

FLUIDPUMPS

PREMIUM -Double Diaphragm Pumps, -High Pressure Double Diaphragm Pumps,
-Electrically Piston Pumps, -Pneumatic Piston Pumps



 made
in
Germany

2018

timmer-pumps.com



HEADQUARTERS – 20.000 m²



MORE THAN 40 YEARS

Timmer GmbH is your reliable partner in the area of pneumatics, vacuum technology as well as pumping and dosing technology. With more than 130 employees, we develop, manufacture and sell an extensive array of products at two factories - ranging from custom-specific solutions through to technical accessories. In short: we offer you everything you need in your daily practice. Our products are known under the brand names Timmer und TIVAtec all over the world.



Administration



Purchase and sales



Warehouse & logistics



Production of pumps



Production of large
cylinders



Production of
special structures



Founding
1978



Branches
2



Employees
130



Development department



Construction department



Mechanical production



Prototype building



Production of
cylinders



Production of
vacuum lifting devices



Fixture construction

tim[®] PRO | PREMIUM double diaphragm pumps 1:1

	Construc- tion size	Type	Output	Operating pressure	Material design	Page
	1/2"	PTI-MEM1060	60 l/min	1 - 8 bar	stainless steel	10
	1/2"	PTI-MEM1060-AL	60 l/min	1 - 8 bar	AL	14
	1/2"	PTI-MEM1060V-PPS	60 l/min	1 - 8 bar	PPS	18
	1/2"	PTI-MEM1060V-PP	60 l/min	1 - 8 bar	PP	22
	1"	PTI-MEM1150-VA	150 l/min	1 - 8 bar	stainless steel	26
	1"	PTI-MEM1150-AL	150 l/min	1 - 8 bar	Alu	30


tim[®] BOOST | PREMIUM high pressure double diaphragm pumps

	Construc- tion size	Type	Output	Operating pressure	Material design	Page
	3/8"	PTI-MHD1030	30 l/min	1 - 6 bar	stainless steel	34
	1/2"	PTI-MHD1050	50 l/min	1 - 6 bar	stainless steel	38
	1/2"	PTI-MHD1065	65 l/min	1 - 6 bar	stainless steel	42
	1"	PTI-MHD1110	110 l/min	1 - 7 bar	stainless steel	46


tim[®] ECO | PREMIUM eletrical piston pumps

	Type	Output	Operating pressure	Material design	Page
	PTI-KPE1020	20 l/min	16 bar	stainless steel	52
	PTI-KPE1030	30 l/min	16 bar	stainless steel	56
	PTI-KPE1040	40l/min	20 bar	stainless steel	60
	PTI-KPE1060	60l/min	16 bar	stainless steel	64

tim[®] ECO | back pressure regulator

	Type	Flow rate	Fluid pressure	Material design	Page
	WTI-MDRP	40 l/min	25 bar	stainless steel	70

tim[®] COA | PREMIUM pneumatic piston pumps

	Type	Output	Operating pressure	Material design	Page
	Pneumatic Coagulant Pump	0,18 l/min	3 - 6 bar	POM	74

Timmer has earned a good reputation as a reliable partner and manufacturer of reliable pumps, especially in the areas of paint supply and the printing industry for many years now.

Timmer is at the cutting edge and works closely with its partners. Thus, it could again and again improve its position with innovative ideas and individual product solutions.

Timmer products from the timECO, timBOOST, timPRO and timCOA series are characterized by their high quality. Since these products are all "Made in Germany", the production processes can also be closely supervised. In addition, the Timmer products are permanently improved, so that the products always show process-optimizing solutions, such as improved rinsing

capability, better residue emptying, etc. With the developments of the timECO series, for instance the electric piston pumps, the intelligent sensor, etc., Timmer is now taking the next step towards Industry 4.0 and has set itself the task to further develop its own products for the upcoming digital expansion in the future.

tim[®] PRO

Pneumatic
double diaphragm pumps 1:1
(PTI-MEM)

tim[®] BOOST

Pneumatic
double diaphragm pumps with
pressure intensification (PTI-MHD)

tim[®] ECO

Electrical piston pumps
(PTI-KPE)

tim[®] GLUE

Pneumatic piston pumps for
glue conveyance (PTI-D)

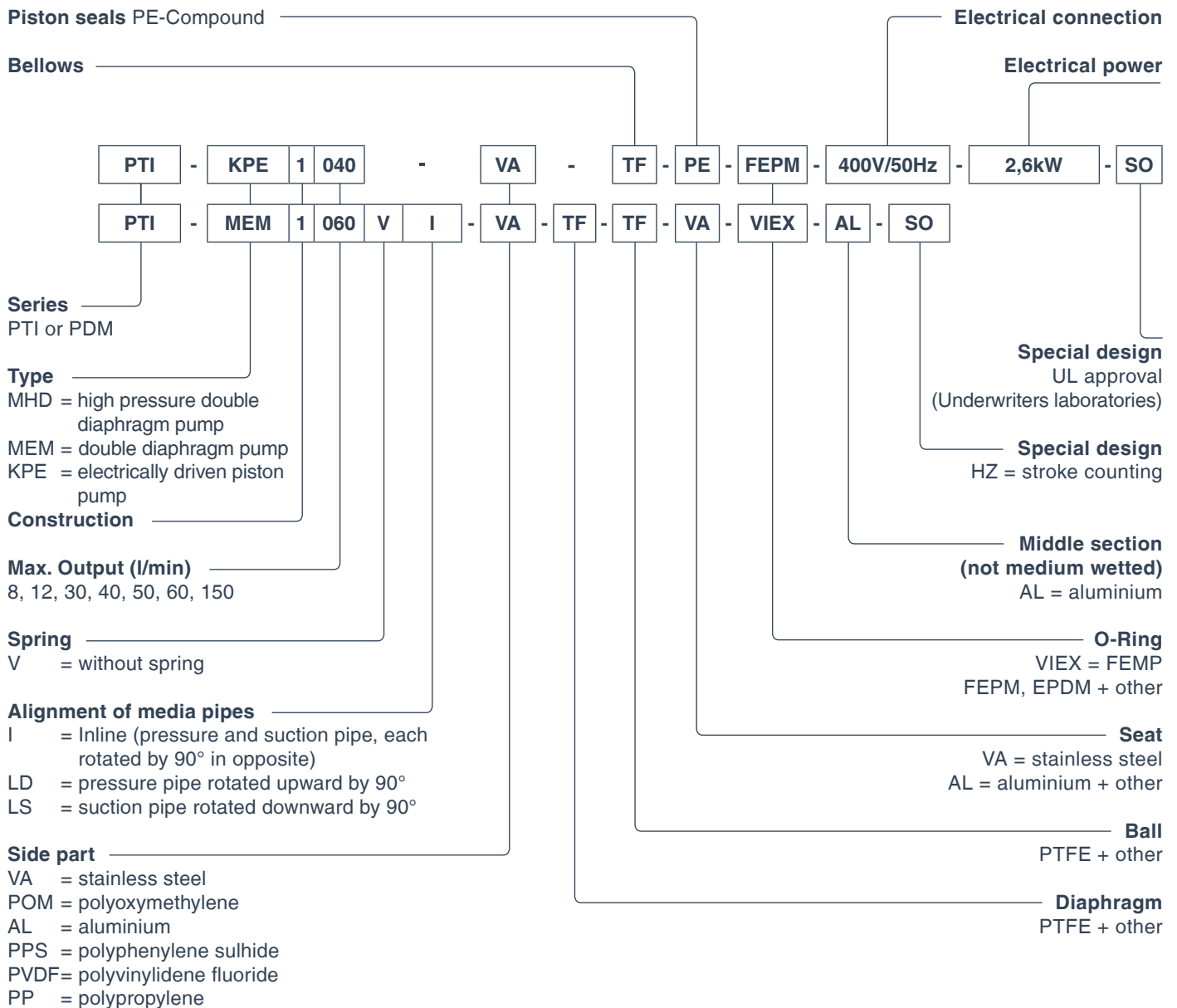
tim[®] COA

Pneumatic coagulant pumps
(PTI-E)



Timmer offers with the timBOOST series pneumatic double diaphragm pumps with pressure intensifier in different versions, which are ideally suited for the supply of small and medium paint supply systems. In addition to the timBoost series, Timmer offers with the timPRO series reliable, pneumatic process and transfer pumps without pressure intensifier.

Fluid pumps type key Double diaphragm pumps and electrical piston pumps



Stroke counting:

At the customer's request, all Timmer PREMIUM double diaphragm pumps can be provided with optional stroke counting.

The stroke counting is also approved for the explosion protection area (ATEX).

The signal of the sensor enables the following evaluations in conjunction with a connected control system:

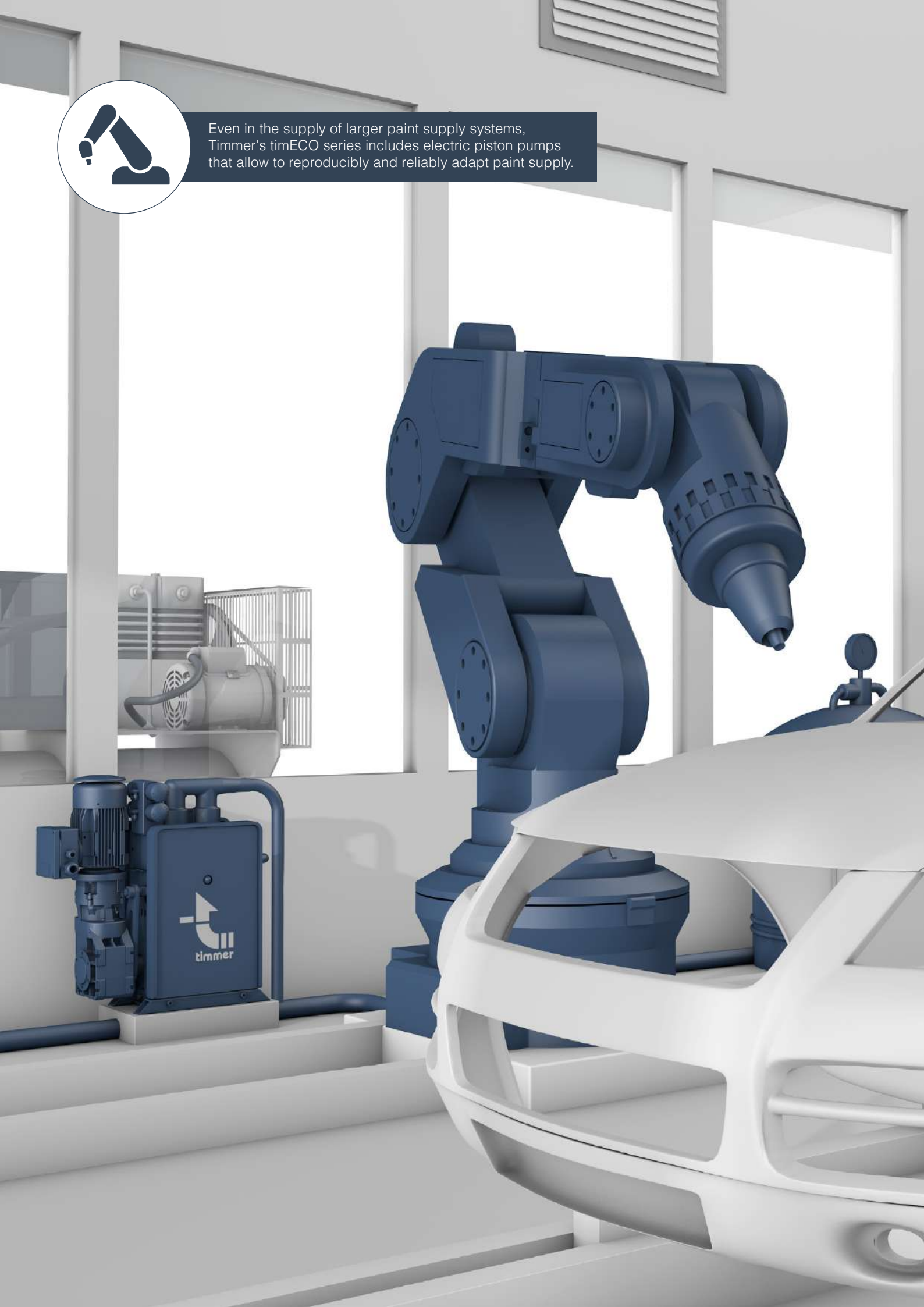
- Frequency monitoring
- Stroke counting
- Calculation of flow rates
- Monitoring of pump function
- Detection of process changes
- Display of maintenance intervals



Optional with magnetic sensor for stroke counting



Even in the supply of larger paint supply systems, Timmer's timECO series includes electric piston pumps that allow to reproducibly and reliably adapt paint supply.



PTI-MEM1060

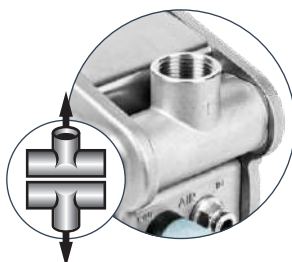
Output approx. 60 l/min
ATEX (for further information
see operating manual)



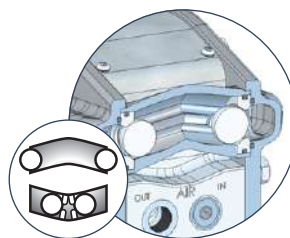
STAINLESS
STEEL (VA)



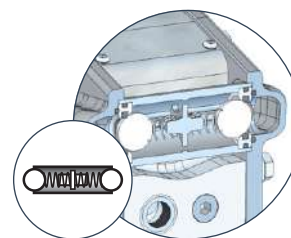
[www.timmer-pumps.com/en/
double_diaphragm_pumps_1to1](http://www.timmer-pumps.com/en/double_diaphragm_pumps_1to1)



INLINE-Version
MEM1060I & MEM1060VI







Gravity-loaded
valve balls



Spring-loaded
media valves

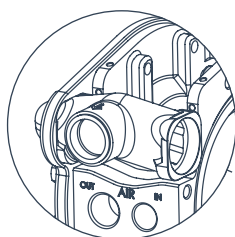
PREMIUM Double diaphragm pumps PTI-MEM1060

Order no.	Type		Alignment of suction pipes	Alignment of pressure pipes	Material design	ATEX
53507114	PTI-MEM1060-VA-TF-VA-VA-VIEX-AL		forward	forward	stainless steel	✓
53507002	PTI-MEM1060I-VA-TF-VA-VA-VIEX-AL		downward	upward	stainless steel	✓
53507108*	PTI-MEM1060V-VA-TF-TF-VA-VIEX-AL		forward	forward	stainless steel	✓
53507113	PTI-MEM1060VI-VA-TF-TF-VA-VIEX-AL		downward	upward	stainless steel	✓

OTHER
VERSIONS
ON
REQUEST



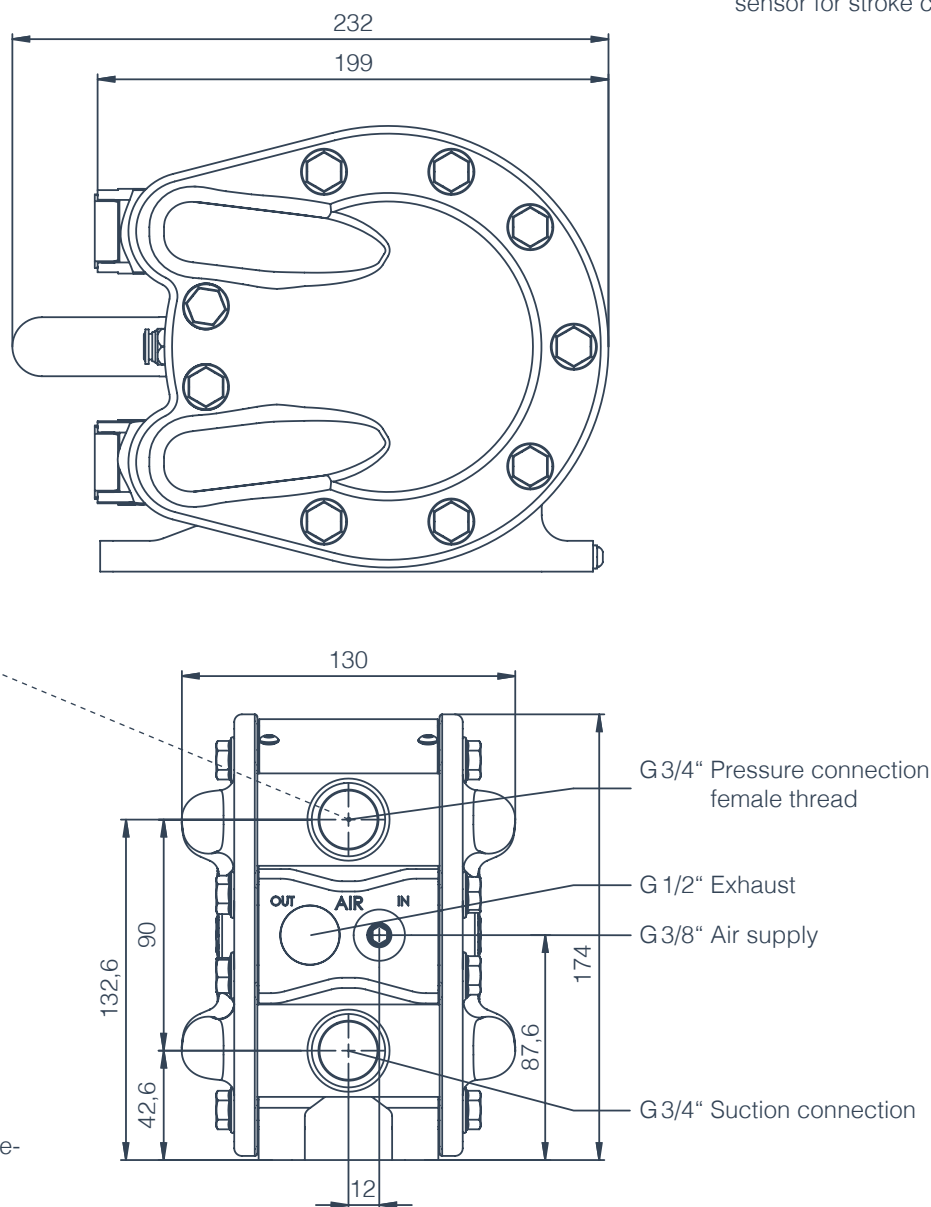
Optional with magnetic
sensor for stroke counting



*53507108



www.timmer-pumps.com/en/double-diaphragm-pumps-1to1-service



The timPRO series pumps have been successfully used for many years as process and transfer pumps in the area of paint supply and in the printing machine industry.

They are characterized in particular by their process reliability, easy servicing, small and compact design, good workmanship and long service life.

