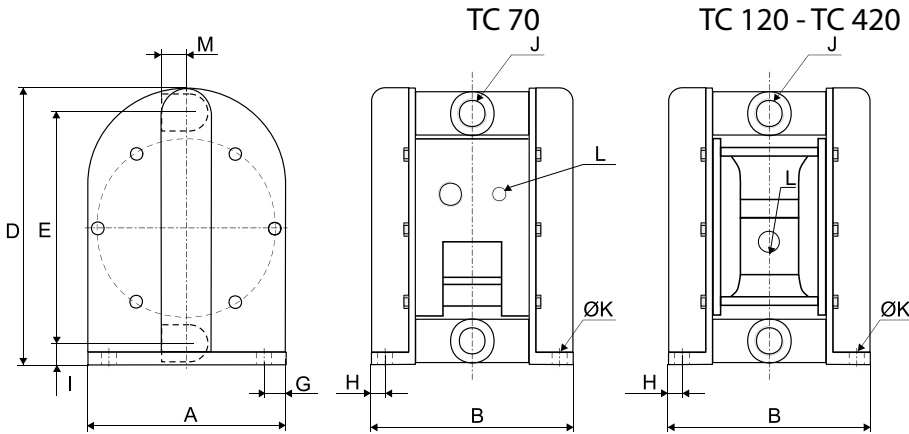
\*\* = The value is based on pumps with EPDM diaphragms. Pumps with PTFE diaphragms have about 15% less volume

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

# TC Metal pumps

## Dimensions

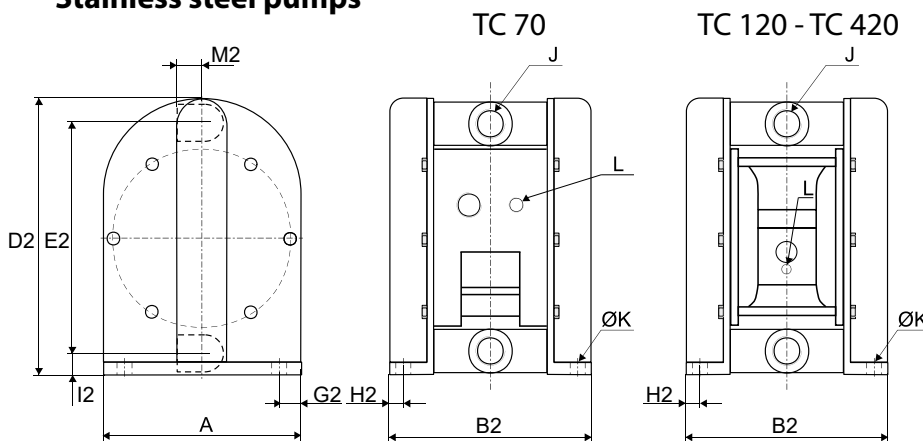
### Aluminium and cast iron pumps



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

| Dim | Pump size |        |        |        |
|-----|-----------|--------|--------|--------|
|     | TC 70     | TC 120 | TC 220 | TC 420 |
| A   | 150       | 200    | 270    | 350    |
|     | 5.91      | 7.87   | 10.63  | 13.78  |
| B   | 168       | 195    | 265    | 342    |
|     | 6.61      | 7.68   | 10.43  | 13.46  |
| B2  | 156       | 204    | 280    | 344    |
|     | 6.14      | 8.03   | 11.02  | 13.54  |
| D   | 229       | 302    | 412    | 537    |
|     | 9.02      | 11.89  | 16.22  | 21.14  |
| D2  | 229       | 310    | 422    | 529    |
|     | 9.02      | 12.20  | 16.61  | 20.83  |
| E   | 190       | 252    | 346    | 449    |
|     | 7.48      | 9.92   | 13.62  | 17.68  |
| E2  | 192       | 257    | 348    | 442    |
|     | 7.56      | 10.12  | 13.70  | 17.40  |
| G   | 17        | 20     | 25     | 35     |
|     | 0.67      | 0.79   | 0.98   | 1.38   |
| G2  | 17        | 20     | 31     | 35     |
|     | 0.67      | 0.79   | 1.22   | 1.38   |
| H   | 19        | 20     | 28     | 33     |
|     | 0.75      | 0.79   | 1.10   | 1.30   |
| H2  | 13        | 23     | 34     | 32     |
|     | 0.51      | 0.91   | 1.34   | 1.26   |
| I   | 20        | 27     | 34     | 48     |
|     | 0.79      | 1.06   | 1.34   | 1.89   |
| I2  | 19        | 27     | 36     | 45     |
|     | 0.75      | 1.06   | 1.42   | 1.77   |
| J   | 3/4"      | 1"     | 1 1/2" | 2"     |
|     | 3/4       | 1      | 1 1/2  | 2      |
| ØK  | 8.5       | 8.5    | 8.5    | 8.5    |
|     | 0.33      | 0.33   | 0.33   | 0.33   |
| L   | 1/4"      | 1/4"   | 1/2"   | 1/2"   |
|     | 1/4       | 1/4    | 1/2    | 1/2    |
| M   | 29        | 33     | 44     | 57     |
|     | 1.14      | 1.30   | 1.73   | 2.24   |
| M2  | 40        | 52     | 70     | 90     |
|     | 1.57      | 2.05   | 2.76   | 3.54   |

