Double diaphragm pump

2"

Max. 600 l/min

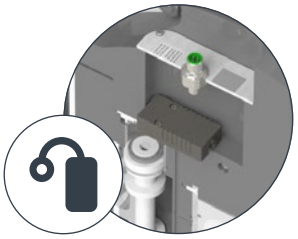
Stainless steel

NEW

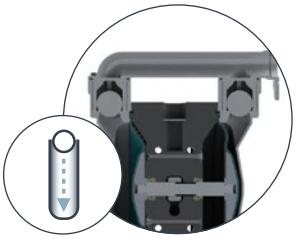
Ready for Future

www.timmer-pumps.com/en/double_diaphragm_pumps_1to1/

DIN flange
DN50/PN10
2" BSP
combined connection



Integrated intelligent sensor (iHZ)

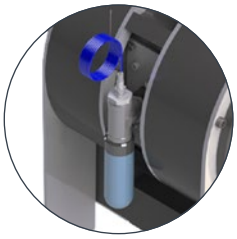


Gravity-loaded valve balls

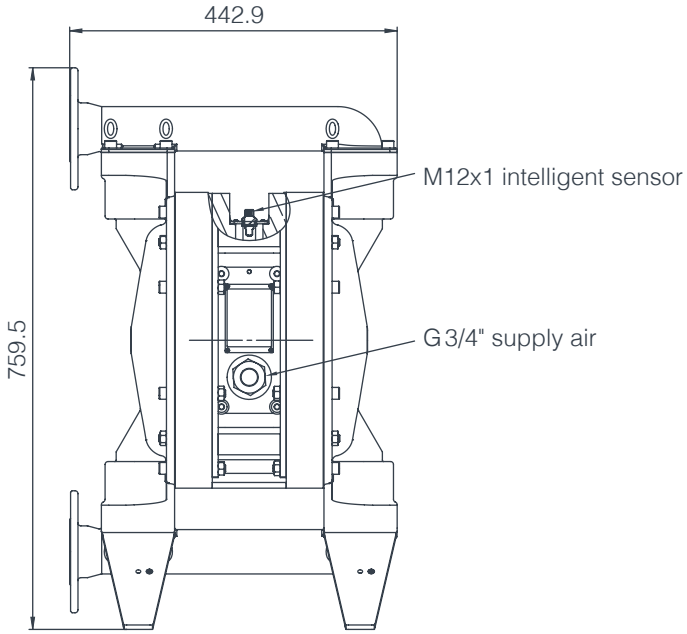
Double diaphragm pump

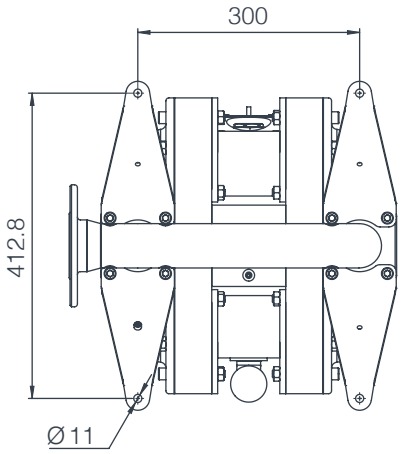
tim® PRO

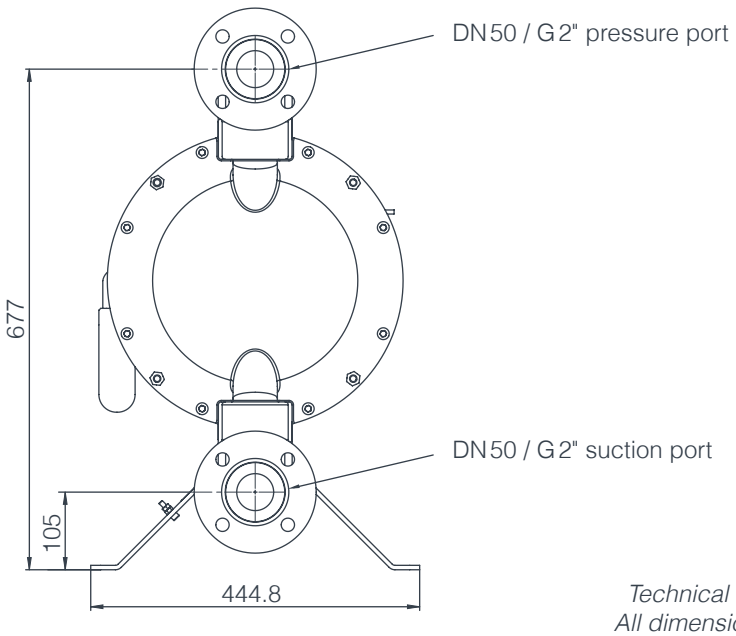
Optional



Diaphragm rupture monitoring







Technical drawing:
All dimensions in mm

Double diaphragm pump

PREMIUM double diaphragm pumps PTI-MEM5600V-VA

Order no.	Type		Media pipes	Material design	ATEX
53503550	PTI-MEM5600V-VA-TF-TF-TF-FEP-PE1-iHZ-FL		Rotates 180° Flange / thread 2"	VA	✓

This pump is a further development of the original tim®PRO series, which has been highly regarded for many years in the paint supply sector and the printing machine industry for its process reliability and easy maintenance.
In addition to these advantages the tim®PRO pump
is particularly characterised by its high chemical resistance, as well as good rinsing capability and thus it is ideally suited for use in the chemical industry.
These variants are delivered with an intelligent IoT-enabled sensor, which allows real-time testing of the stroke signals via a customer PLC. With connection of our tim®IOT smartbox we enable many useful new features increase profitability, process reliability and facilitate preventive maintenance. Simply integrate our tim®IOT smartbox in your system and benefit from these advantages. All information in this regard is provided starting on page 84.