All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

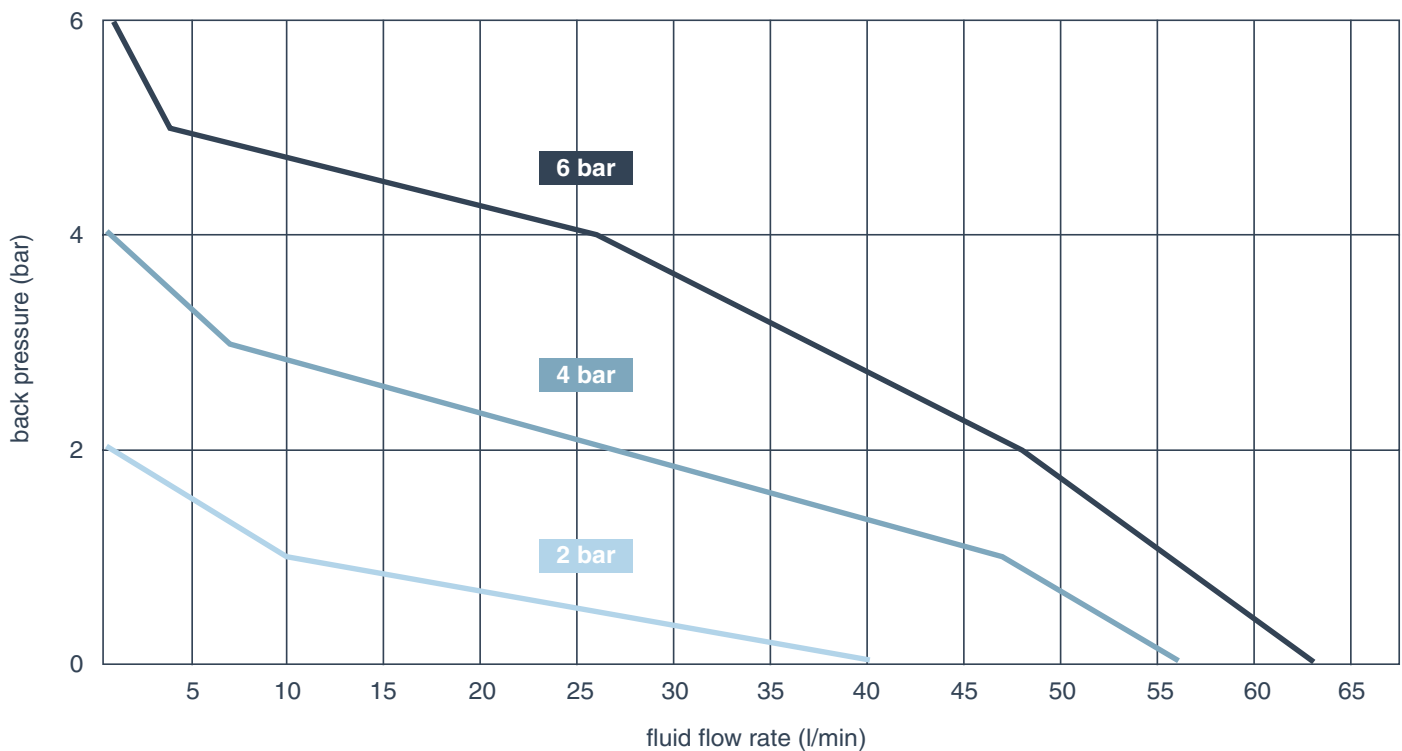
Technical data

Transmission	: 1 to 1
Output (max.)	: approx. 60 l/min (with water) with PTFE-compound diaphragm
Drive	: pneumatic
Fluid connections	: 3/4" Female thread 90° rotatable
Operating pressure	: 1 - 8 bar compressed air, unoiled, filtered or oiled
Compressed air connection	: hose external Ø 8 mm, internal Ø 6 mm
Suction height dry (max.)	: 4 m
Weight	: approx. 6,2 kg
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +65 °C
Noise level	: 68 dB(A)
Strokes (max.)	: 8 doublestrokes /s
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: stainless steel
Middle section of the housing	: aluminium
Fluid seals	: FEPM
Pneumatic seals	: NBR
Valve seats	: stainless steel
Valve balls	: stainless steel
Diaphragm	: PTFE / NBR as composite
Control valves	: ceramic flat slide / POM
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: stainless steel
Springs	: spring steel

Fluid flow rate



Features

- Process reliable
- Simple exchange of the diaphragm
- Chemically resistant diaphragm (high durability)
- Diaphragm CIP-capable
- Optimized flushability
- Small compact design
- Reliable starting due to spring valve
- Low-wear pneumatic ceramic valve (process reliable)
- Low maintenance
- Suction and pressure connection 90° rotatable
- Suitable for dry running

Fluids

The pump is suitable for conveying various fluids (media). Material resistance has to be examined on a case-by-case basis. We will be pleased to give you advice about the suitability in your specific application.

PTI-MEM1060

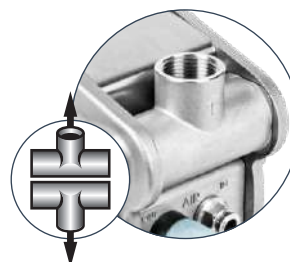
Output approx. 60 l/min
ATEX (for further information
see operating manual)



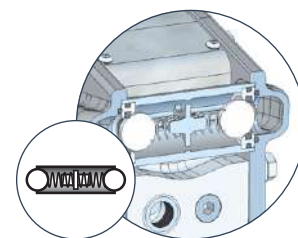
Aluminium
(AL)



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double_diaphragm_pumps_1to1](http://www.timmer-pumps.com/en/double_diaphragm_pumps_1to1)





INLINE-Version
MEM1060I



Spring-loaded
media valves

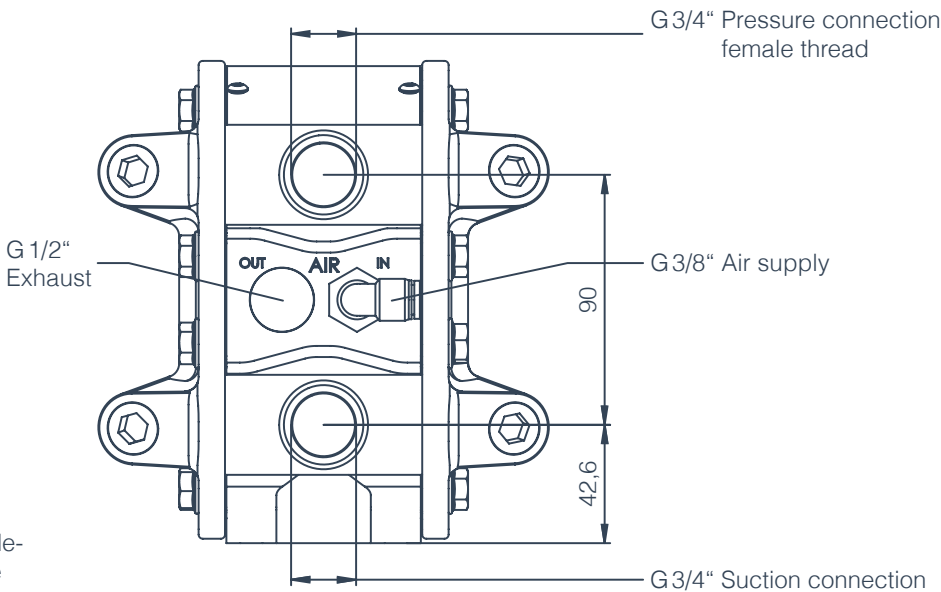
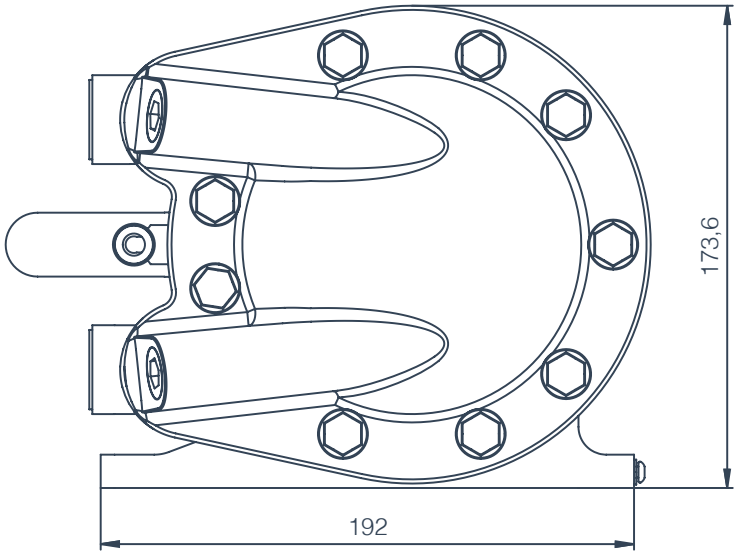
PREMIUM-Double diaphragm pumps PTI-MEM1060

Order no.	Typee		Alignment of suction pipes	Alignment of pressure pipes	Material design	ATEX
53507271	PTI-MEM1060-AL-TF-POM-VA-EPDM-AL		forward	forward	AL	✓
53507460	PTI-MEM1060I-AL-TF-POM-VA-EPDM-AL		downward	upward	AL	✓

OTHER
VERSIONS
ON
REQUEST



Optional with magnetic
sensor for stroke counting



www.timmer-pumps.com/en/double-diaphragm-pumps-1to1-service

The timPRO series pumps have been successfully used for many years as process and transfer pumps in the area of paint supply and in the printing machine industry.

They are characterized in particular by their process reliability, easy servicing, small and compact design, good workmanship and long service life.

All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

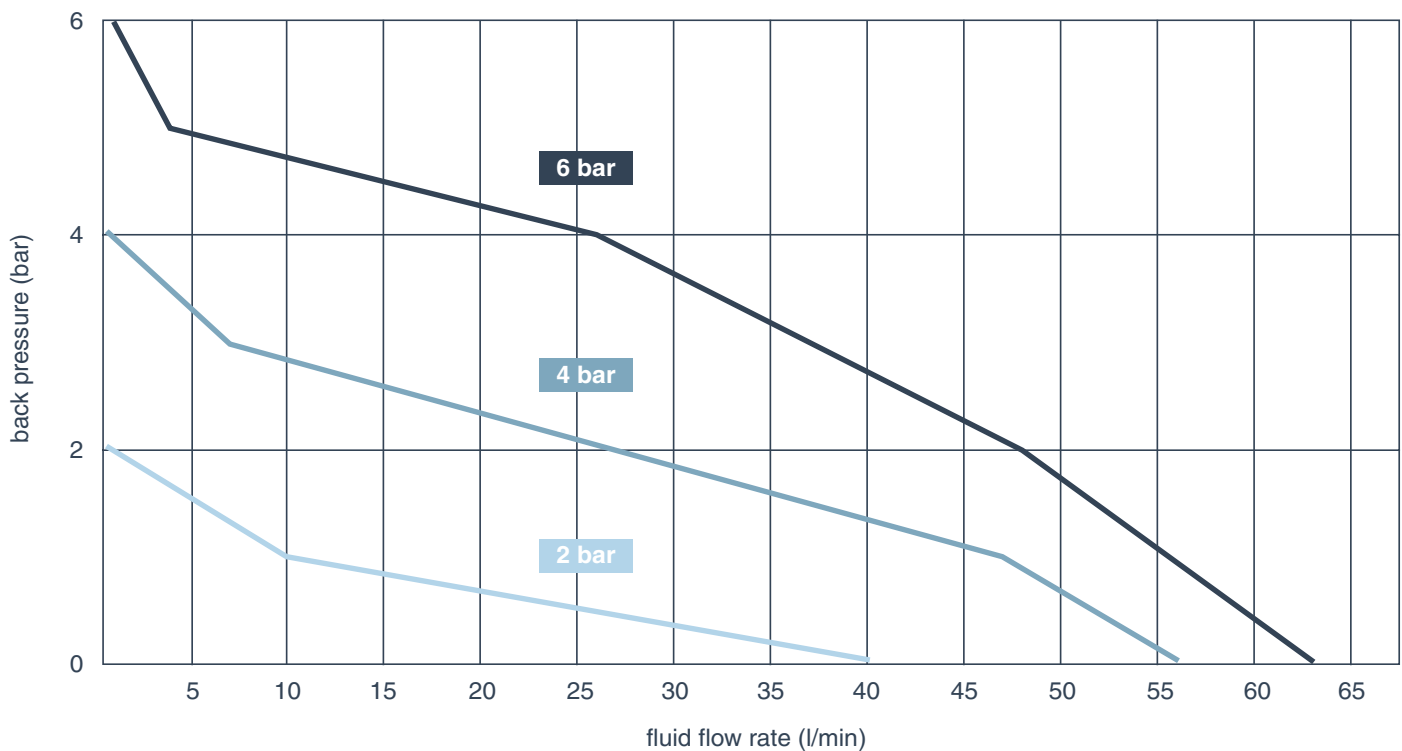
Technical data

Transmission	: 1 to 1
Output (max.)	: approx. 60 l/min (with water) with PTFE-compound diaphragm
Drive	: pneumatic
Fluid connections	: 3/4" Female thread 90° rotatable
Operating pressure	: 1 - 8 bar compressed air, unoiled, filtered or oiled
Compressed air connection	: hose external Ø 8 mm, internal Ø 6 mm
Suction height dry (max.)	: 4 m
Weight	: approx. 4,5 kg
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +65 °C
Noise level	: 68 dB(A)
Strokes (max.)	: 8 doublestrokes /s
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: aluminium
Middle section of the housing	: aluminium
Fluid seals	: EPDM
Pneumatic seals	: NBR
Valve seats	: stainless steel
Valve balls	: POM
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramic flat slide / POM
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: aluminium
Springs	: spring steel

Fluid flow rate



Features

- Process reliable
- Simple exchange of the diaphragm
- Chemically resistant diaphragm (high durability)
- Diaphragm CIP-capable
- Optimized flushability
- Small compact design
- Reliable starting due to spring valve
- Low-wear pneumatic ceramic valve (process reliable)
- Low maintenance
- Suction and pressure connection 90° rotatable
- Suitable for dry running

Fluids

The pump is suitable for conveying various fluids (media). Material resistance has to be examined on a case-by-case basis. We will be pleased to give you advice about the suitability in your specific application.

PTI-MEM1060

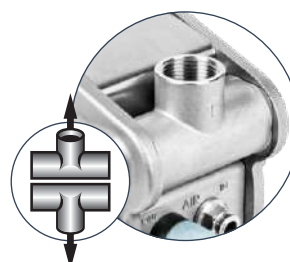
Output approx. 60 l/min
ATEX (for further information
see operating manual)



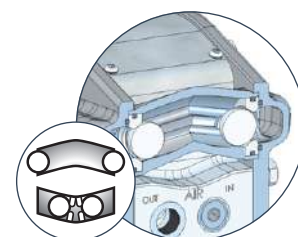
Polyphenylen-
sulfid (PPS)



[www.timmer-pumps.com/en/
double_diaphragm_pumps_1to1](http://www.timmer-pumps.com/en/double_diaphragm_pumps_1to1)






INLINE-Version
MEM1060VI



Gravity-loaded
valve balls

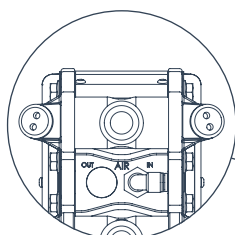
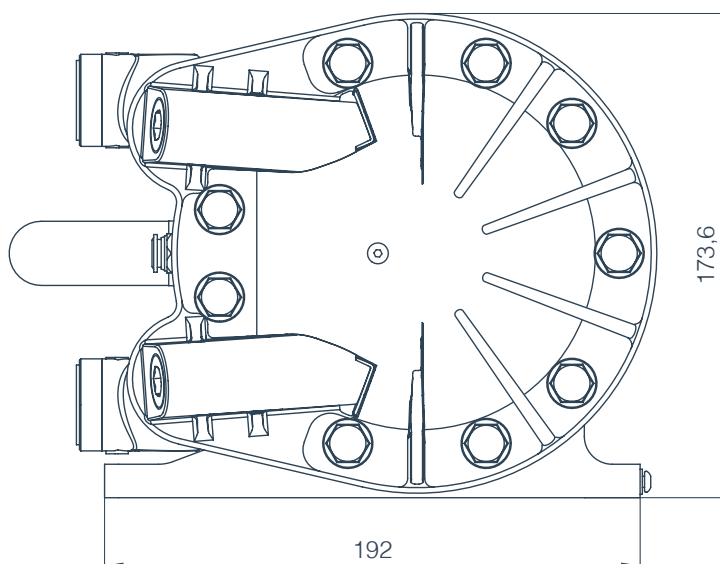
PREMIUM-Double diaphragm pumps PTI-MEM1060

Order no.	Type		Alignment of suction pipes	Alignment of pressure pipes	Material design	ATEX
53507074	PTI-MEM1060V-PPS-TF-TF-VA-VIEX-AL		forward	forward	PPS	✓
53507075	PTI-MEM1060VI-PPS-TF-TF-VA-VIEX-AL		downward	upward	PPS	✓
53507402*	PTI-MEM1060V-PPS-TF-TF-PPS-VIEX-AL		downward	upward	PPS	✓

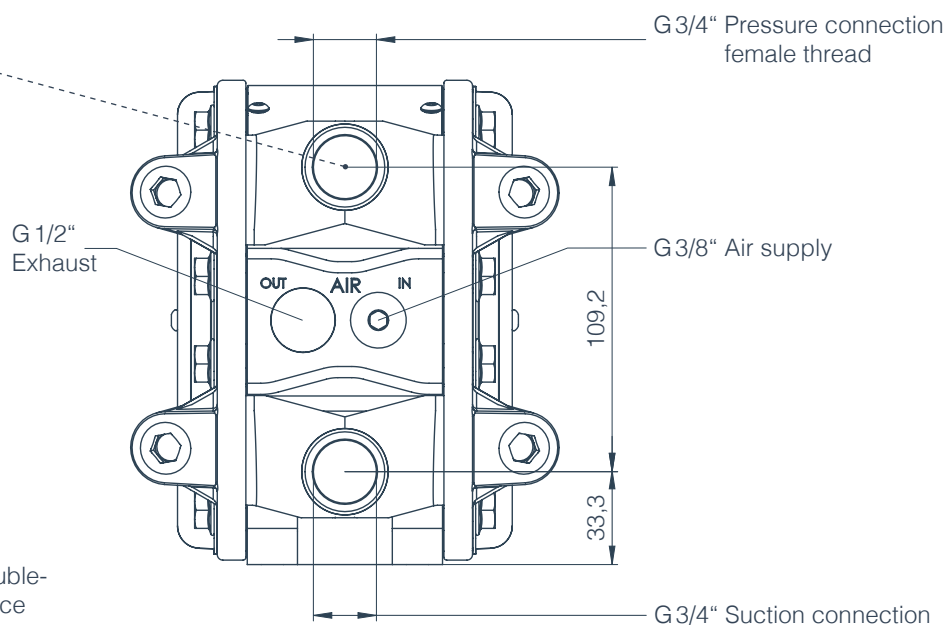
OTHER
VERSIONS
ON
REQUEST



Optional with magnetic sensor for stroke counting



*53507402



www.timmer-pumps.com/en/double-diaphragm-pumps-1to1-service

The timPRO series pumps have been successfully used for many years as process and transfer pumps in the area of paint supply and in the printing machine industry.

They are characterized in particular by their process reliability, easy servicing, small and compact design, good workmanship and long service life.