### Stainless steel pumps



## Technical data

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

| Data                                 | Pump size   |            |            |              |
|--------------------------------------|-------------|------------|------------|--------------|
|                                      | TC 70       | TC 120     | TC 220     | TC 420       |
| <b>General characteristics</b>       |             |            |            |              |
| *Max capacity (l/min) / (US gpm)     | 78 / 20     | 158 / 41   | 330 / 87   | 570 / 150    |
| **Volume per stroke (ml) / (cu in)   | 87.5 / 5.34 | 420 / 25.6 | 933 / 56.9 | 2300 / 140.3 |
| Max discharge pressure (bar) / (psi) | 8 / 116     |            |            |              |
| Max air pressure (bar) / (psi)       | 8 / 116     |            |            |              |
| *** Max suction lift dry (m) / (Ft)  | 3 / 9.8     | 4 / 13     | 4 / 13     | 4 / 13       |
| Max suction lift wet (m) / (Ft)      | 8 / 26      | 9 / 29.5   | 9 / 29.5   | 9 / 29.5     |
| Max size of solids (ø in mm) / (in)  | 4 / 0.16    | 6 / 0.23   | 10 / 0.40  | 15 / 0.59    |
| Max temp with EPDM/NBR (°C) / (°F)   | 80 / 176    |            |            |              |
| Max temp with PTFE (°C) / (°F)       | 110 / 230   |            |            |              |
| Min temperature (°C) / (°F)          | -20 / -4    |            |            |              |
| <b>Weight</b>                        |             |            |            |              |
| TC pump in alu (kg) / (lb)           | 6 / 13      | 9 / 20     | 21 / 46    | 37 / 82      |
| TC pump cast iron (kg) / (lb)        | 12 / 26     | 18 / 40    | 46 / 101   | 83 / 183     |
| TC pump in AISI 316 (kg) / (lb)      | 7,5 / 17    | 17 / 37    | 39 / 86    | 70 / 154     |

\* = Recommended flow is half of the max flow, i.e. recommended flow for a TC120 is 60 l/min (15.9 US gpm).

\*\* = 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.

