2 II Max. 600 I/min





Aluminium









www.timmer-pumps.com/en/double_diaphragm_pumps_ 1to1/



2" BSP connection

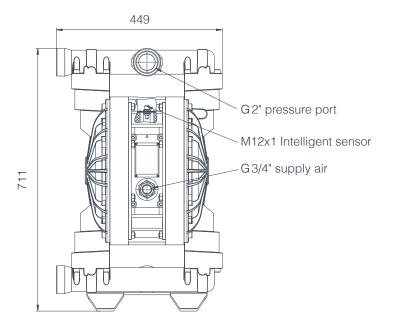


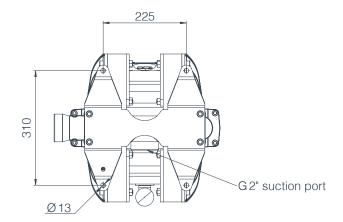
Integrated intelligent sensor (iHZ)

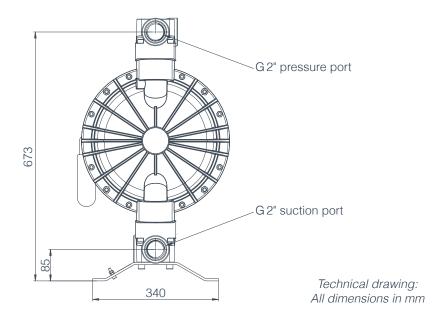


Gravity-loaded valve balls









tim[®]PRO

Double diaphragm pump

PREMIUM double diaphragm pumps PTI-MEM5600V-AL

Order no.	Туре	Media pipes	Material design	ATEX
53503600	PTI-MEM5600V-AL-TE-TF-TF-FEP-PE1-iHZ	Rotatable by 180° Thread 2" with optional lateral outlet	Alu	✓
53503601	PTI-MEM5600V-AL-EP-EP-TF-EPDM-PE1-iHZ	Rotatable by 180° Thread 2" with optional lateral outlet	Alu	~

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 good rinsing capability and thus it

is ideally suited for use in the paint and varnishing industry.

These variants are delivered with an intelligent loT-enabled sensor, which allows real-time testing of the stroke signals, incl. process-relevant data (total of all strokes, average frequency,

frequency histogram) via a customer PLC. With connection of our tim®IOT smartbox we enable many useful new

features that increase profitability, process reliability and facilitate preventive maintenance.

Simply integrate our tim®IOT smartbox in your system and benefit from these advantages.

Technical data

Transmission ratio : 1 to 1

Output (max.) : Approx. 600 I/min (for water)

Drive : Pneumatic Fluid connections : 2" BSP

Operating pressure : 1 to 7 bar compressed air, unoiled, filtered,

or oiled

Compressed air connection : G 3/4" internal thread

Suction height, dry : Max. 6 m

Weight : Approx. 48 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 infor-

mation)

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.

Material

Housing : Aluminium

Middle housing section : PE electrically conductive

Valve ball seats : PTFE

Valve balls : PTFE / EPDM

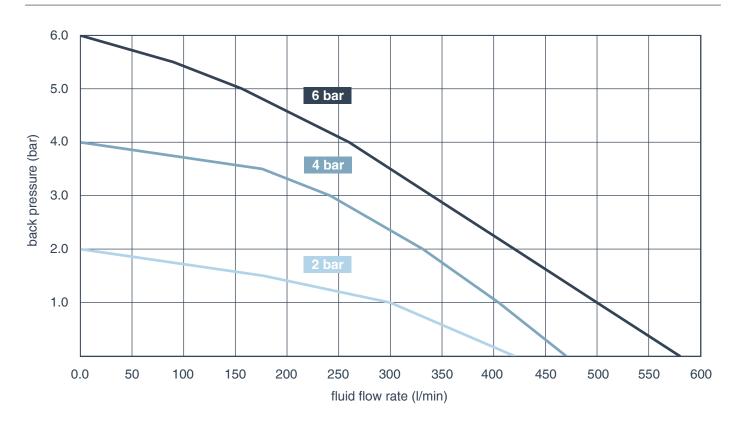
Diaphragms : PTFE composite with EPDM-back / EPDM

Seals : FEP / EPDM





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.



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.



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.



Increased process reliability

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



Maximisation of service life

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



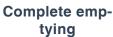
Minimum pulsation

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.