All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

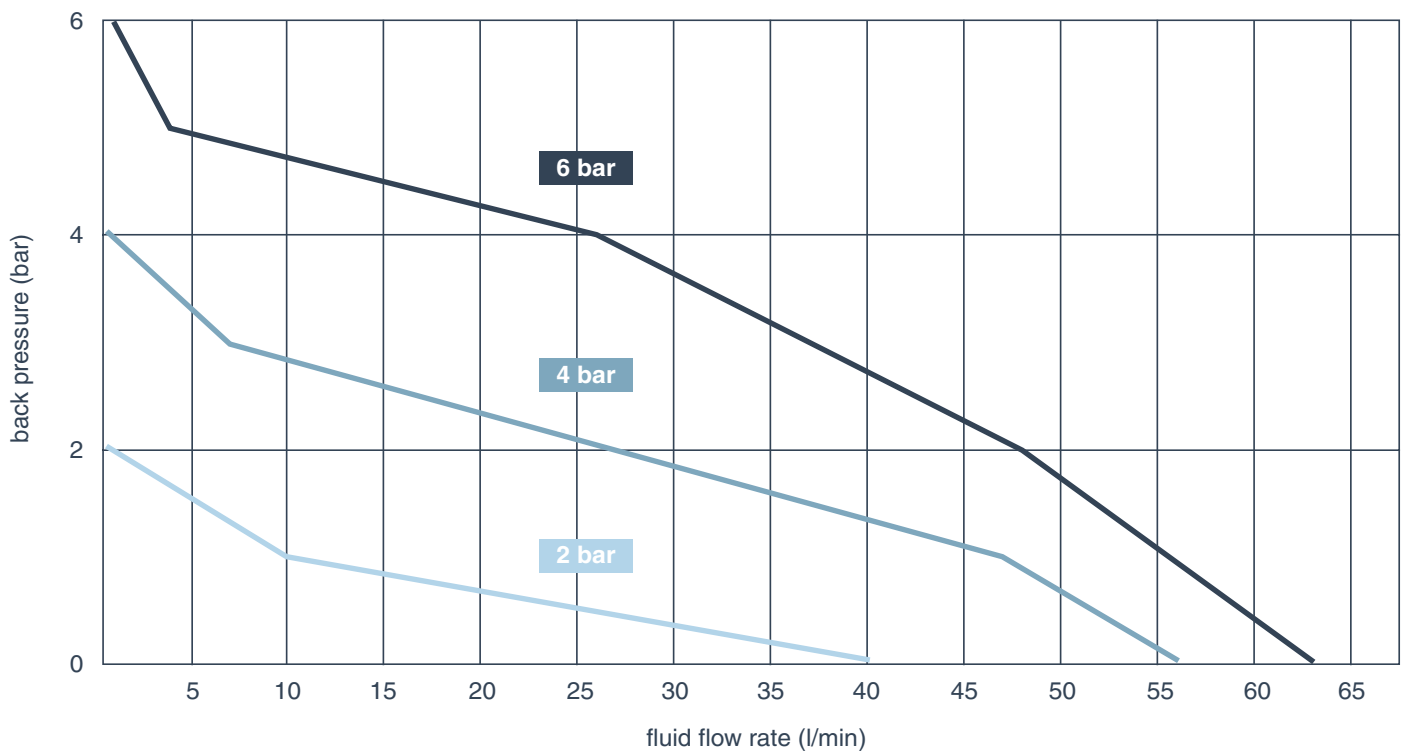
Technical data

Transmission	: 1 to 1
Output (max.)	: approx. 60 l/min (with water) with PTFE-compound diaphragm
Drive	: pneumatic
Fluid connections	: 3/4" Female thread 90° rotatable
Operating pressure	: 1 - 8 bar compressed air, unoled, filtered or oiled
Compressed air connection	: hose external Ø 8 mm, internal Ø 6 mm
Suction height dry (max.)	: 4 m
Weight	: approx. 4,4 kg
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +65 °C
Noise level	: 68 dB (A)
Strokes (max.)	: 8 doublestrokes /s
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: PPS
Middle section of the housing	: aluminium
Fluid seals	: FEPM
Pneumatic seals	: NBR
Valve seats	: stainless steel
Valve balls	: PTFE
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramic flat slide / POM
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: PPS
Springs	: spring steel

Fluid flow rate



Features

- Process reliable
- Simple exchange of the diaphragm
- Chemically resistant diaphragm (high durability)
- Diaphragm CIP-capable
- Optimized flushability
- Small compact design
- Reliable starting due to spring valve
- Low-wear pneumatic ceramic valve (process reliable)
- Low maintenance
- Suction and pressure connection 90° rotatable
- Suitable for dry running

Fluids

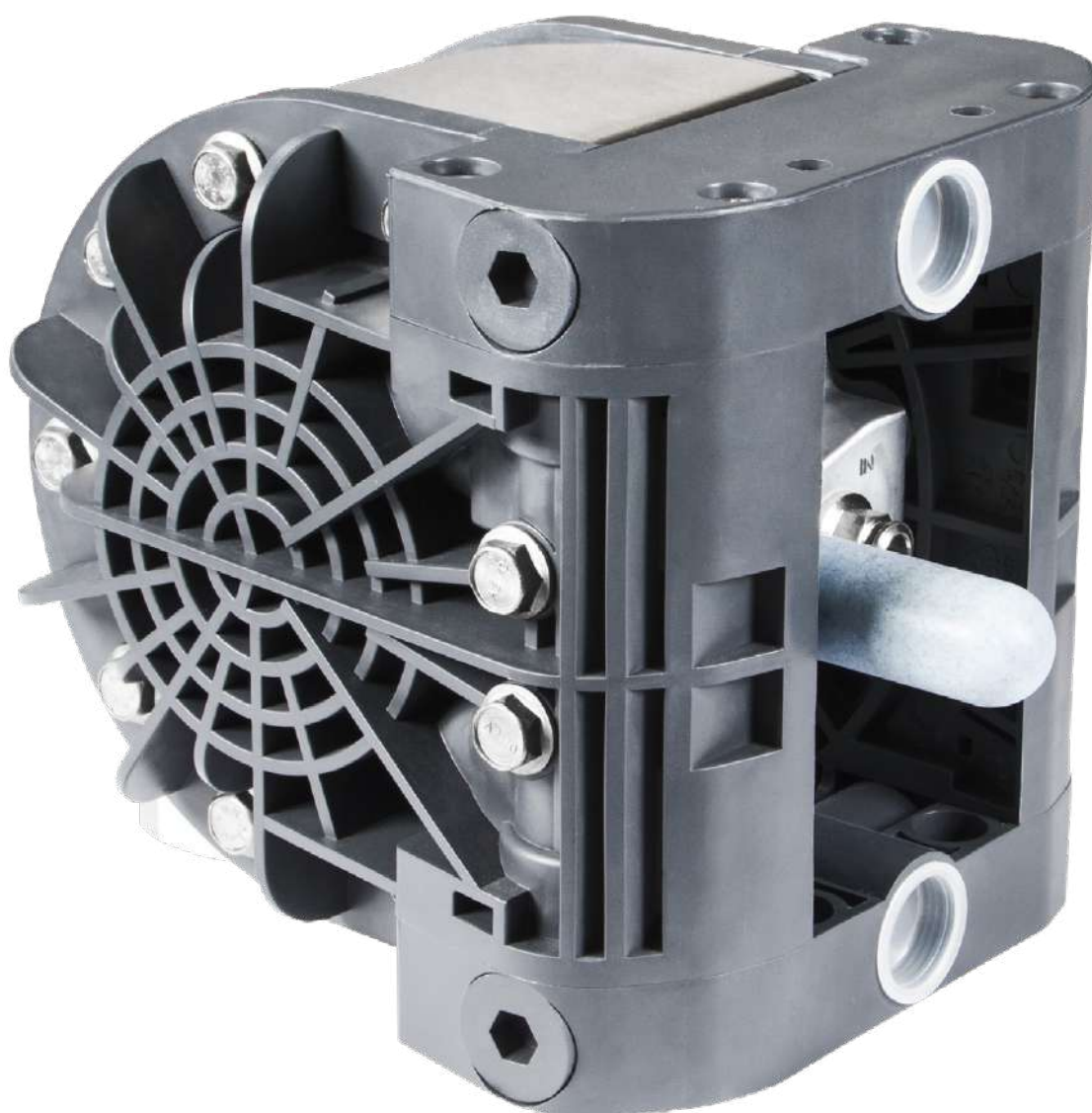
The pump is suitable for conveying various fluids (media). Material resistance has to be examined on a case-by-case basis. We will be pleased to give you advice about the suitability in your specific application.

PTI-MEM1060-PP

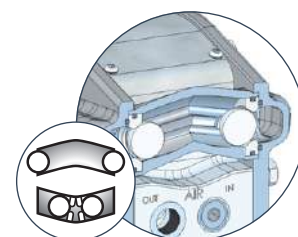
Output approx. 60 l/min



Polypropylene
(PP)



[www.timmer-pumps.com/en/
double_diaphragm_pumps_1to1](http://www.timmer-pumps.com/en/double_diaphragm_pumps_1to1)



Gravity-loaded
valve balls

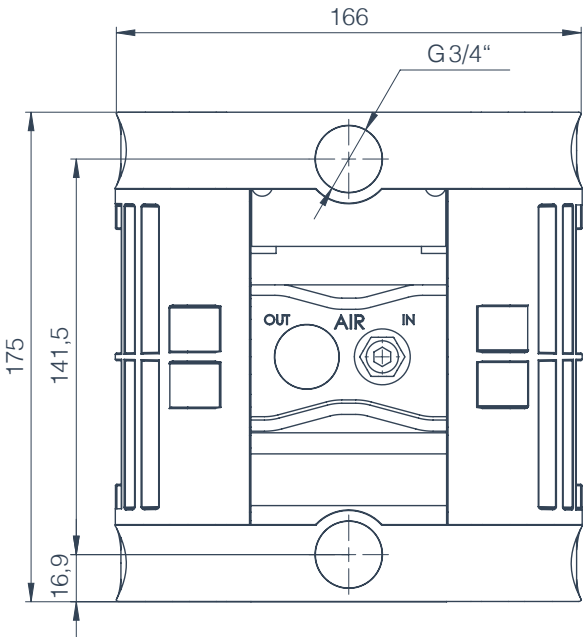
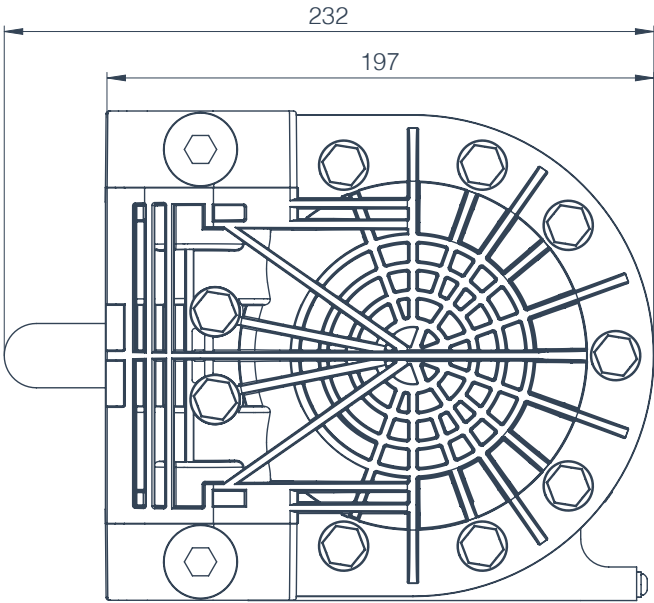
PREMIUM-Double diaphragm pump PTI-MEM1060

Order no.	Type		Alignment of suction pipes	Alignment of pressure pipes	Material design
53509110	PTI-MEM1060V-PP-EP-TF-PV-VIEX-AL		forward	forward	PP

OTHER
VERSIONS
ON
REQUEST



Optional with magnetic
sensor for stroke counting



www.timmer-pumps.com/en/double-diaphragm-pumps-1to1-service

The timPRO series pumps have been successfully used for many years as process and transfer pumps in the area of paint supply and in the printing machine industry.

They are characterized in particular by their process reliability, easy servicing, small and compact design, good workmanship and long service life.

All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

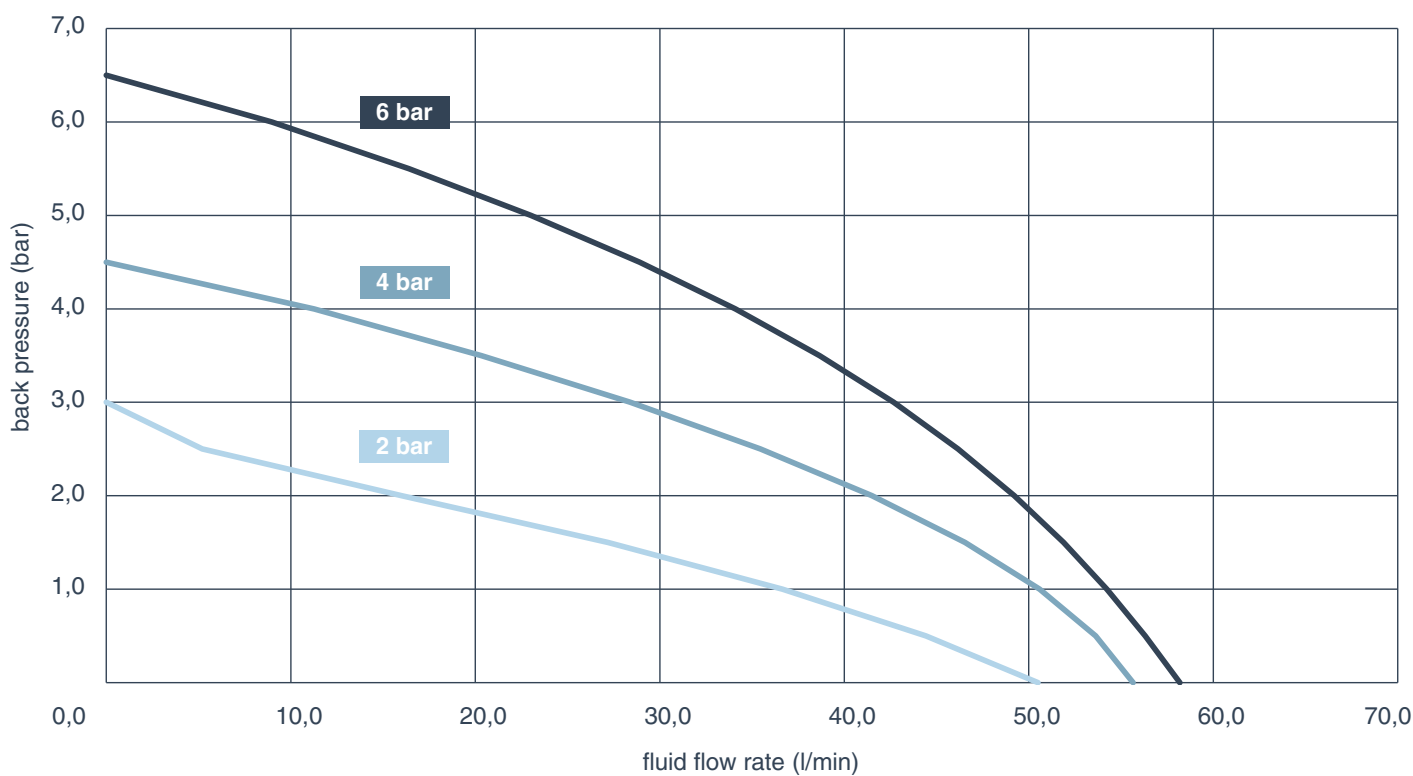
Technical data

Transmission	: 1 to 1
Output (max.)	: approx. 60 l/min (with water)
Drive	: pneumatic
Fluid connections	: G 3/4" Female thread
Operating pressure	: 1 - 7 bar compressed air, unoled, filtered or oiled
Compressed air connection	: G 1/2"
Suction height dry (max.)	: 4 m
Weight	: approx. 4 kg
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: 5 °C up to 60 °C
Noise level	: 64 dB(A) 20 DH/min 0,1 MPa
Strokes (max.)	: 7 doublestrokes /s

Materials

Side part	: PP
Middle section of the housing	: aluminium
Fluid seals	: FKM
Pneumatic seals	: NBR
Valve seats	: PVDF
Valve balls	: PTFE
Diaphragm	: EPDM
Control valves	: ceramics / POM
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: PP
Springs	: not applicable

Fluid flow rate



Features

- Process reliable
- Simple exchange of the diaphragm
- Chemically resistant diaphragm (high durability)
- Diaphragm CIP-capable
- Optimized flushability
- Small compact design
- Reliable starting due to spring valve
- Low-wear pneumatic ceramic valve (process reliable)
- Low maintenance
- Suitable for dry running

Fluids

The pump is suitable for conveying various fluids (media). Material resistance has to be examined on a case-by-case basis. We will be pleased to give you advice about the suitability in your specific application.

PTI-MEM1150

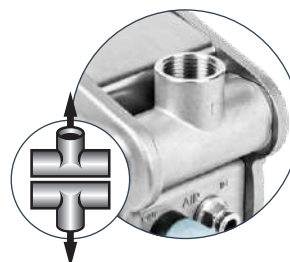
Output approx. 150 l/min
ATEX (for further information
see operating manual)



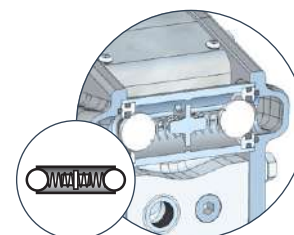
STAINLESS
STEEL (VA)



[www.timmer-pumps.com/en/
double_diaphragm_pumps_1to1](http://www.timmer-pumps.com/en/double_diaphragm_pumps_1to1)






INLINE-Version
MEM1150I



Spring-loaded
media valves

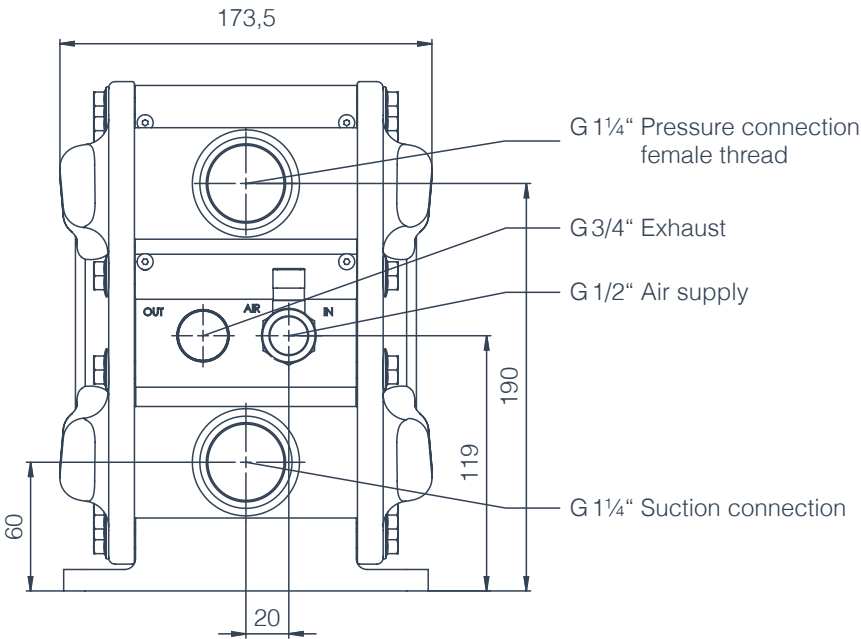
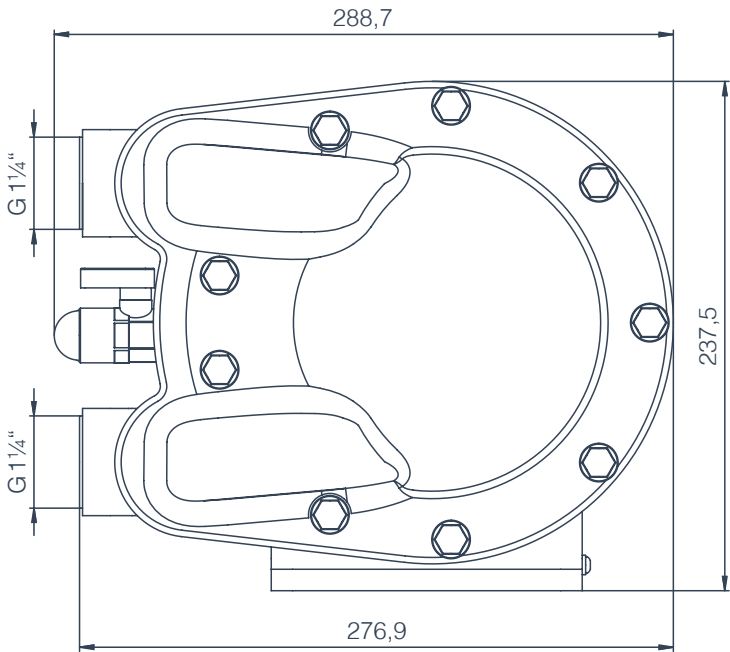
PREMIUM-Double diaphragm pumps PTI-MEM1150

Order no.	Type		Alignment of suction pipes	Alignment of pressure pipes	Material design	ATEX
53507500	PTI-MEM1150-VA-TF-VA-VA-Viex-AL		forward	forward	stainless steel	✓
53507502	PTI-MEM1150I-VA-TF-VA-VA-Viex-AL	 	downward	upward	stainless steel	✓

OTHER
VERSIONS
ON
REQUEST



Optional with magnetic
sensor for stroke counting



www.timmer-pumps.com/en/double-diaphragm-pumps-1to1-service

The timPRO series pumps have been successfully used for many years as process and transfer pumps in the area of paint supply and in the printing machine industry.

They are characterized in particular by their process reliability, easy servicing, small and compact design, good workmanship and long service life.

