

Double diaphragm pump

1"

Max. 150 l/min



Aluminium
(AL)



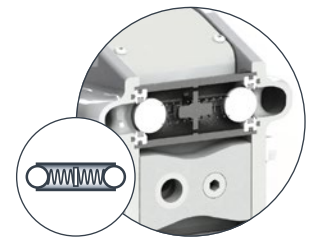
Ready for
Future



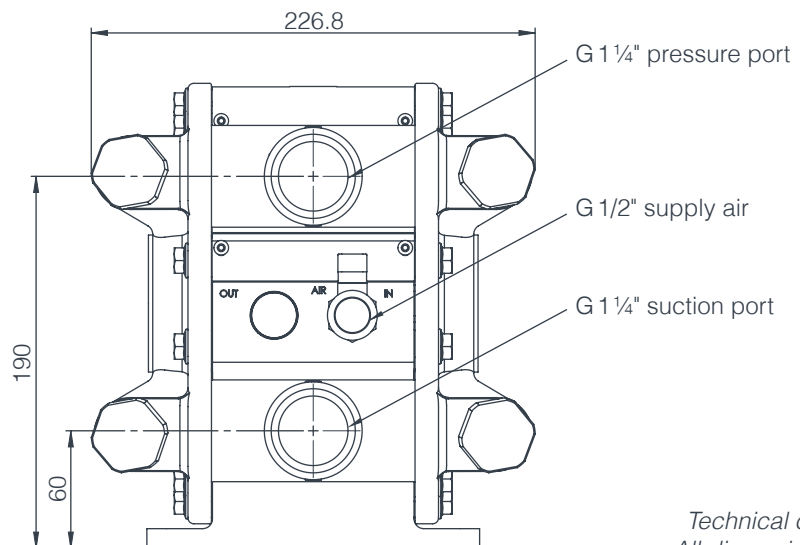
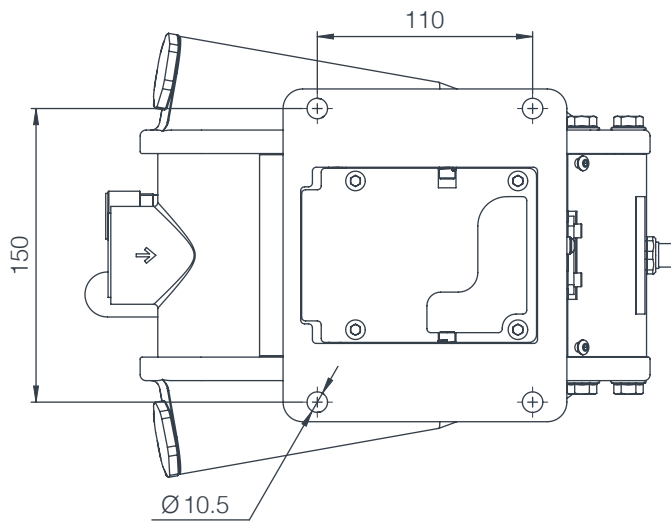
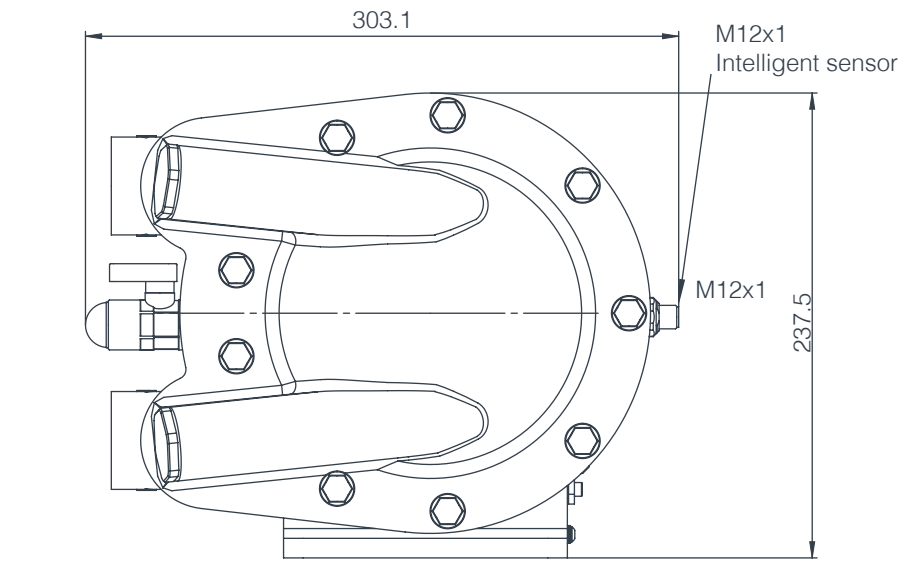
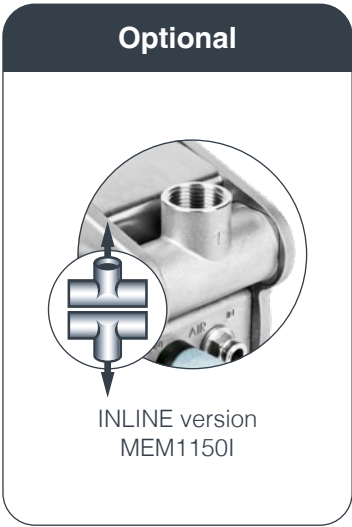
www.timmer-pumps.com/en/double_diaphragm_pumps_1to1/



Integrated intelligent sensor (iHZ)