Double diaphragm pump with complete emptying

Max. 600 I/min











Aluminium





Ready for Future





www.timmer-pumps.com/en/ double_diaphragm_pumps_ 1to1/



2" BSP connection



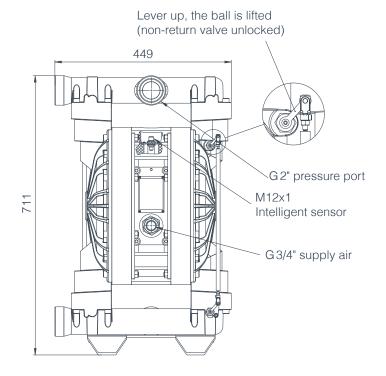
Integrated intelligent sensor (iHZ)

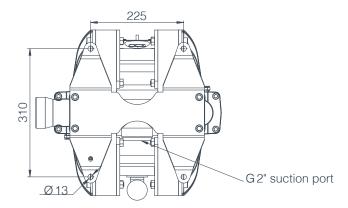


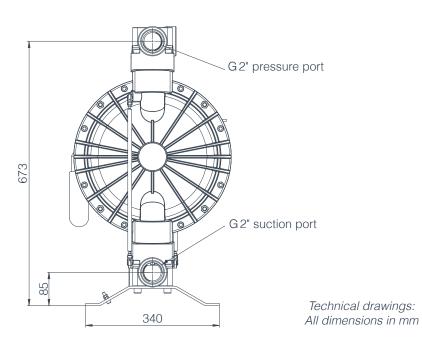
Gravity-loaded, manually piloted valve balls

Double diaphragm pump with complete emptying









tim[®] PRO

Double diaphragm pump with complete emptying

PREMIUM-Doppelmembranpumpen PTI-MEM5600V-AL-RE

Order no.	Туре	Media pipes	Material design	ATEX
53503606	PTI-MEM5600V-AL-EP-EP-TF-EPDM-PE1-iHZ-RE	Rotatable by 180° Thread 2" with optional lateral outlet	Alu	✓

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 good rinsing capability and thus it is ideally suited for use in the paint and varnishing industry.

Via manually activated eccentric tappet the valve balls can be lifted out of the seats

This enables virtually complete return of the residual media quantity via the pump's suction pipe.

These variants are delivered with an intelligent loT-enabled sensor, which allows real-time testing of the stroke signals, incl. process-relevant data (total of all strokes, average frequency, frequency histogram) via a customer

PLC. With connection of our tim®IOT smartbox we enable many useful new features that increase profitability, process reliability and facilitate preventive maintenance.

Simply integrate our tim®IOT smartbox in your system and benefit from these advantages.

Technical data

Transmission ratio : 1 to 1

Output (max.) : Approx. 600 I/min (for water)

Drive : Pneumatic Fluid connections : 2" BSP

Operating pressure : 1 to 7 bar compressed air, unoiled, filtered,

or oiled

Compressed air connection : G 3/4" internal thread

Suction height, dry : Max. 6 m

Weight : Approx. 48 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 infor-

mation)

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

Material

Housing : Aluminium

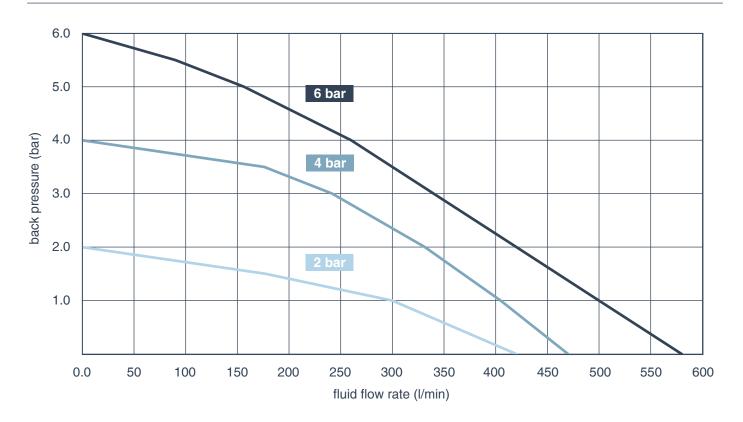
Middle housing section : PE electrically conductive

Valve ball seats: PTFEValve balls: EPDMDiaphragms: EPDMSeals: EPDM





Fluid delivery volume



Added values



Maximum media recovery

Residual quantities of the medium can be recirculated by mechanically lifting the valve balls.



Maximisation of service life

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



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.



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.



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.



Increased process reliability

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