All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

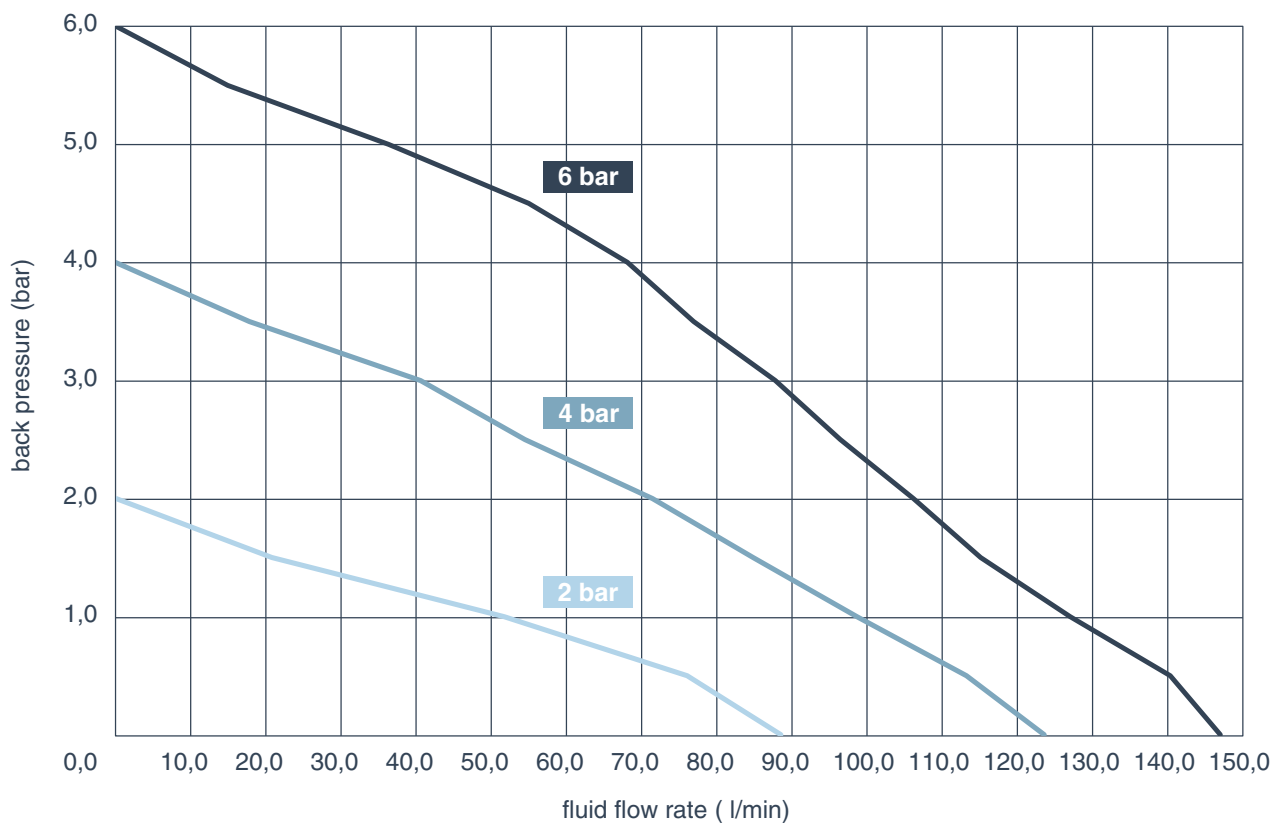
Technical data

Transmission	: 1 to 1
Output (max.)	: approx. 150 l/min (with water) with PTFE-compound diaphragm
Drive	: pneumatic
Fluid connections	: G1¼" Female thread 90° rotatable
Operating pressure	: 1 - 8 bar compressed air, unoled, filtered or oiled
Compressed air connection	: G1/2"
Suction height dry (max.)	: 4 m
Weight	: approx. 15 kg
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +65 °C
Noise level	: 68 dB(A)
Strokes (max.)	: 7 doublestrokes /s
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: stainless steel
Middle section of the housing	: aluminium
Fluid seals	: FEP
Pneumatic seals	: NBR
Valve seats	: stainless steel
Valve balls	: stainless steel
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramic flat slide / POM
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: stainless steel
Springs	: spring steel

Fluid flow rate



Features

- Process reliable
- Simple exchange of the diaphragm
- Chemically resistant diaphragm (high durability)
- Diaphragm CIP-capable
- Optimized flushability
- Small compact design
- Reliable starting due to spring valve
- Low-wear pneumatic ceramic valve (process reliable)
- Low maintenance
- Suction and pressure connection 90° rotatable
- Suitable for dry running

Fluids

The pump is suitable for conveying various fluids (media). Material resistance has to be examined on a case-by-case basis. We will be pleased to give you advice about the suitability in your specific application.

PTI-MEM1150

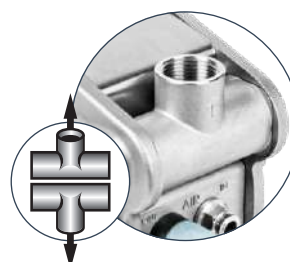
Output approx. 150 l/min
ATEX (for further information
see operating manual)



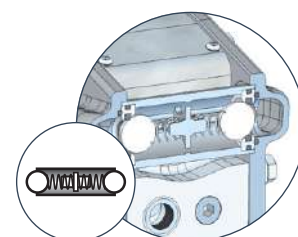
Aluminium
(AL)



[www.timmer-pumps.com/en/
double_diaphragm_pumps_1to1](http://www.timmer-pumps.com/en/double_diaphragm_pumps_1to1)


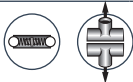


INLINE-Version
MEM1150I



Spring-loaded
media valves

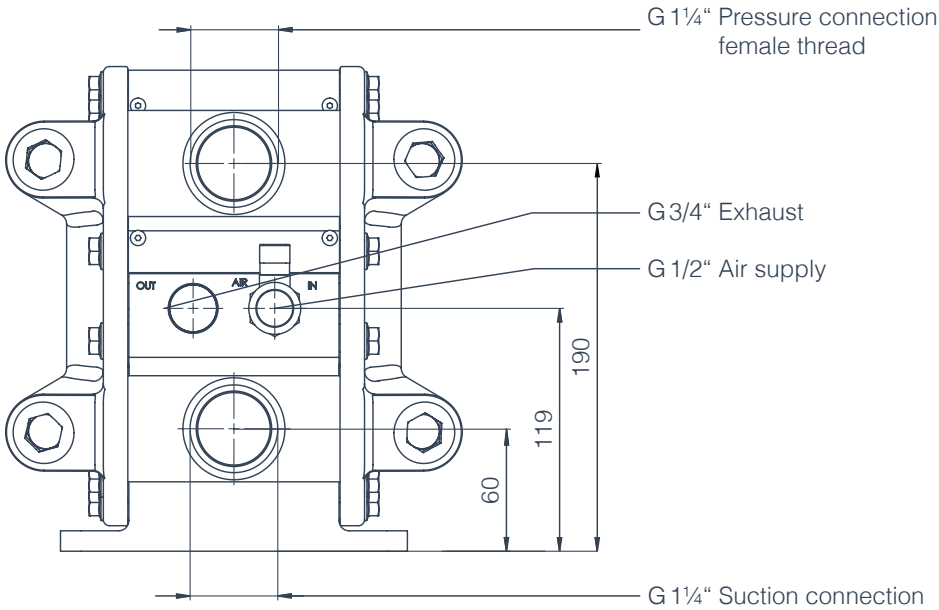
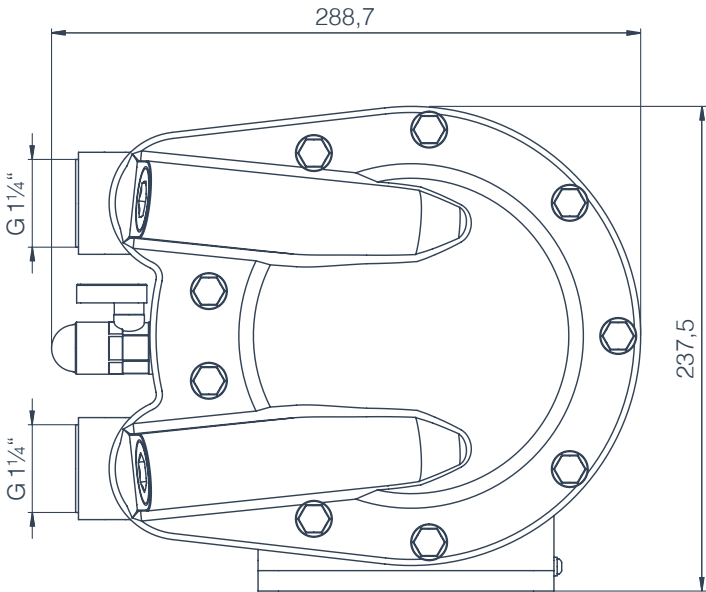
PREMIUM-Double diaphragm pumps PTI-MEM1150

Order no.	Type		Alignment of suction pipes	Alignment of pressure pipes	Material design	ATEX
53507599	PTI-MEM1150-AL-TF-POM-VA-EPDM-AL		forward	forward	AL	✓
53507612	PTI-MEM1150I-AL-TF-POM-VA-EPDM-AL		downward	upward	AL	✓

OTHER
VERSIONS
ON
REQUEST



Optional with magnetic
sensor for stroke counting



www.timmer-pumps.com/en/double-diaphragm-pumps-1to1-service

The timPRO series pumps have been successfully used for many years as process and transfer pumps in the area of paint supply and in the printing machine industry.

They are characterized in particular by their process reliability, easy servicing, small and compact design, good workmanship and long service life.

All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

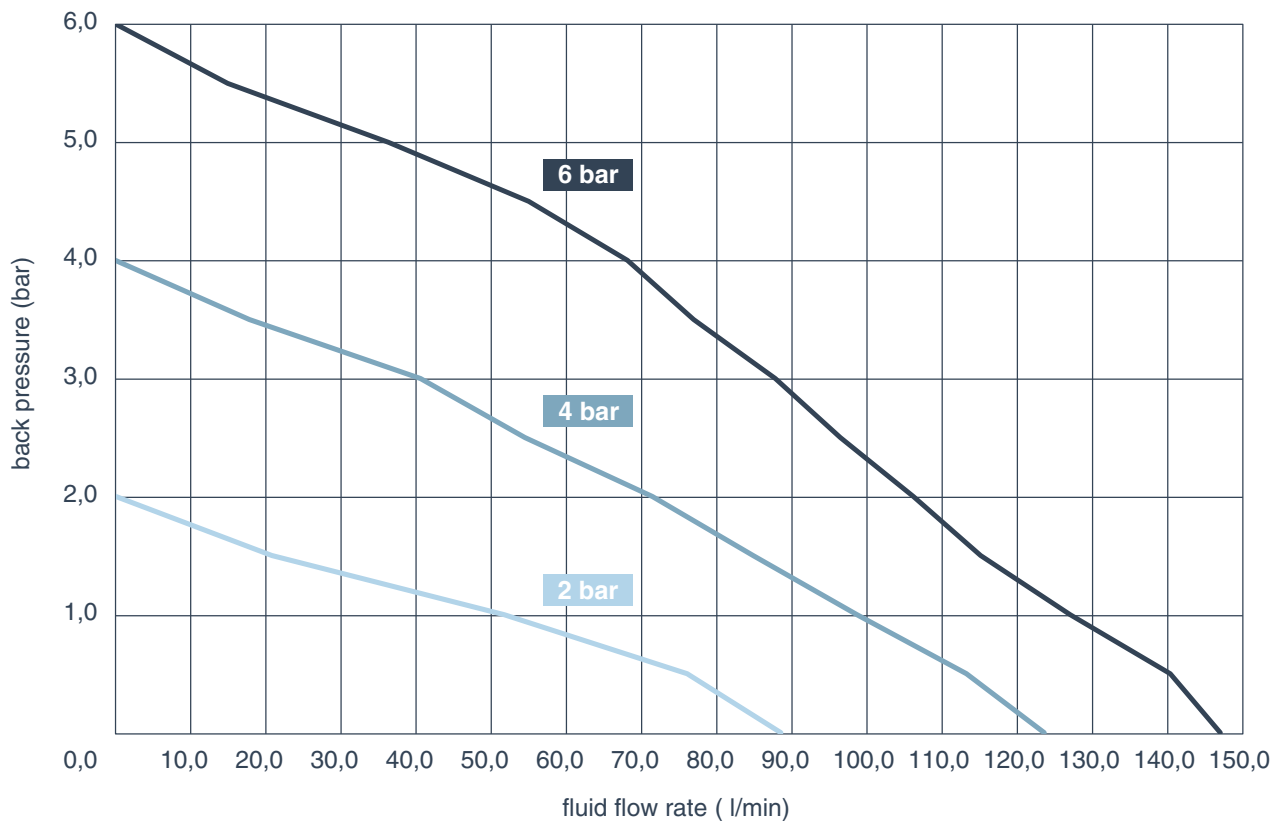
Technical data

Transmission	: 1 to 1
Output (max.)	: approx. 150 l/min (with water) with PTFE-compound diaphragm
Drive	: pneumatic
Fluid connections	: G1¼" Female thread 90° rotatable
Operating pressure	: 1 - 8 bar compressed air, unoiled, filtered or oiled
Compressed air connection	: G1/2"
Suction height dry (max.)	: 4 m
Weight	: approx. 15 kg
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +65 °C
Noise level	: 68 dB(A)
Strokes (max.)	: 7 doublestrokes /s
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: aluminium
Middle section of the housing	: aluminium
Fluid seals	: EPDM
Pneumatic seals	: NBR
Valve seats	: stainless steel
Valve balls	: POM
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramic flat slide
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: aluminium
Springs	: spring steel

Fluid flow rate



Features

- Process reliable
- Simple exchange of the diaphragm
- Chemically resistant diaphragm (high durability)
- Diaphragm CIP-capable
- Optimized flushability
- Small compact design
- Reliable starting due to spring valve
- Low-wear pneumatic ceramic valve (process reliable)
- Low maintenance
- Suction and pressure connection 90° rotatable
- Suitable for dry running

Fluids

The pump is suitable for conveying various fluids (media). Material resistance has to be examined on a case-by-case basis. We will be pleased to give you advice about the suitability in your specific application.

PTI-MHD1030

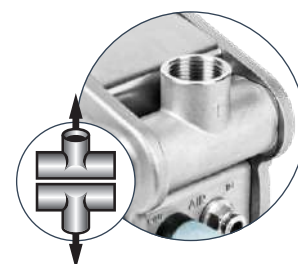
Output approx. 30 l/min
ATEX (for further information
see operating manual)



**STAINLESS
STEEL (VA)**




[www.timmer-pumps.com/en/
pneumatic-high-pressure-pumps](http://www.timmer-pumps.com/en/pneumatic-high-pressure-pumps)



**INLINE-Version
MHD1030I**

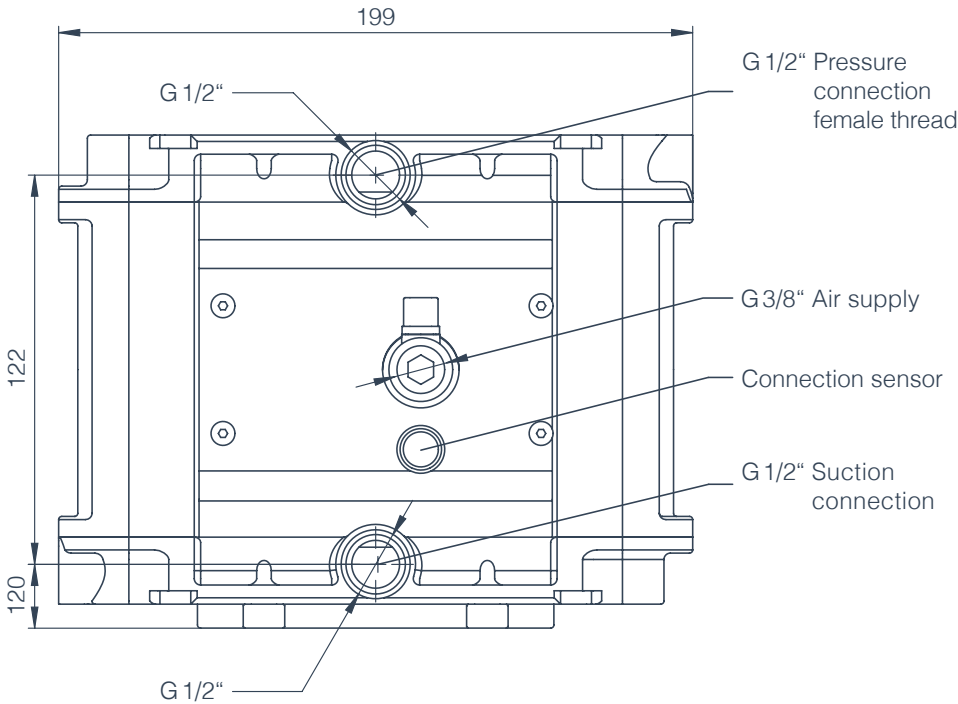
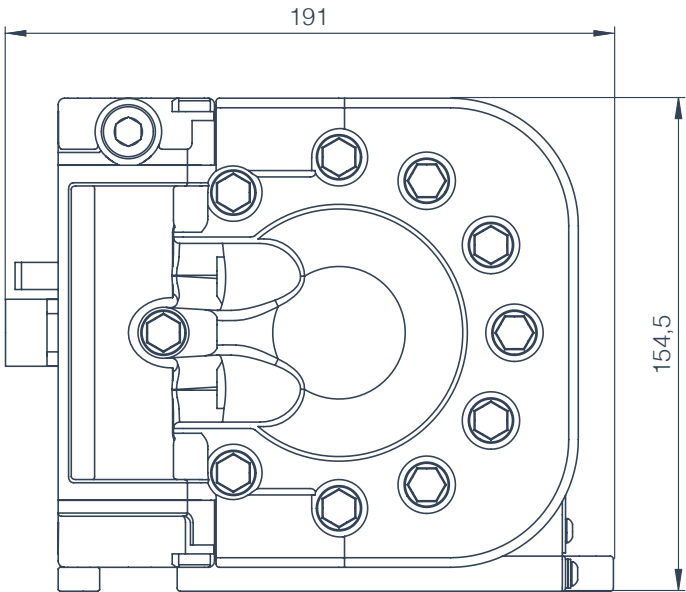
PREMIUM-High pressure double diaphragm pumps PTI-MHD1030

Order no.	Type	Alignment of suction pipes	Alignment of pressure pipes	Material design	ATEX
53508574	PTI-MHD1030-VA-TF-VA-TF-VIEX-AL	forward	forward	stainless steel	✓
53508576	PTI-MHD1030I-VA-TF-VA-TF-VIEX-AL		downward	stainless steel	✓

OTHER
VERSIONS
ON
REQUEST



Optional with magnetic
sensor for stroke counting



www.timmer-pumps.com/en/pneumatic-high-pressure-pumps-service

The pneumatic, pressure-intensified double diaphragm pumps from the timBOOST series have been successfully used for years in the area of paint supply, to supply small and medium-sized systems.

In addition to the process reliability, serviceability, small and compact

design, good workmanship and long service life, the pumps are characterized in particular by the high media pressures that can be achieved.

Furthermore, the series has been extended by the 50l (MHD1050) and 110 l (MHD1110) models, so that the operating range for the pneumatic,

pressure-intensified pumps has significantly increased, making the timBOOST series more versatile. All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

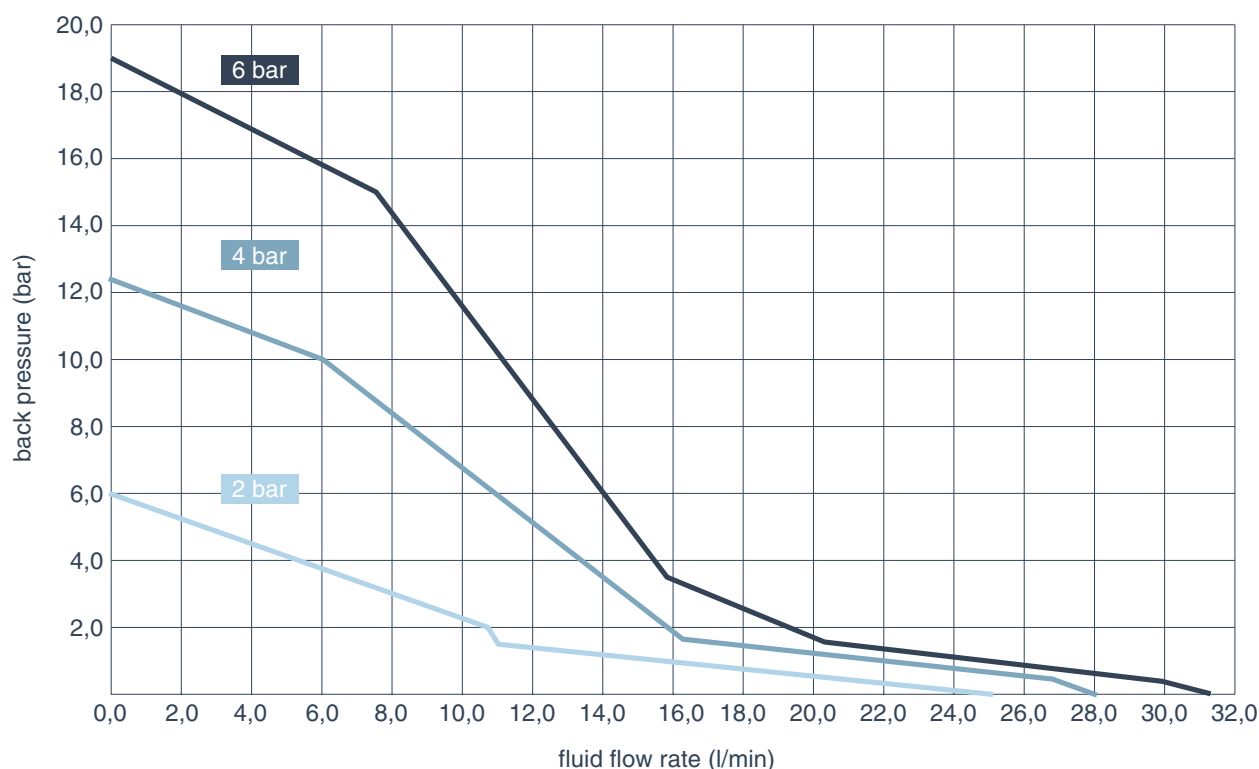
Technical data

Transmission	: approx. 3,5 to 1
Output (max.)	: approx. 30 l/min (with water)
Discharge pressure (max.)	: 20 bar
Drive	: pneumatic
Fluid connections	: 1/2" BSP-Female thread 90° rotatable (different pipe versions required!)
Operating pressure	: 1 - 6 bar compressed air, unoled, filtered or oiled
Compressed air connection	: 1/2" BSP-Female thread
Suction height dry	: approx. 4 meters self-priming
Weight	: approx. 10 kg
Temperature of fluids (max.)	: +5 °C up to + 65 °C
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: stainless steel
Middle section of the housing	: aluminium
Fluid seals	: FEPM
Pneumatic seals	: NBR
Valve seats	: stainless steel/PTFE
Valve balls	: stainless steel
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramic flat slide / POM
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: stainless steel

Fluid flow rate



Features

- Chemically resistant and durable diaphragm at pressures up to 20 bar
- Diaphragm CIP-capable
- Suitable for dry running
- Small compact construction size
- Low-wear pneumatic ceramic valve with safe start-up behavior in every position
- Low maintenance
- High durability of TIM-Flex-Diaphragm
- The use of spring actuated fluid valves offers advantages such as:
good intake behavior, low pulsation, various selectable installation positions,
usability even with highly viscous fluids.
- Optimized flow through the fluid valves and diaphragm chambers,
thus low fluid shear

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your
specific application.