Spring-loaded valve balls



Technical drawing:
All dimensions in mm

PREMIUM double diaphragm pumps PTI-MEM1150-AL

| Order no. | Type | Alignment of suction pipe | Alignment of pressure pipe | Material design | ATEX |
|-----------|---|---------------------------|----------------------------|-----------------|------|
| 53507706 | PTI-MEM1150-AL-TF-POM-VA-EP-AL-iHZ  | Forward | Forward | AL | ✓ |
| 53507836 | PTI-MEM1150I-AL-TF-POM-VA-EP-AL-iHZ   | Downward | Upward | AL | ✓ |

The tim[®]PRO series pumps have been successfully used for many years as process pumps and transfer pumps in the paint supply sector and in the printing machine industry. They are characterized in particular by their process reliability, easy maintenance, small and compact design, good

workmanship and long service life. 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 preven-

tive 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. 150 l/min (for water) With PTFE composite diaphragm |
| Drive | : Pneumatic |
| Fluid connections | : G 1¼" internal thread rotates 90 ° |
| Operating pressure | : 1 to 8 bar compressed air, unoled, filtered, or oiled |
| Compressed air connection | : G1/2" |
| Suction head, dry | : Max. 4 m |
| Weight | : Approx. 9 kg |
| Viscosity of pumped medium | : Up to 15,000 mPas |
| Medium temperature | : Max. +65 °C |
| Noise level | : 68 dB(A) |
| Strokes | : Max. 7 double strokes/s |
| Ex protection | : ATEX (see operating manual for additional information) |

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.

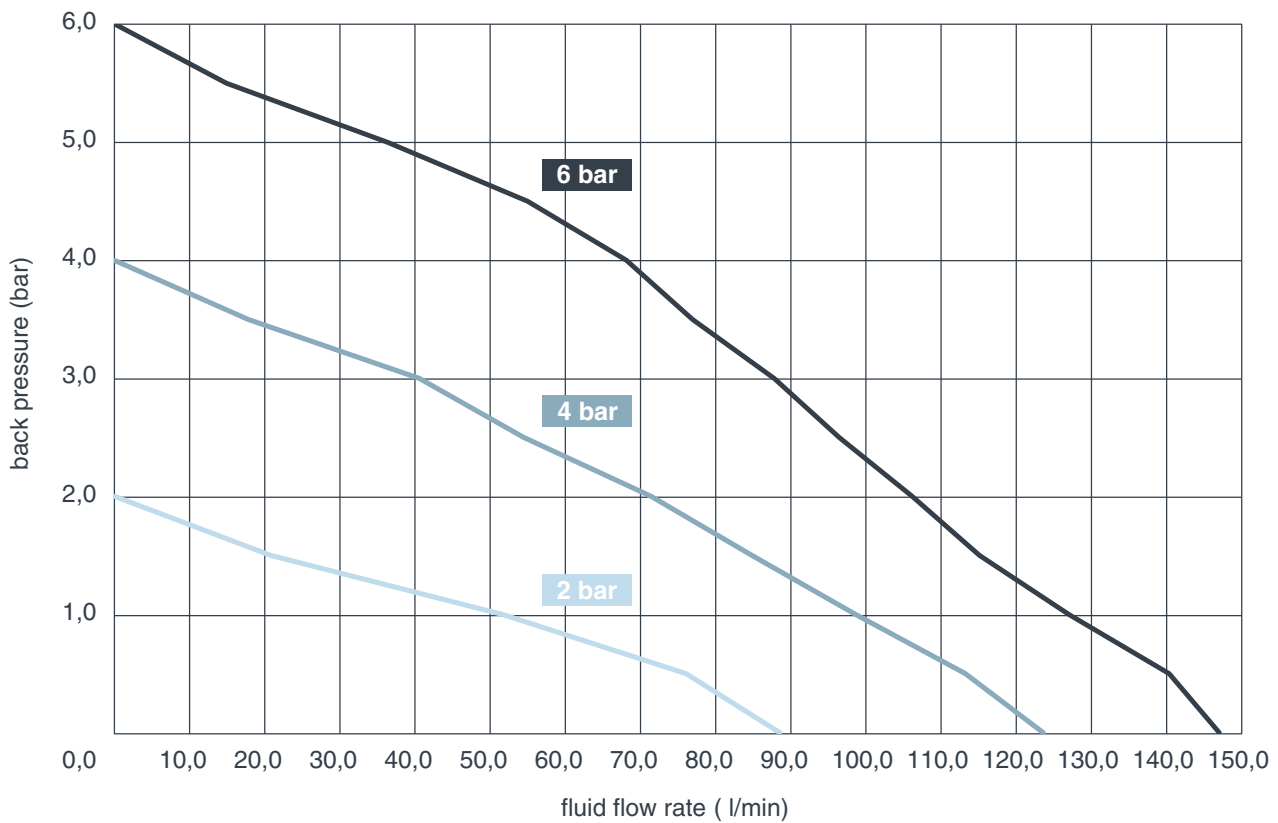
We would be happy to advise you on the suitability for your specific application.

Material

| | |
|------------------------|------------------------------------|
| Side section | : Aluminium |
| Middle housing section | : Aluminium |
| Fluid seals | : EPDM |
| Pneumatic seals | : NBR |
| Valve seats | : Stainless steel |
| Valve balls | : POM |
| Diaphragm | : PTFE / NBR as composite material |
| Control valves | : Ceramic valve plate |
| Screws | : Stainless steel |
| Cover plate | : Stainless steel |
| Valve pipes | : Aluminium |
| Springs | : Spring steel |



Fluid delivery volume



Added values



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.



Maximisation of service life

The ceramic slide valve that is used works virtually free of wear. The short-stroke principle prevents over-extension of the diaphragm and thus enables a long service life.



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.



Reduced compressed air costs

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



Easy conversion in existing systems

Small, compact design thanks to optimised valve technology



Minimal maintenance costs

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