Technical data

Transmission ratio	:	1 to 1
Output (max.)	:	Approx. 600 l/min (for water) With PTFE composite diaphragm
Drive	:	Pneumatic
Fluid connections	:	DIN flange DN50 / PN10, 2" BSP
Operating pressure	:	1 to 7 bar compressed air, unoiled, filtered, or oiled
Compressed air connection	:	G 3/4" internal thread
Suction head, dry	:	Max. 6 m
Weight	:	Approx. 70 kg
Viscosity of pumped medium	:	to 10,000 mPas
Medium temperature	:	+5 to +120 °C (depending on the version and application)
Strokes	:	Max. 2 double strokes/s
Ex protection	:	ATEX (see operating manual for more information)

Material

Housing	:	Stainless steel (V4A)
Middle housing section	:	PE electrically conductive
Valve ball seats	:	PTFE
Valve balls	:	PTFE
Diaphragms	:	PTFE composite
Seals	:	FEP

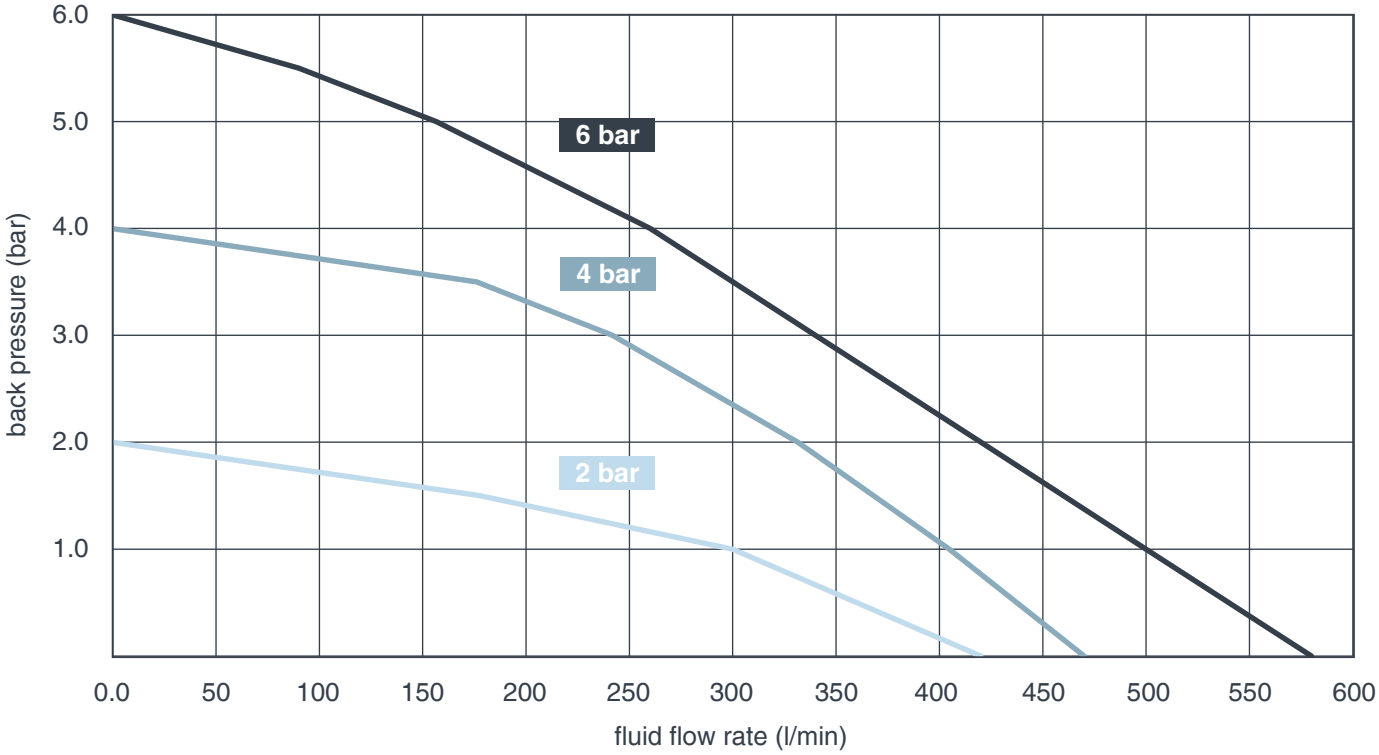
Media

The pump is suitable for pumping a wide variety of fluids (media).Resistance to the media that will be pumped must be checked on a case-by-case basis.

We would be happy to advise you on the suitability for your specific application.

ADDITIONAL VERSIONS ON REQUEST

Fluid delivery volume



Added values

Easy installation

Easy replacement of the valve balls without dismounting the side cover or the unperforated diaphragms.Special tools are not required for mounting / dismounting. Only 4 sealing rings are installed on the media side.

Reduced compressed air costs

Optimised geometries with minimal dead spaces, as well as the extremely low start-up pressures <0.7 bar, reduce energy consumption to a minimum.

Maximisation of service life

The ceramic slide valve that is used works virtually free of wear. The durable diaphragms enable maximisation of service life.

Minimal maintenance costs

The durable diaphragms, the low-wear ceramic slide valve and the easy-maintenance structure of the pump guarantee extremely low service costs.

Increased process reliability

Safe start-up of the pump is ensured, even in critical operating situations. The bistable, over-centre valve prevents problematic intermediate positions of the control valve.

Minimum pulsation

Minimal changeover times in conjunction with the short-stroke principle of the pumps reduce pulsation to a minimum and ensure a more uniform media flow.