PTI-MHD1050

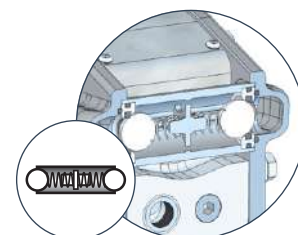
Output approx. 50 l/min
ATEX (for further information
see operating manual)



**STAINLESS
STEEL (VA)**



[www.timmer-pumps.com/en/
pneumatic-high-pressure-pumps](http://www.timmer-pumps.com/en/pneumatic-high-pressure-pumps)



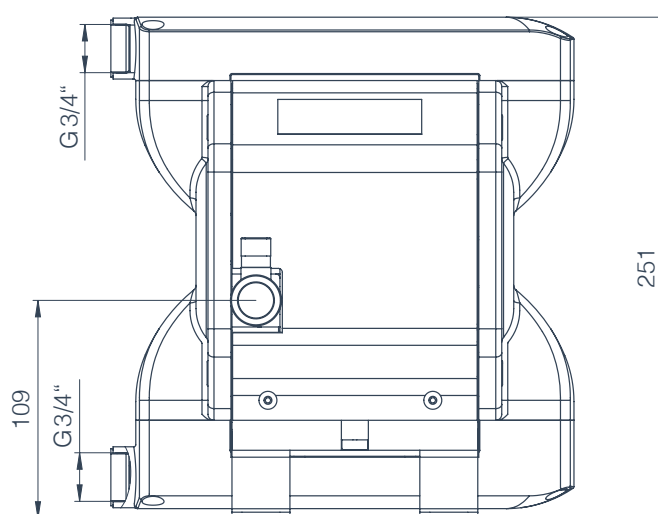
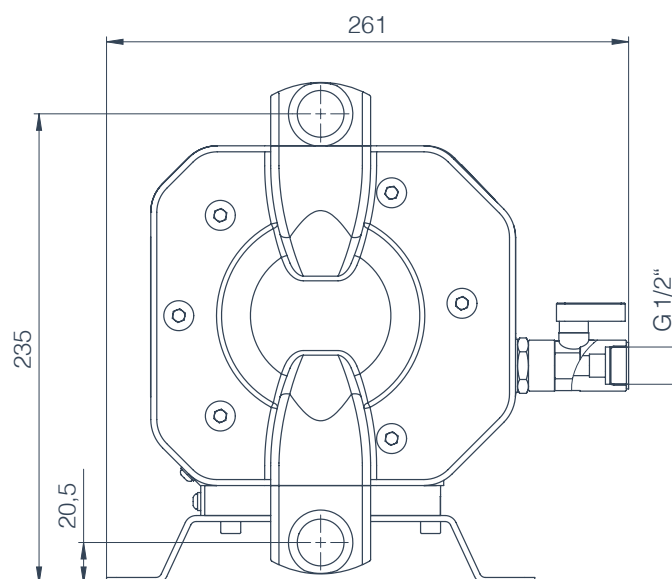
Spring-loaded
media valves

PREMIUM-High pressure double diaphragm pump PTI-MHD1050

Order no.	Type	Alignment of media pipes	Material design	ATEX
53509050	PTI-MHD1050-VA-TF-VA-VA-VIEX-AL	Connections mountable right-or left sided	stainless steel	✓



Optional with magnetic sensor for stroke counting



www.timmer-pumps.com/en/pneumatic-high-pressure-pumps-service

The pneumatic, pressure-intensified double diaphragm pumps from the timBOOST series have been successfully used for years in the area of paint supply, to supply small and medium-sized systems.

In addition to the process reliability, serviceability, small and compact

design, good workmanship and long service life, the pumps are characterized in particular by the high media pressures that can be achieved.

Furthermore, the series has been extended by the 50l (MHD1050) and 110 l (MHD1110) models, so that the operating range for the pneumatic,

pressure-intensified pumps has significantly increased, making the timBOOST series more versatile. All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

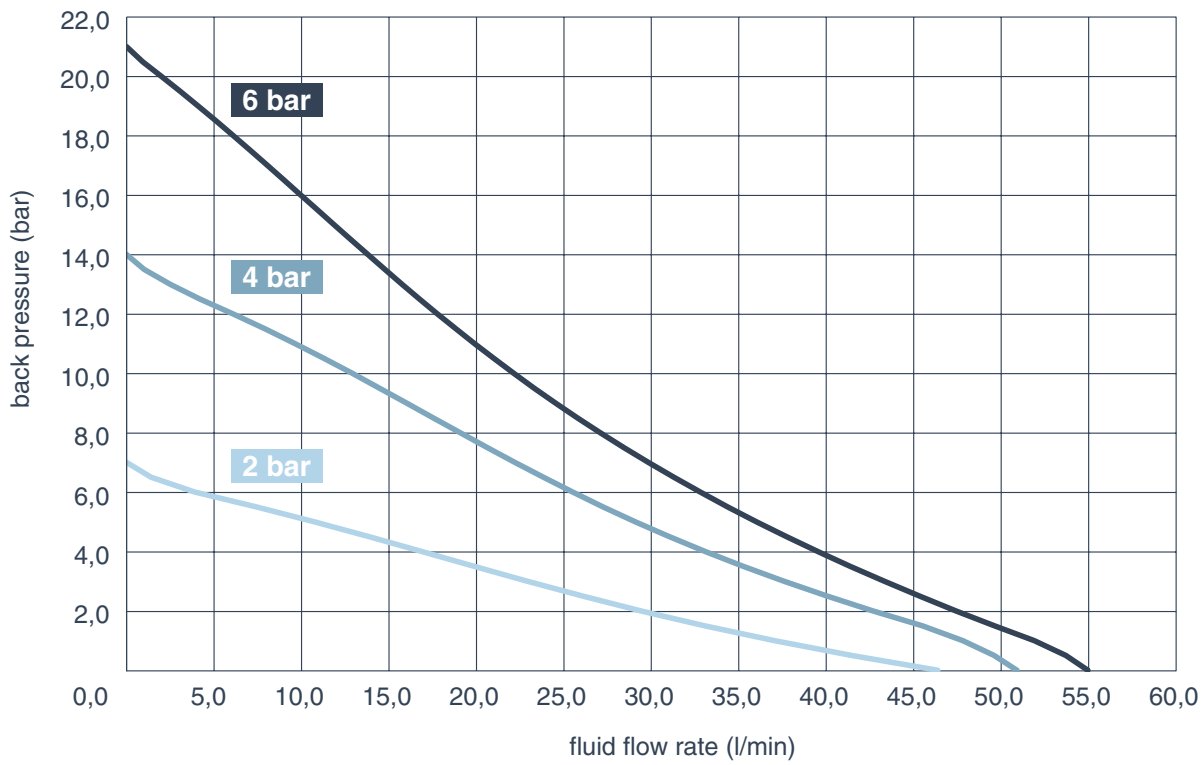
Technical data

Transmission	: approx. 3,5 to 1
Output (max.)	: approx. 50 l/min (with water)
Discharge pressure (max.)	: 20 bar
Drive	: pneumatic
Fluid connections	: 3/4"
Operating pressure	: 1 - 6 bar compressed air, unoled, filtered or oiled
Compressed air connection	: 1/2" BSP-Female thread
Suction height dry	: approx. 4 meters self-priming
Weight	: approx. 15 kg
Temperature of fluids (max.)	: +5 °C up to + 65 °C
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: stainless steel
Middle section of the housing	: Aluminium
Fluid seals	: FEP
Pneumatic seals	: NBR
Valve seats	: stainless steel
Valve balls	: stainless steel
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramic flat slide
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: stainless steel
Springs	: spring steel

Fluid flow rate



Features

- Chemically resistant and durable diaphragm at pressures up to 20 bar
- Diaphragm CIP-capable
- Suitable for dry running
- Small compact construction size
- Low-wear pneumatic ceramic valve with safe start-up behavior in every position
- Low maintenance
- High durability of TIM-Flex-Diaphragm
- The use of spring actuated fluid valves offers advantages such as:
good intake behavior, low pulsation, various selectable installation positions,
usability even with highly viscous fluids.
- Optimized flow through the fluid valves and diaphragm chambers,
thus low fluid shear

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your
specific application.

PTI-MHD1065

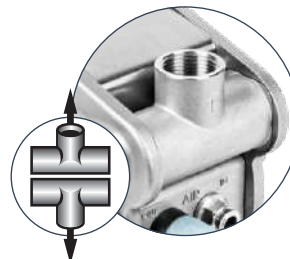
Output approx. 65 l/min
ATEX (for further information
see operating manual)



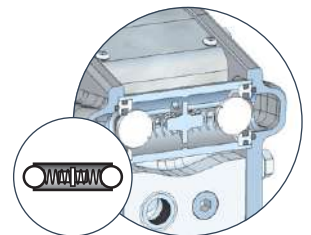
**STAINLESS
STEEL (VA)**



[www.timmer-pumps.com/en/
pneumatic-high-pressure-pumps](http://www.timmer-pumps.com/en/pneumatic-high-pressure-pumps)



INLINE-Version
MHD1065I



Spring-loaded
media valves

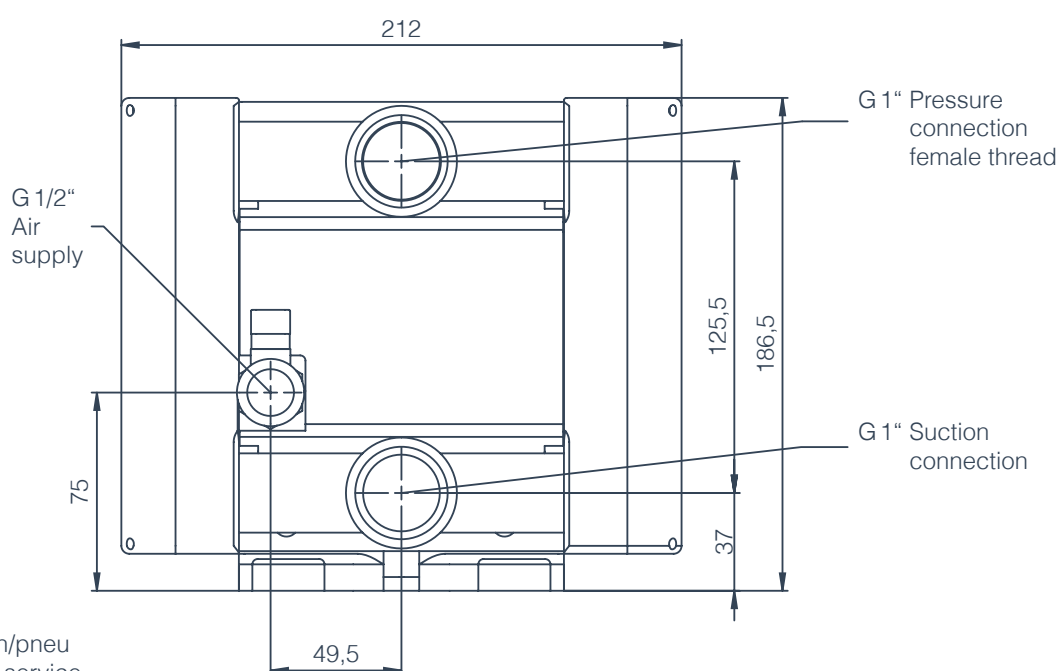
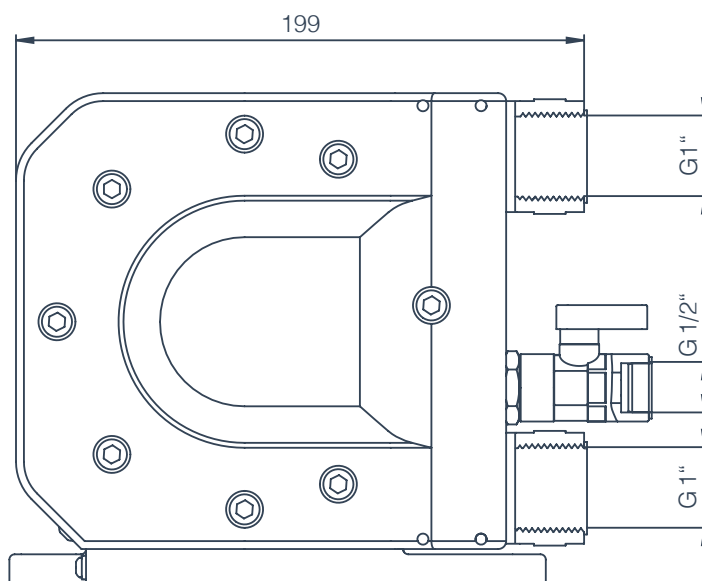
PREMIUM-High pressure double diaphragm pumps PTI-MHD1065

Order no.	Type	Alignment of suction pipes	Alignment of pressure pipes	Material design	ATEX
53508066	PTI-MHD1065-VA-TF-VA-VA-VIEX-AL	forward	forward	stainless steel	✓
53508140	PTI-MHD1065I-VA-TF-VA-VA-VIEX-AL	downward	upward	stainless steel	✓

OTHER
VERSIONS
ON
REQUEST



Optional with magnetic
sensor for stroke counting



www.timmer-pumps.com/en/pneumatic-high-pressure-pumps-service

The pneumatic, pressure-intensified double diaphragm pumps from the timBOOST series have been successfully used for years in the area of paint supply, to supply small and medium-sized systems.

In addition to the process reliability, serviceability, small and compact

design, good workmanship and long service life, the pumps are characterized in particular by the high media pressures that can be achieved.

Furthermore, the series has been extended by the 50l (MHD1050) and 110 l (MHD1110) models, so that the operating range for the pneumatic,

pressure-intensified pumps has significantly increased, making the timBOOST series more versatile. All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

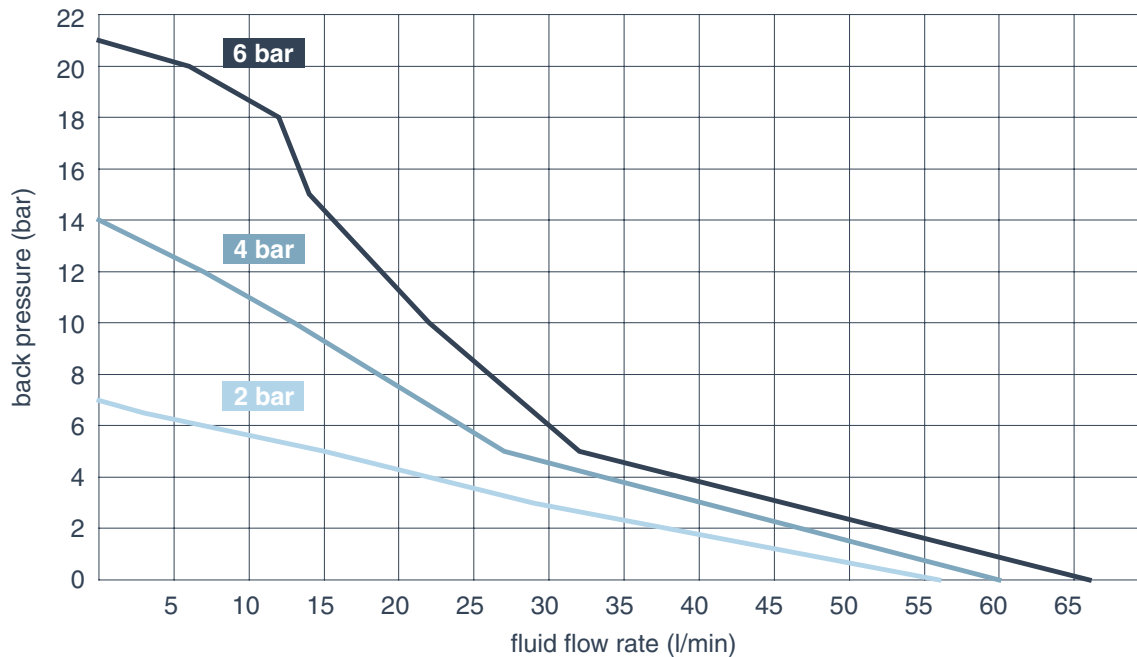
Technical data

Transmission	: approx. 3,5 to 1
Output (max.)	: approx. 65 l/min (with water)
Discharge pressure (max.)	: 20 bar
Drive	: pneumatic
Fluid connections	: 1" BSP-Female thread 90° rotatable (Different pipe versions required!)
Operating pressure	: 1 - 6 bar compressed air, unoled, filtered or oiled
Compressed air connection	: 1/2" BSP-Female thread
Suction height dry	: approx. 4 meters self-priming
Weight	: approx. 15,5 kg
Temperature of fluids (max.)	: +5 °C up to + 65 °C
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: stainless steel
Middle section of the housing	: aluminium
Fluid seals	: FEPM
Pneumatic seals	: NBR
Valve seats	: stainless steel
Valve balls	: stainless steel
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramic flat slide / POM
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: stainless steel
Springs	: spring steel

Fluid flow rate



Features

- Chemically resistant and durable diaphragm at pressures up to 20 bar
- Diaphragm CIP-capable
- Suitable for dry running
- Improved flushability of the pump with low detergent consumption
- Small compact construction size
- Low-wear pneumatic ceramic valve with safe start-up behavior in every position
- No icing, therefore process-reliable
- Low maintenance
- High durability of TIM-Flex-Diaphragm
- The use of spring actuated fluid valves offers advantages such as:
good intake behavior, low pulsation, various selectable installation positions,
usability even with highly viscous fluids.

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your
specific application.

