

Powered Test Pump MPP 30-30

Fully automatic motor test pump for pressurising water pipes in accordance with W 400-2.



- Enables pressure build-up for all processes according to W 400-2
- Robust stainless steel frame, smart design in usual Esders quality
- Max. Flow rate 30 l/min at 30 bar outlet pressure
- Automatic follow-up pumping and pressure control via integrated control circuit
- Non-return valve for locking the pressure line and integrated overpressure safety valve

PICTURES OF APPLICATION



Powered Test Pump MPP 30-30

In the field of pipeline construction, pressure tests are a recognised method for checking the pipeline system. In the field of drinking water distribution, the technical rules of W 400-2 of the DVGW stipulate that each pipeline must be subjected to a pressure test after installation in order to „determine the proper execution of the installation of the pipes [...] as well as the tightness of the pipeline as a whole“. It is also specified that for larger pipeline volumes, motor pumps must be used to manage the pressure build-up of the pipeline within a required period of time.

Your special advantages

- Test pressure adjustable in 0.1 bar steps
- Frequency converter for adapted pressure build-up and pressure maintenance without pressure surges
- Storz coupling and quick couplings for water supply and water drainage
- Optionally with water shortage protection
- Optionally with flow measurement
- Optionally with disinfection routine

Combination with smart memo

Electronic pressure measuring case **smart memo** for pressure tests on gas and water pipelines is half the size of a DIN A4 sheet and offers enhanced functionality:

- dynamic pressure tests with optimised adjustment times
- intelligent, interlinkable temperature and pressure sensors
- enlarged display with touch function, signature on the display possible
- LTE data transmission and GPS position data storage
- Bluetooth integrated
- Operating time up to 200 hours



The two devices MPP and smart memo can be connected to each other via a wired interface so that they can communicate and exchange data. This enables an automated test procedure in accordance with W 400-2.

Remote control option

You start the test as usual on the smart memo. The smart memo then controls the MPP. With the contraction method, for example, the test pressure is automatically built up at the right time and the MPP is automatically stopped after the pressure holding phase.

Option Remote control MPP

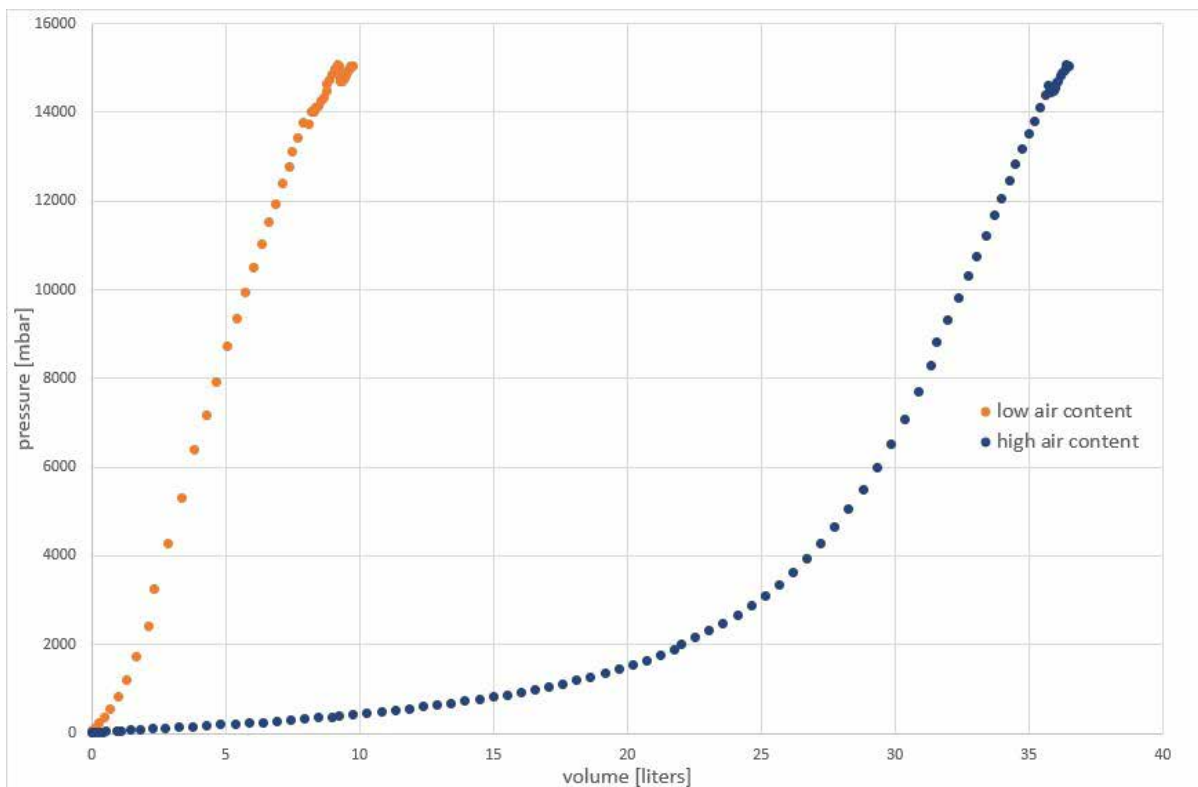
- Automated test procedure (via „remote control MPP“ option in smart memo)
Available for all water pressure tests DVGW W 400-2 and ÖVGW W 101
- Minimisation of errors during operation
- Test pressure regulation via pressure sensor of the smart memo, no subsequent correction of the test pressure necessary

Option air volume measurement

With the combination of smart memo and MPP 30-30, it is possible to determine the air volume **during the pressure build-up phase**. On the basis of physical equations and the measured values of the pressure sensor and the flow measurement, the air volume in the pipe can be calculated. With the air volume measurement, the devices can detect critical high air contents at an early stage and the user is spared unnecessary time and effort.

Your advantages

- Time saving: The smart memo shows you at an early stage (directly after pressure build-up), whether there is too much air in the pipeline.
- Reliable and conclusive result: The result of the pressure release test can also be faulty if, for example:
 - improper execution
 - air contents in the water during the pressure release test
 - Measurement errors due to water meters



TECHNICAL DATA

Delivery qty	30 l/min
Connection value	230 V – 50 Hz or 400 V - 50 Hz
Power consumption	2.200 VA
Required generator output	3.000 VA
Protection type	IP 54
Max. test pressure	30 bar
Test pressure	0 to 30 bar in measures of 0,1 bar
Control	Frequency converter for adapted pressure build-up and pressure holding without pressure surges, manual operation, pressure control operation
Operating temperature	+5 °C to +40 °C
Decompression	manual
Max. test length for optimal ventilated pipe PE 100, SDR 11, STP 21 bar (contraction procedure)	DA 110 mm ca. 3.100 m, DA 160 mm ca. 1.400 m,
	DA 225 mm ca. 700 m, DA 315 mm ca. 350 m
Weight	approx. 88 kg
Dimensions	approx. 115 x 62 x 88 cm

Technical specifications subject to change! Status 2022/01



Esders GmbH • Hammer-Tannen-Str. 26-30 • D-49740 Haseluenne
Phone +495961/9565-0 • info@esders.de • www.esders.de