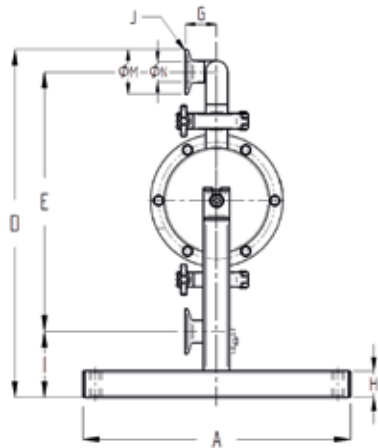


# Dimensions & technical data

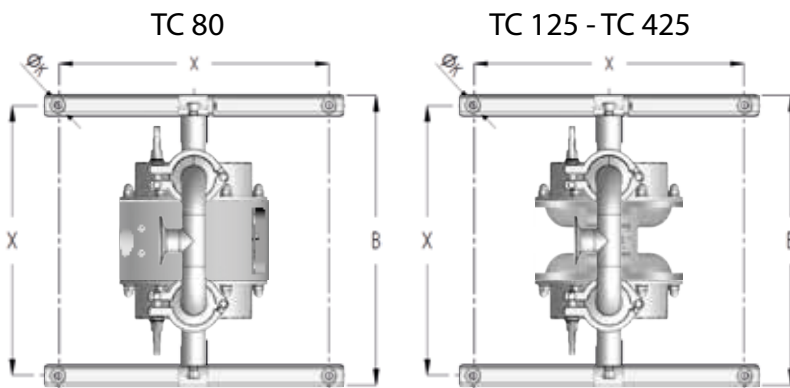
## TC Sanitary pumps

### Dimensions

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



| Dim            | Pump size        |        |             |             |        |
|----------------|------------------|--------|-------------|-------------|--------|
|                | TC 80            | TC 125 | TC 225      | TC 425      |        |
| A              | 303              | 328    | 412         | 476         |        |
|                | 11.9             | 12.9   | 16.2        | 18.7        |        |
| B              | 295              | 320    | 404         | 468         |        |
|                | 11.6             | 12.6   | 15.9        | 18.4        |        |
| D              | 393              | 458    | 646 / 792** | 808 / 950** |        |
|                | 15.5             | 18     | 25.4 / 31.1 | 31.8 / 37.4 |        |
| E              | 294              | 350    | 528 / 690** | 664 / 775** |        |
|                | 11.6             | 13.8   | 20.6 / 27.2 | 26.1 / 30.5 |        |
| G              | 36               | 44     | 50          | 80          |        |
|                | 1.4              | 1.7    | 2.0         | 3.1         |        |
| H              | 30               | 30     | 30          | 30          |        |
|                | 1.2              | 1.2    | 1.2         | 1.2         |        |
| I              | 73               | 71     | 86          | 97          |        |
|                | 2.9              | 2.8    | 3.4         | 3.8         |        |
| J              | TC <sup>1</sup>  | 1"     | 1 1/2"      | 2"          | 2 1/2" |
|                | DIN <sup>2</sup> | DN25   | DN40        | DN50        | DN65   |
|                | SMS <sup>3</sup> | 25     | 38          | 51          | 63.5   |
|                | RJT              | 1"     | 1 1/2"      | 2"          | 3"     |
| K              | 9                | 9      | 9           | 9           |        |
|                | 0.4              | 0.4    | 0.4         | 0.4         |        |
| Air inlet size | 1/4"             | 1/4"   | 1/2"        | 1/2"        |        |
|                | 1/4              | 1/4    | 1/2         | 1/2         |        |
| ØM*            | 50.5             | 50.5   | 64          | 91          |        |
|                | 2.0              | 2.0    | 2.5         | 3.6         |        |
| ØN*            | 22.6             | 35.6   | 49          | 66          |        |
|                | 0.9              | 1.4    | 1.9         | 2.6         |        |
| X              | 275              | 300    | 384         | 448         |        |
|                | 10.8             | 11.8   | 15.1        | 17.6        |        |



\* = 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

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

### Technical data

| Data                                 | Pump size   |            |            |              |
|--------------------------------------|-------------|------------|------------|--------------|
|                                      | TC 80       | TC 125     | TC 225     | TC 425       |
| <b>General characteristics</b>       |             |            |            |              |
| *Max capacity (l/min) / (US gpm)     | 78 / 20.6   | 155 / 41   | 330 / 87   | 570 / 150    |
| **Volume per stroke (ml) / (cu in)   | 87.5 / 5.34 | 300 / 18.3 | 933 / 56.9 | 2300 / 140.3 |
| Max discharge pressure (bar) / (psi) | 8 / 116     | 8 / 116    | 8 / 116    | 8 / 116      |
| Max air pressure (bar) / (psi)       | 8 / 116     | 8 / 116    | 8 / 116    | 8 / 116      |
| ***Max suction lift dry (m) / (Ft)   | 3 / 9.8     | 4 / 13     | 4 / 13     | 4 / 13       |
| Max suction lift wet (m) / (Ft)      | 8 / 26      | 9 / 29.5   | 9 / 29.5   | 9 / 29.5     |
| Max size of solids (ø in mm) / (in)  | 4 / 0.16    | 6 / 0.24   | 10 / 0.39  | 15 / 0.59    |
| Max temperature (°C) / (°F)          | 110 / 230   | 110 / 230  | 110 / 230  | 110 / 230    |
| <b>Weight</b>                        |             |            |            |              |
| Weight (kg) / (lb)                   | 8,5 / 19    | 12 / 26    | 22 / 49    | 37 / 82      |

\* = Recommended flow is half of the max flow, i.e. recommended flow for a TC125 is 60 l/min (15.9 US gpm).  
\*\* = 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.



# Tapflo intelligent solutions

## 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.

## Applications of Guardian systems

### 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.



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*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.*

## 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.

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