PTI-MHD1110

Output approx. 110 l/min
ATEX (for further information
see operating manual)



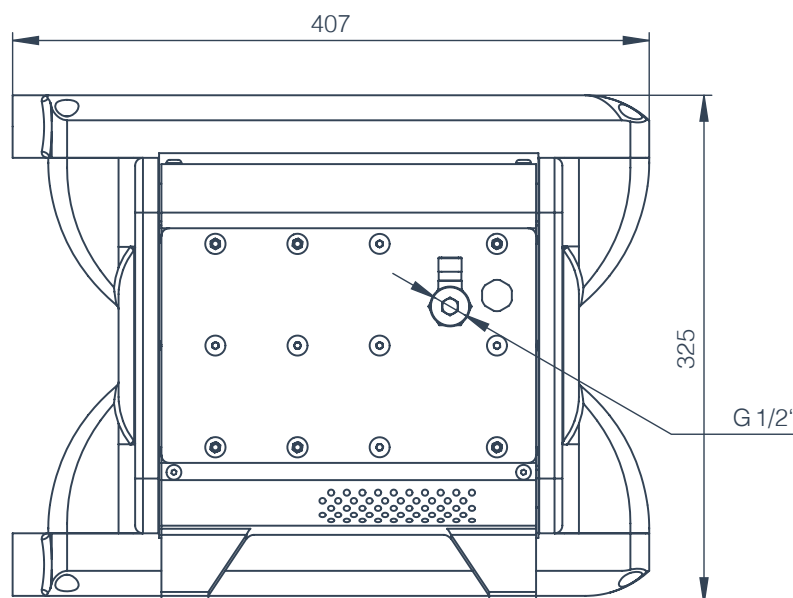
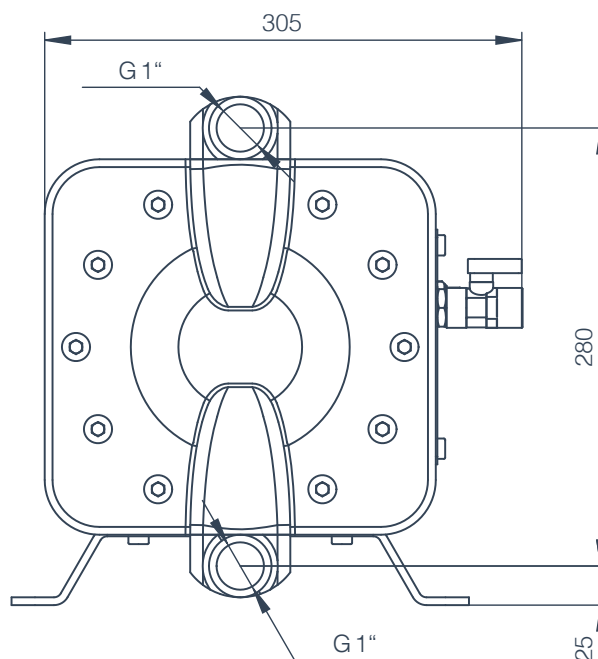
**STAINLESS
STEEL (VA)**



[www.timmer-pumps.com/en/
pneumatic-high-pressure-pumps](http://www.timmer-pumps.com/en/pneumatic-high-pressure-pumps)

PREMIUM-High pressure double diaphragm pump PTI-MHD1110

Order no.	Type	Alignment of media pipes	Material design	ATEX
53509544	PTI-MHD1110V-VA-TF-VA-TF-FEMP-AL	180° rotatable	stainless steel	✓



www.timmer-pumps.com/en/pneumatic-high-pressure-pumps-service

The pneumatic, pressure-intensified double diaphragm pumps from the timBOOST series have been successfully used for years in the area of paint supply, to supply small and medium-sized systems.

In addition to the process reliability, serviceability, small and compact

design, good workmanship and long service life, the pumps are characterized in particular by the high media pressures that can be achieved.

Furthermore, the series has been extended by the 50l (MHD1050) and 110 l (MHD1110) models, so that the operating range for the pneumatic,

pressure-intensified pumps has significantly increased, making the timBOOST series more versatile. All versions are also available on request with sensors that allow real-time testing of stroke signals via a customer PLC.

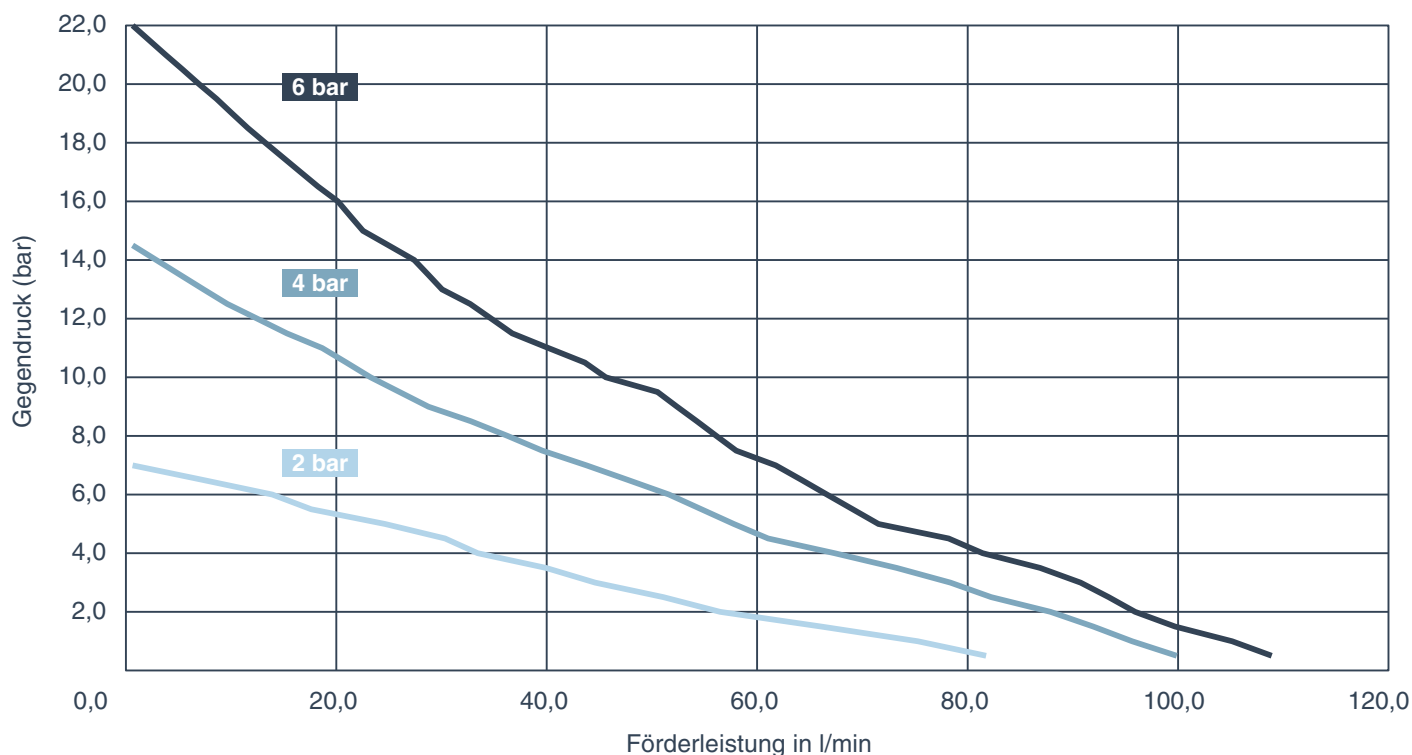
Technical data

Transmission	: 4 to 1
Output (max.)	: approx. 110 l/min (with water)
Discharge pressure (max.)	: 25 bar
Drive	: pneumatic
Fluid connections	: 1" BSP
Operating pressure	: 1 - 7 bar compressed air, unoled, filtered or oiled
Compressed air connection	: G1/2"
Suction height dry	: approx. 4 meters
Weight	: approx. 45 kg
Temperature of fluids (max.)	: +5 °C up to + 65 °C
Ex-Protection	: ATEX (for further information see operating manual)

Materials

Side part	: stainless steel
Middle section of the housing	: aluminium
Fluid seals	: FEPM
Pneumatic seals	: NBR/PUR
Valve seats	: PTFE
Valve balls	: stainless steel
Diaphragm	: PTFE / NBR as composite material
Control valves	: ceramics
Screws	: stainless steel
Cover sheet	: stainless steel
Valve pipes	: stainless steel

Fluid flow rate



Features

- Chemically resistant and durable diaphragm at pressures up to 25 bar
- Diaphragm CIP-capable
- Suitable for dry running
- Removable modular pneumatic valve
- Low-wear pneumatic ceramic valve with safe start-up behavior in every position
- Low maintenance
- High durability of TIM-Flex-Diaphragm
- Optimized flow through the fluid valves and diaphragm chambers, thus low fluid shear

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your specific application.



The intelligent timECO sensor has decisive advantages over conventional sensors for stroke frequency recording. In addition to a variable switching point adjustment to the signal, i.e. where each stroke is recorded, even, for example, if constant magnetic field interference is present, the magnetism of the magnet decreases, or the distance between the magnet and the sensor is displaced*, the intelligent timECO sensor also has the option of clear

allocation of pumps. This can be used to determine the life cycle of the pump (sum of all strokes, average frequency, frequency histogram).

The recording and storage of this data gives enormous potential for increasing plant or machine availability, because, among other things, maintenance intervals can be adapted to the respective specific process parameters of the pump, and preventive maintenance

can be planned, i.e. the risk of a pump failure during the current process can be minimized.

In addition, the signals of the sensor can be transmitted to the customer PLC in real time, which in turn allows process monitoring. Take the opportunity to use the intelligent timECO sensor for your process and develop with us towards Industry 4.0.

* The max. displacement must not leave the reception area of the sensor.



Features

- Frequency sensor with recording option of operating data (Frequency Histogram, Strokes)
- Stored data can be read out via PC program
- A Unique serial number for the pump identification inside the controller can be modulated as a switching signal
- Resettable and continuous stroke counter
- Self-adjusting sensor - Switching points are variably adjusted to the signal
- Namur-interface
- Resistant to magnetic field changes
- Plug connection free positionable
- Fully integrated into the pump housing

Advantages compared to conventional sensors:

- Variable switching point adaptation to the signal
- Assignment of the sensor to a unique serial number of the pump
- Determination and storage of:
Sum of all strokes, Ø frequencies, frequency histogram

PTI-KPE1020

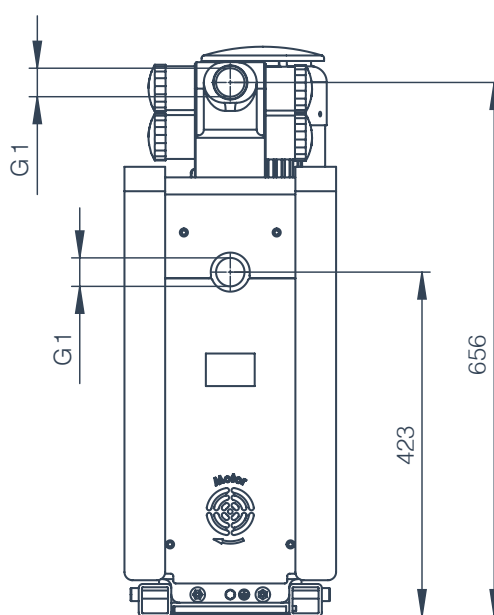
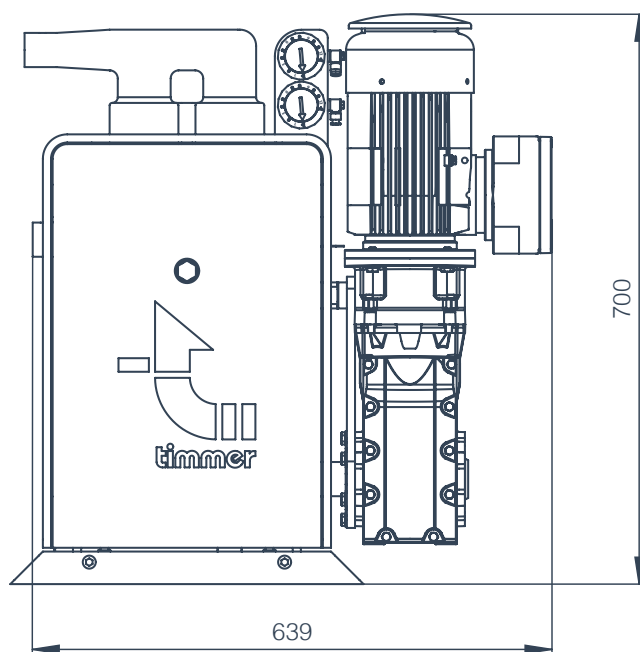
Output 20 l/min
ATEX (for further information
see operating manual)



[www.timmer-pumps.com/en/
electrically-piston-pumps](http://www.timmer-pumps.com/en/electrically-piston-pumps)

PREMIUM-Electrically driven piston pump PTI-KPE1020

Order no.	Type	Output	ATEX
53602000	PTI-KPE1020-VA-TF-PE-FEPM-400V/50Hz-1,3kW	20l	✓



[www.timmer-pumps.com/en/
piston-pumps-electric-service](http://www.timmer-pumps.com/en/piston-pumps-electric-service)

The electric piston pumps from the timECO series have been specially developed for larger paint supply systems. In addition to a small, compact design, which allows integrating the pumps without significant effort, especially in retrofit projects, the pumps of the series also provide many other benefits.

- Low-shear material flow that increases the service life of the fluid.
- Continuous lubricators, which ensure a continuous lubrication of the bearings.
- A synchronized piston drive kinematics ensures a uniform media flow.
- Vertically arranged pistons, which ensure a uniform load on the piston seals and thus better service life.
- Short piping lengths resulting in lower paint filling volume and thus less wetted surfaces, better rinsing capability and lower fluid consumption (paints, varnishes, solvents, ...).

Technical data

Output (max.)	: permanent 20 l/min (with water)
Discharge pressure (max.)	: 16 bar (20 bar on request)
Drive	: electrical gearmotor
Possible installation position	: horizontal
Fluid connections	: G1" female thread
Suction height dry	: approx. 6 m
Weight	: approx. 126 kg
Noise level	: approx. <70 dB(A)
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +5 up to +60 °C
Ex-Protection	: ATEX (for further information see operating manual)

Electrical data

Electrical connection	: 3 x 400V /50 Hz
Drive power (max.)	: approx. 1,3 kW (87 Hz)



Materials

Cylinder head	: stainless steel
Cylinder block	: stainless steel
Piston	: stainless steel / ceramic-coated
Bellows	: PTFE-compound
Piston seals	: PE-compound
Fluid seals	: FEPM
Valve balls	: stainless steel
Valve seats	: stainless steel

Features

- Gentle conveying
- Reliable
- Good chemical resistance
- Low-maintenance
- Easy maintenance
- Permanent lubricating system
- Small, compact design
- Ideally matched piston drive
- Constant delivery volume
- Constant high media pressures
- Low filling volume
- Short piping lengths

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your specific application.

PTI-KPE1030

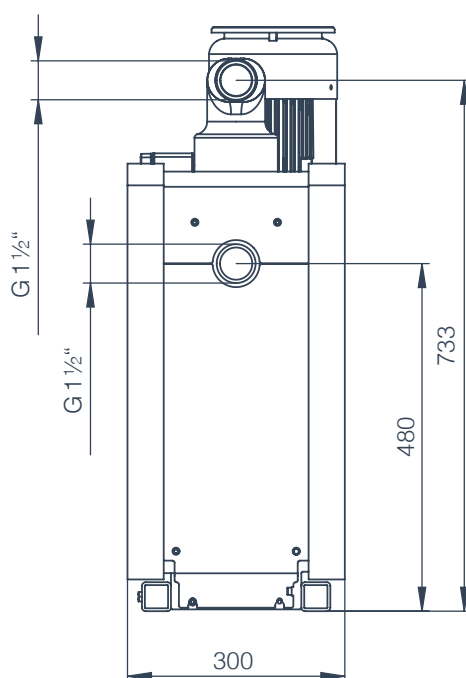
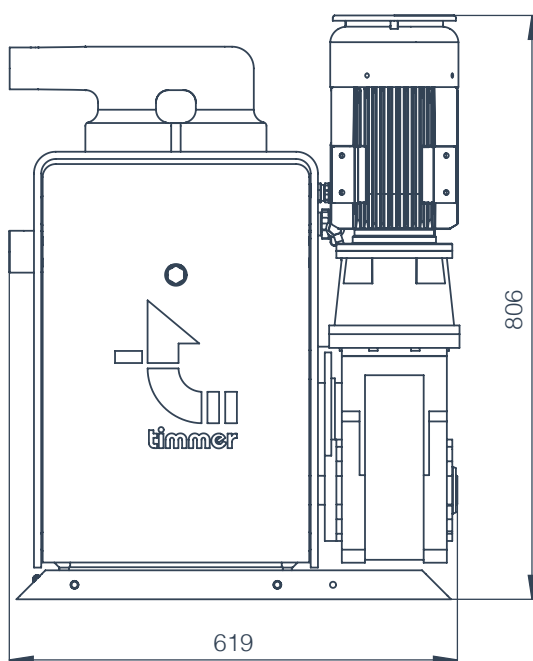
Output 30 l/min
ATEX (for further information
see operating manual)



[www.timmer-pumps.com/en/
electrically-piston-pumps](http://www.timmer-pumps.com/en/electrically-piston-pumps)

PREMIUM-Electrically driven piston pump PTI-KPE1030

Order no.	Type	Output	ATEX
53600007	PTI-KPE1030-VA-TF-PE-FEPM-400V/50Hz-1,3kW	30l	✓



[www.timmer-pumps.com/en/
piston-pumps-electric-service](http://www.timmer-pumps.com/en/piston-pumps-electric-service)

The electric piston pumps from the timECO series have been specially developed for larger paint supply systems. In addition to a small, compact design, which allows integrating the pumps without significant effort, especially in retrofit projects, the pumps of the series also provide many other benefits.

- Low-shear material flow that increases the service life of the fluid.
- Continuous lubricators, which ensure a continuous lubrication of the bearings.
- A synchronized piston drive kinematics ensures a uniform media flow.
- Vertically arranged pistons, which ensure a uniform load on the piston seals and thus better service life.
- Short piping lengths resulting in lower paint filling volume and thus less wetted surfaces, better rinsing capability and lower fluid consumption (paints, varnishes, solvents, ...).

Technical data

Output (max.)	: 30 l/min (with water)
Discharge pressure (max.)	: 16 bar (20 bar on request)
Drive	: electrical gearmotor
Possible installation position	: horizontal
Fluid connections	: G1 ½" female thread
Piston diameter	: Ø 100 mm
Stroke	: 50 mm
Suction height dry	: approx. 6 m
Weight	: approx. 195 kg
Noise level	: approx. 70 dB(A)
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +5 up to +65 °C
Ex-Protection	: ATEX (for further information see operating manual)

Electrical data

Electrical connection	: 3 x 400V /50 Hz
Drive power (max.)	: approx. 1,3 kW (87 Hz)



Materials

Cylinder head	: stainless steel
Cylinder block	: stainless steel
Piston	: stainless steel / ceramic-coated
Bellows	: PTFE-compound
Piston seals	: PE-compound
Fluid seals	: FEPM
Valve balls	: stainless steel
Valve seats	: stainless steel

Features

- Gentle conveying
- Reliable
- Good chemical resistance
- Low-maintenance
- Easy maintenance
- Permanent lubricating system
- Small, compact design
- Ideally matched piston drive
- Constant delivery volume
- Constant high media pressures
- Low filling volume
- Short piping lengths

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your specific application.

PTI-KPE1040

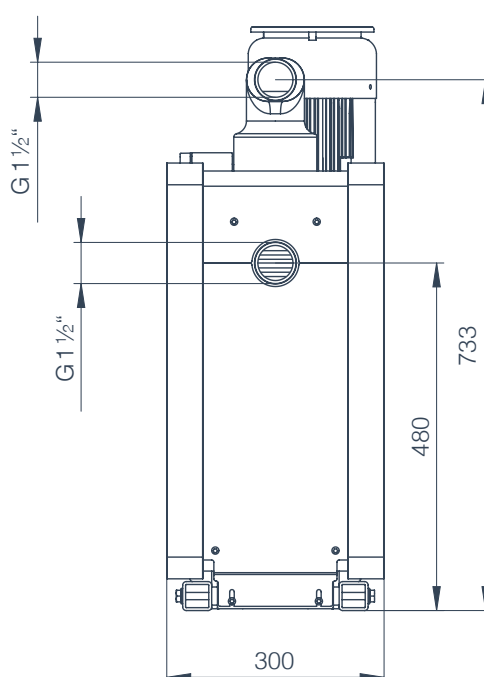
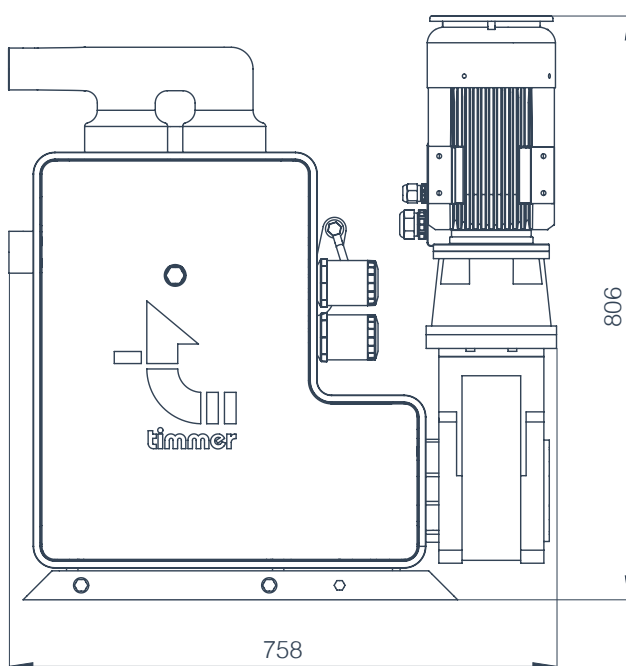
Output 40 l/min
ATEX (for further information
see operating manual)



[www.timmer-pumps.com/en/
electrically-piston-pumps](http://www.timmer-pumps.com/en/electrically-piston-pumps)

PREMIUM-Electrically driven piston pump PTI-KPE1040

Order no.	Type	Output	ATEX
53600002	PTI-KPE1040-VA-TF-PP-FEPM-400V/50Hz-2,6	40l	✓



[www.timmer-pumps.com/en/
piston-pumps-electric-service](http://www.timmer-pumps.com/en/piston-pumps-electric-service)

The electric piston pumps from the timECO series have been specially developed for larger paint supply systems. In addition to a small, compact design, which allows integrating the pumps without significant effort, especially in retrofit projects, the pumps of the series also provide many other benefits.

- Low-shear material flow that increases the service life of the fluid.
- Continuous lubricators, which ensure a continuous lubrication of the bearings.
- A synchronized piston drive kinematics ensures a uniform media flow.
- Vertically arranged pistons, which ensure a uniform load on the piston seals and thus better service life.
- Short piping lengths resulting in lower paint filling volume and thus less wetted surfaces, better rinsing capability and lower fluid consumption (paints, varnishes, solvents, ...).

Technical data

Output (max.)	: 40 l/min (with water)
Discharge pressure (max.)	: 20 bar
Drive	: electrical gearmotor
Possible installation position	: horizontal
Fluid connections	: G 1 ½" female thread
Piston diameter	: Ø 100 mm
Stroke	: 50 mm
Suction height dry	: approx. 6 m
Weight	: approx. 195 kg
Noise level	: approx. 70 dB(A)
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +5 up to +65 °C
Ex-Protection	: ATEX (for further information see operating manual)

Electrical data

Electrical connection	: 3 x 400V /50 Hz
Drive power (max.)	: 2,6 kW (87 Hz)



Materials

Cylinder head	: stainless steel
Cylinder block	: stainless steel
Piston	: stainless steel / ceramic-coated
Bellows	: PTFE-compound
Piston seals	: PE-compound
Fluid seals	: FEPM
Valve balls	: stainless steel
Valve seats	: stainless steel

Features

- Gentle conveying
- Reliable
- Good chemical resistance
- Low-maintenance
- Easy maintenance
- Permanent lubricating system
- Small, compact design
- Ideally matched piston drive
- Constant delivery volume
- Constant high media pressures
- Low filling volume
- Short piping lengths

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your specific application.

PTI-KPE1060

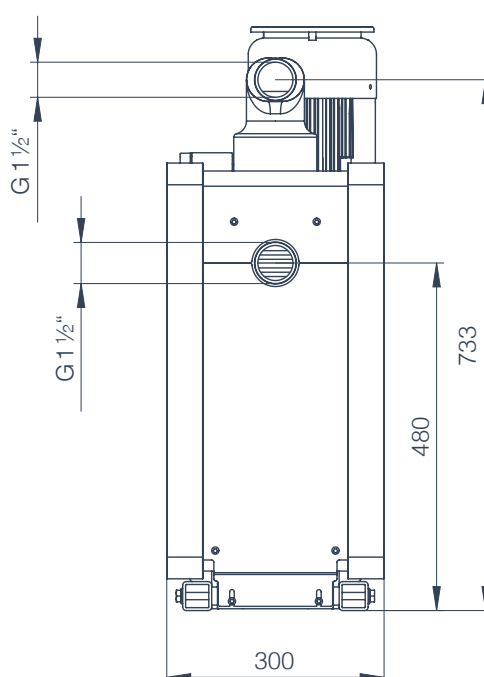
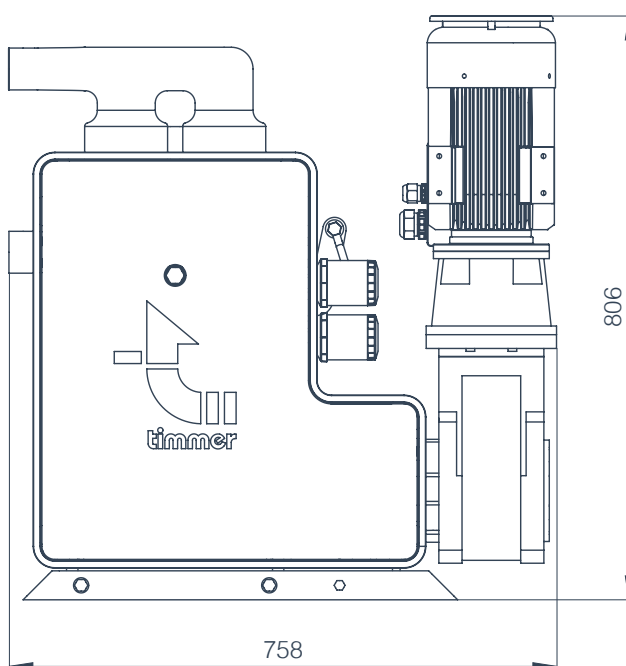
Output 60 l/min
ATEX (for further information
see operating manual)



[www.timmer-pumps.com/en/
electrically-piston-pumps](http://www.timmer-pumps.com/en/electrically-piston-pumps)

PREMIUM-Electrically driven piston pump PTI-KPE1060

Order no.	Type	Output	ATEX
53605001	PTI-KPE1060-VA-TF-PP-FEPM-400V/50Hz-2,6	60l	✓



[www.timmer-pumps.com/en/
piston-pumps-electric-service](http://www.timmer-pumps.com/en/piston-pumps-electric-service)

The electric piston pumps from the timECO series have been specially developed for larger paint supply systems. In addition to a small, compact design, which allows integrating the pumps without significant effort, especially in retrofit projects, the pumps of the series also provide many other benefits.

- Low-shear material flow that increases the service life of the fluid.
- Continuous lubricators, which ensure a continuous lubrication of the bearings.
- A synchronized piston drive kinematics ensures a uniform media flow.
- Vertically arranged pistons, which ensure a uniform load on the piston seals and thus better service life.
- Short piping lengths resulting in lower paint filling volume and thus less wetted surfaces, better rinsing capability and lower fluid consumption (paints, varnishes, solvents, ...).

Technical data

Output (max.)	: 60 l/min (with water)
Discharge pressure (max.)	: 16 bar
Drive	: electrical gearmotor
Possible installation position	: horizontal
Fluid connections	: G 1 ½" female thread
Piston diameter	: Ø 100 mm
Stroke	: 50 mm
Suction height dry	: approx. 6 m
Weight	: approx. 195 kg
Noise level	: approx. 70 dB(A)
Viscosity of pumped medium	: up to 15.000 mPas
Temperature of fluids (max.)	: +5 up to +65 °C
Ex-Protection	: ATEX (for further information see operating manual)

Electrical data

Electrical connection	: 3 x 400V /50 Hz
Drive power (max.)	: 2,6 kW (87 Hz)



Materials

Cylinder head	: stainless steel
Cylinder block	: stainless steel
Piston	: stainless steel / ceramic-coated
Bellows	: PTFE-compound
Piston seals	: PE-compound
Fluid seals	: FEPM
Valve balls	: stainless steel
Valve seats	: stainless steel

Features

- Gentle conveying
- Reliable
- Good chemical resistance
- Low-maintenance
- Easy maintenance
- Permanent lubricating system
- Small, compact design
- Ideally matched piston drive
- Constant delivery volume
- Constant high media pressures
- Low filling volume
- Short piping lengths

Fluids

The pump is suitable for conveying various fluids (media).
 Material resistance has to be examined on a case-by-case basis.
 We will be pleased to give you advice about the suitability in your specific application.



CONTROL
WITH INNOVATIVE
tim[®] PRO
SOFTWARE

Control unit

- Operation via touch panel / buttons
- Pressure and volume flow control preselectable
- Rights and user management
- Multiple parameter settings possible
- Graphic display of the printing process
- Graphic display of the volumetric flow
- Siemens[®] S7[®] control
- Monitoring of pressure and volume flow
- Operating data acquisition (quantity and switch-on time)
- Connection: 3 x 400V, 50Hz
- Temperature monitoring of the motor
- Intrinsically safe disconnection of the pressure sensor, pressure switch and reflux regulator

PREMIUM-Control unit for electrically driven piston pumps

Order no.	Type	Scope of supply
53601600	KPE1020	Control cabinet (completely assembled), operating panel: TFT colour display with touch operation and keys incl. software TimPRO [®] 20
53601678	KPE1030	Control cabinet (completely assembled), operating panel: TFT colour display with touch operation and keys incl. software TimPRO [®] 30
53601601	KPE1040	Control cabinet (completely assembled), operating panel: TFT colour display with touch operation and keys incl. software TimPRO [®] 40
53601602	KPE1060	Control cabinet (completely assembled), operating panel: TFT colour display with touch operation and keys incl. software TimPRO [®] 60

Cost-effective design

Savings potential due to energy saving powerful drive for highly dynamic media conveyance.

Permanent lubricants ensure a permanent lubrication of the bearings in the drive train for approx. one year.

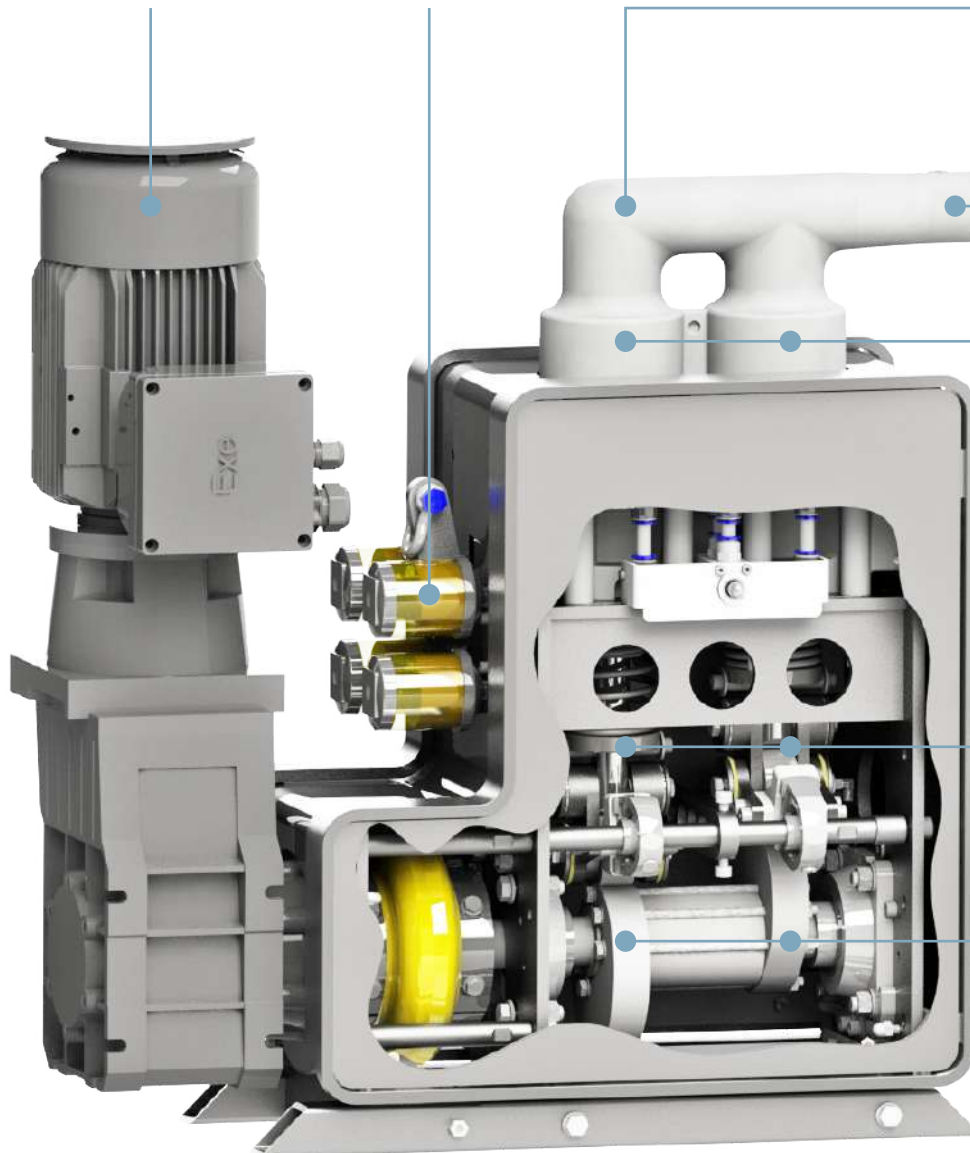
Minimum piping routes ensure good flushing and low paint volumes within the pump.

G1 ½ internal thread allows versatile and individual connection options.

Vertical arrangement of the pistons ensures low wear of the valves and make springs inside of the valve redundant.

Innovative piston drive kinematics

Camshaft drive ensures absolutely low-pulsation media flow.



Cost savings

- No compressed air systems required
- Reduced operating costs due to low power consumption
- Longer service life due to low wear
- Full control of pump performance
- Low shear forces
- High process reliability
- Simple maintenance due to modular design

WTI-MDRP

Flow rate approx. 40 l/min
ATEX (for further information
see operating manual)



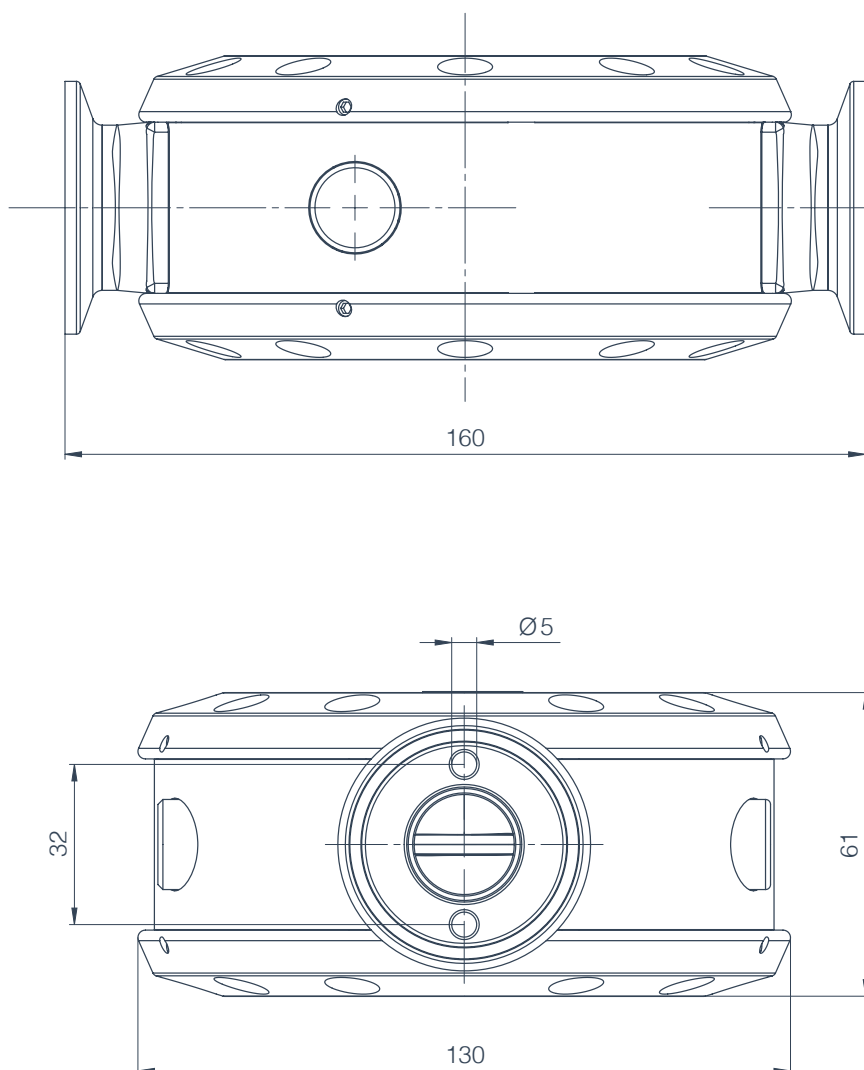
**STAINLESS
STEEL (VA)**



[www.timmer-pumps.com/en/
back_pressure_regulator](http://www.timmer-pumps.com/en/back_pressure_regulator)

Back pressure regulator WTI-MDRP

Order no.	Type	Material design	ATEX
53504050	WTI-MDRP-3/4-20-VA-TF	VA	✓



[www.timmer-pumps.com/en/
back-pressure-regulator-service](http://www.timmer-pumps.com/en/back-pressure-regulator-service)

The timECO material dynamic pressure controller from Timmer was specially developed for a low-shear process in the area of paint supply. Since discharge volumes in the operation of the ring circuit system are time-independent, or in other words unrhythmic, there are pressure fluctuations within the ring circuit system.

The pneumatically adjustable material dynamic pressure controller solves this problem and ensures that a constant dynamic pressure is achieved through automatic flow cross-section adjustments.

Compared with conventional dynamic pressure controllers, the timECO material dynamic pressure controller

significantly lowers the shear stress of the fluid due to its diaphragm arrangement.

The fluid can thus be significantly longer used in the process.

The material dynamic pressure controller can be supplied with individual connections if required.

Technical data

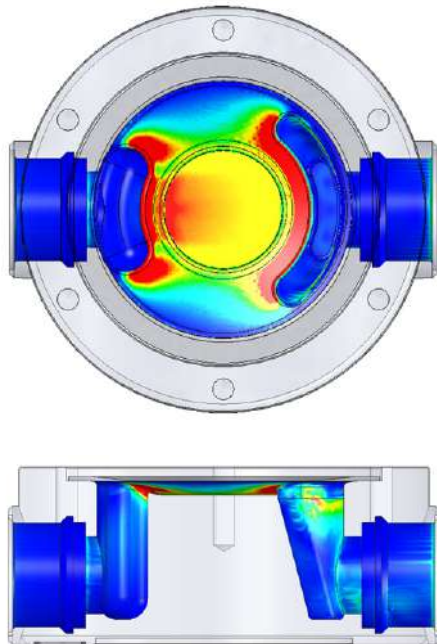
Flow rate (max.)	: 40 l/min (with water)
Transmission	: approx. 3:1
Compressed air connection	: G1/4"
Fluid pressure (max.)	: 25 bar
Control range fluid sided	: 3-20 bar, 5-40 l/min
Fluid connections	: M28x1,5 thread for receiving individual connections (standard: clamp connections)
Operating air pressure (max.)	: 1 - 8 bar compressed air, unoled, filtered or oiled
Total weight	: approx. 2,8 kg
Ambient temperature (max.)	: +5 up to +35°C at a maximum of 80% relative humidity
Dimensions in mm (B x T x H)	: 160 x 130 x 61
Ex-Protection	: ATEX (for further information see operating manual)

Materials

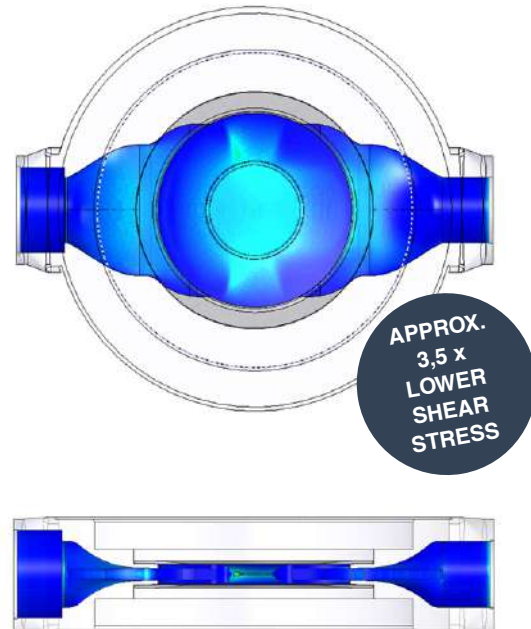
Body	: stainless steel
Piston	: aluminium alloy
Control diaphragm	: PTFE (wetted side) / NBR
Air diaphragm	: PTFE
Housing	: stainless steel / aluminium alloy
Seal	: PTFE

Shear stress diagram

**Conventional
back pressure regulator**



tim[®] ECO | **Timmer
back pressure regulator**



Features

- Low-shear material flow
- Good rinsing capability
- Low-maintenance
- Easy maintenance
- Good chemical resistance
- Lower paint carryover compared to conventional material dynamic pressure controllers
- Compact design
- Individual media screw connections possible
- No installation requirements regarding flow direction

Fluids

The back pressure regulator is suitable for conveying various fluids (media).
The resistance to media must be checked in individual cases.
We will be glad to advise you on the suitability for your specific application.

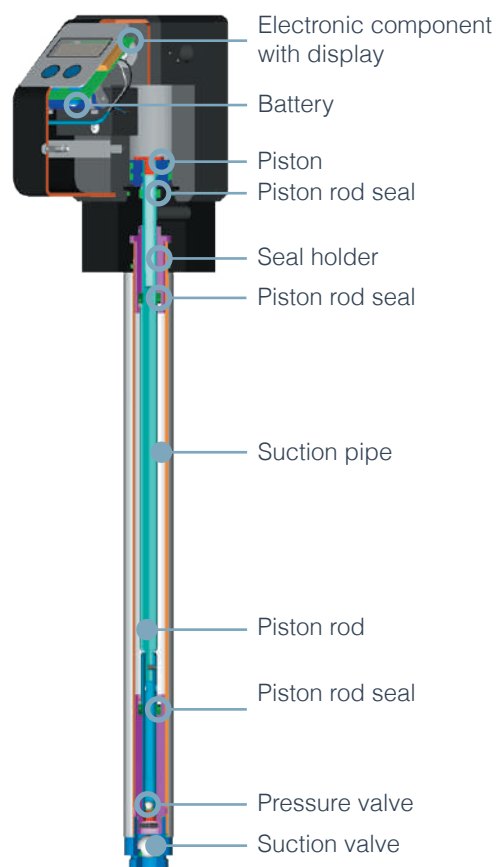
Fluids	: paints, varnishes and solvents (Resistance to conveyed media must be checked in each use case)
Maximum viscosity of conveyed fluids	: approx. 15.000 mPa·s
Fluid temperature (max.)	: +5°C up to +60°C
Material of wetted parts	: stainless steel, PTFE

PTI-E2-KDP-ZST

Electrical time control



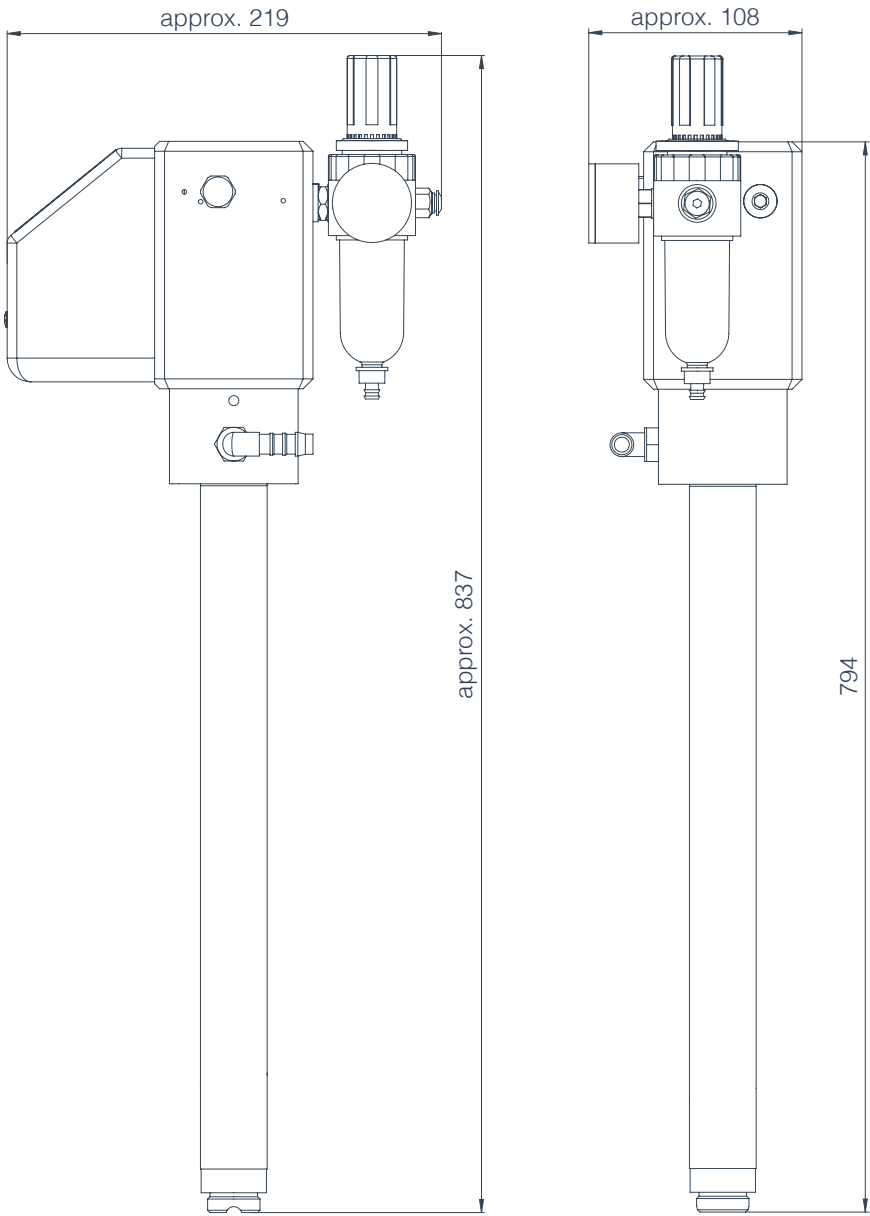
IP44



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

PREMIUM-Pneumatc coagulant pumps PTI-E2-KDP-ZST

Order no.	Type	Output (per doublestroke)	Suction pipe length	Control	Protection class
52100040	PTI-E2-KDP-ZST-06-630-FKM	6 ml	630 mm	Time control	IP44
52100044	PTI-E2-KDP-ZST-06-400-FKM	6 ml	400 mm	Time control	IP44



[www.timmer-pumps.com/en/
service-coagulant-pumps](http://www.timmer-pumps.com/en/service-coagulant-pumps)

Time control

When the pre-set time has elapsed, a pumping stroke is performed automatically and the pre-set time starts over again from the beginning.

Time storage

The pumping stroke starts automatically once the preset time has elapsed. In this operating mode the total time

consists of several individual time intervals. For example, if the total time is set to 5 minutes and the individual work process takes 1 minute, these minutes are added. Whereby the pause time between the operating processes is not included in the total time.

Basic version

The pump is not equipped with an own control valve. The function should be

controlled with an external 5/2- or 4/2-way valve. Compressed air connection of the pump: 1/8" internal thread.

Continuous stroke

The pump has integrated control valves for oscillating operation. Once the compressed air supply is switched on, the pump starts constantly pumping. The stroke speed can be adjusted via a throttle.

Technical data

Drive	: pneumatic
Drive principle	: self-priming - volumetric
Suction height	: self-priming approx. 5 m WS
Output (with water)	: 6 cm ³ / doublestroke (0,18 l/min / 10,8 l/h)
Number of Strokes (max.)	: 30 strokes / min
Temperature of fluids (max.)	: 70 °C
Viscosity of pumped medium (max.)	: 100.000 mPas
Suction side - Connection	: suction pipe (standard length 630 mm)
Pressure side - Connection	: hose nozzle NW 9 mm - 3/8"
Weight	: 2,5 kg
Overall length	: 805 mm (other lengths on request)
Battery	: 3,6 Volt
Protection class	: IP44

Materials

Drive housing	: POM
Liquid housing	: POM
Suction pipe	: stainless steel
Liquid seals	: PU-modified, conditionally acid and alkali resistant
Liquid valve balls	: stainless steel
Electrical housing	: PE
Pressure joint	: POM - 9 mm hose nozzle
Suction nozzle	: POM
Liquid valve seat	: FKM - O-Ring

Pneumatic data

Compressed air connection	: PU hose 6/4 mm G1/4"
Operating air pressure	: 3 - 6 bar filtered compressed air
Air consumption (max.)	: 15 l/min (continuous operation)
Solenoid valve	: 3/2-ways piezo valve

Additional versions of the pneumatic coagulant pumps PTI-E2-KDP-ZST

Order no.	Type	Flow rate (per double stroke)	Suction pipe length	Control	Protection class
52100041	PTI-E2-KDP-ZST-30-630-FKM	30 ml	630 mm	Time control	IP44
52100053	PTI-E2-KDP-ZST-30-400-FKM	30 ml	400 mm	Time control	IP44
52050216	PTI-E2-KDP-ZSP-06-630-FKM	6 ml	630 mm	Time storage	IP44
52050220	PTI-E2-KDP-ZSP-06-400-FKM	6 ml	400 mm	Time storage	IP44
52050217	PTI-E2-KDP-ZSP-30-630-FKM	30 ml	630 mm	Time storage	IP44
52050222	PTI-E2-KDP-ZSP-30-400-FKM	30 ml	400 mm	Time storage	IP44
52050067	PTI-E2-KDP-G-06-630-FKM	6 ml	630 mm	Basic version	IP44
52050115	PTI-E2-KDP-G-30-630-FKM	30 ml	630 mm	Basic version	IP44
52050118	PTI-E2-KDP-G-30-400-FKM	30 ml	400 mm	Basic version	IP44
52050006	PTI-E2-KDP-OS-06-630-FKM	6 ml	630 mm	Continuous stroke	IP44
52050002	PTI-E2-KDP-OS-06-400-FKM	6 ml	400 mm	Continuous stroke	IP44

Features

- Integrated pneumatic electronic control
- Separate air and fluid parts
- High vacuum during priming
- Improved liquid conveyance
- Easy operating
- Low noise
- Cost effective

Fluids

The pump is suitable for conveying various fluids (media).
Material resistance has to be examined on a case-by-case basis.
We will be pleased to give you advice about the suitability in your specific application.

Suction pipes extensions (Stainless steel pipes up to max. 100 cm, suction valve)

Order no.	Type	Extension
52060070-250-FKM	PTI-E2-ZUB-Z430-250-FKM	250 mm
52060070-330-FKM	PTI-E2-ZUB-Z430-330-FKM	330 mm
52060070-430-FKM	PTI-E2-ZUB-Z430-430-FKM	430 mm



Mounting clamp ring (pump height adjustment)

Order no.	Type	Scope of supply
52060024	PTI-E2-ZUB-Z610-Montagering	plastic clamp, thrust piece, clamping screw



Battery (3,6 Volt)

Order no.	Type	Service life
52030250	PTI-E2-ZUB-Z900-Battery	approx. 1 year



Wide neck barrel with reinforced lid (PE-Wide neck barrel, reinforced lid)

Order no.	Type	Liters	Required length of suction pipe
52060034	PTI-E2-ZUB-Fass-30L	30	400 mm
52020034	PTI-E2-ZUB-Fass-60L	60	630 mm



Compressed air connection with hose (compressed air hose, nozzle for coupling DN 7)

Order no.	Type	Hose length	Hose ø internal	Hose ø external
52060090	PTI-E2-ZUB-DLA-2M	2 m	4 mm	6 mm
52060091	PTI-E2-ZUB-DLA-5M	5 m	4 mm	6 mm



Conveying hose PVC

Order no.	Type	Hose length	Scope of supply
52060095	PTI-E2-ZUB-Förderschlauch-2M	2 m	PVC hose 15/9, hose clamp, hose nozzle, check valve, ball valve, fully assembled
52060096	PTI-E2-ZUB-Förderschlauch-5M	5 m	



E - Dual stop valve 1/4"

Order no.	Type	Application
52060054	PTI-E2-ZUB-Förderschlauch-2M	Holding of spray gun: pilot air is cut-off, time is interrupted.



Start-pressure valve

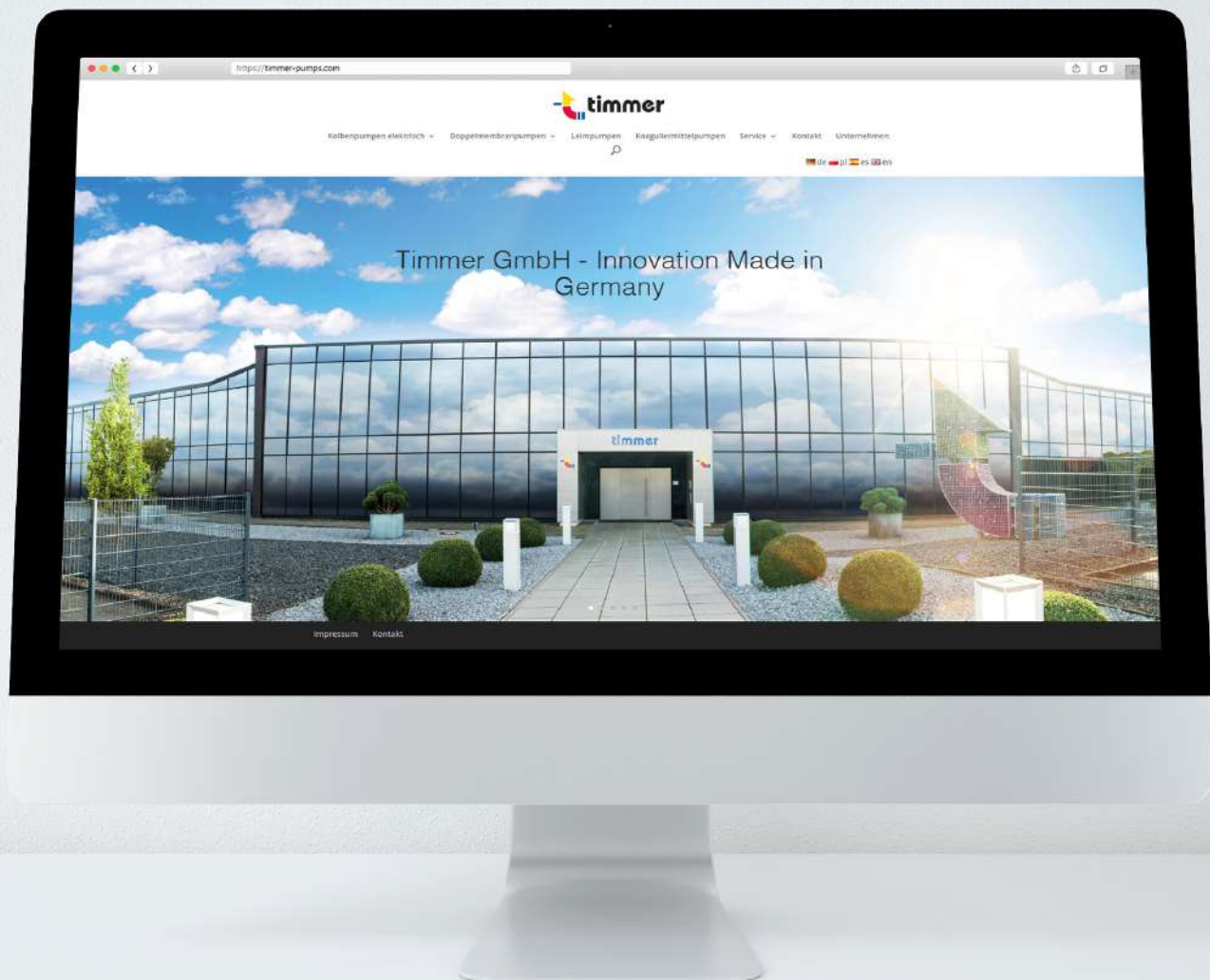
Order no.	Type	Application
23900003	PTI-E2-ZUB-STDV-32-1/4-NG	As soon as the spray gun is used, the preset time at the pump starts running.



Typical dyn. viscosities

Substance	Temperature	Viscosity (mPas)
Bee honey	40°C	2.000
Blood	37°C	4 up to 25
Printing ink	40°C	550 up to 2.200
Liquid egg	45°C	150
Liquid soap	60°C	85
Fruit juice	20°C	50
Vegetable soup	20°C	430
Glucose	25°C	4.300 up to 6.800
Glycol	20°C	40
Glycerin 100%	20°C	1.500
Glycerin 100%	0°C	12.100
Hand cream	20°C	8.000
Yogurt	40°C	150
Jam	20°C	8.500
Coatings (25% of pigments)	20°C	3.000
Liqueurs	20°C	10 up to 100
Milk	20°C	2
Engine Oil SAE 15W40	20°C	390
Engine Oil SAE 15W40	-15°C	3.000
Sodium hydroxide 50%	20°C	45
Olive oil	40°C	40
Petroleum	20°C	0,65
Mercury	20°C	1,55
Shampoo	20°C	3.000
Syrup	20°C	100.000
Tomato ketchup	30°C	1.000
Water	20°C	1
Water-based paint	20°C	900
Toothpaste	40°C	70.000

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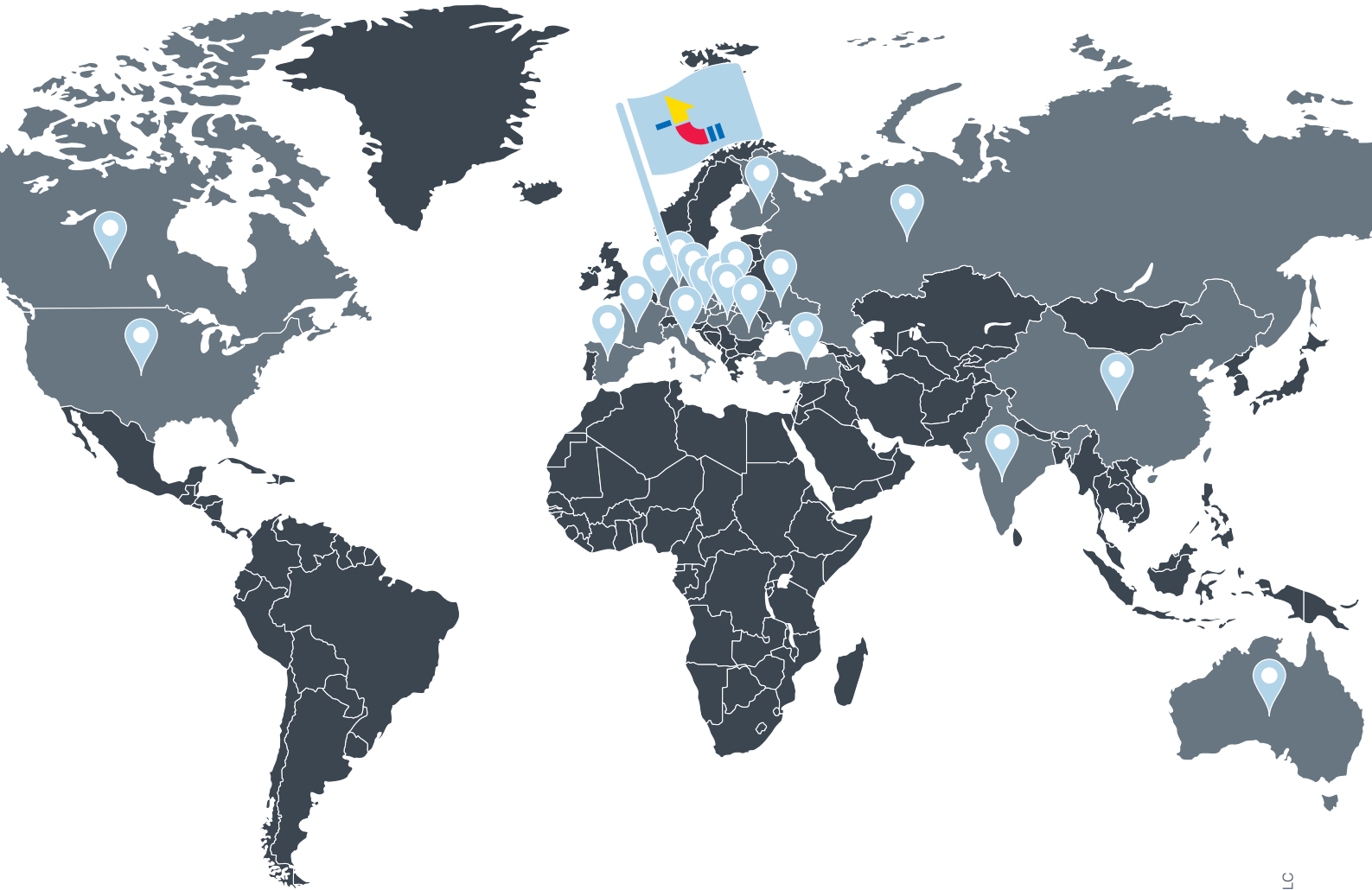
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