

Pressure and leakage measuring instrument

testo 324 – Pressure and leakage measurement on gas and water pipes

All measurements for gas and water pipes in one instrument

High-resolution colour graphic display

Simple menu structure

Easy operation thanks to single-hose connection

Case with gas-feed appliance

Integrated pressure set-up up to 300 mbar

Highly accurate sensors

DVGW-compliant measurement results



hPa

mbar

bar

psi

l/h

°C

In the course of years, gas and water systems can become untight. For this reason, according to the legal requirements of DVGW, ÖVGW and UNI, all pipes and valves must be regularly checked for functional safety and tightness, also when new adjustments or significant changes are made. With the testo 324, not only can load and tightness tests be carried out exactly and easily, but also the important servability test. Only a test under real conditions shows whether all pipes and valves are working properly. The

testo 324 is a digital measuring instrument of the newest generation. A flow-through sensor, an absolute pressure sensor and two pressure sensors offer the highest level of accuracy. Developed specially for professional applications in everyday work, all relevant elements for the measurement are combined in one instrument case. Thanks to the fact that gas is fed into the system, the development of a dangerous gas-air mixture is avoided. DVGW-G-5952-tested.

Well equipped for all tests

You can carry out all tests on gas and water pipes with the allround measuring instrument testo 324:

- Tightness of gas pipes
(according to TRGI 2018 G-600 and DVGW G 5952)
 - Load and tightness test
 - Servicability test
- Tightness of LPG pipes (according to TRF 2021)
 - Load and tightness test
 - Repeated tests
- Gas pressure regulator for identifying errors in pressure reducer
- Drinking water pipes according to ZVSHK (EN 806-4)
- Waste water pipes according to DIN EN 1610



Automatic servicability test with gas-feed appliance with connection to the gas boiler



Load test



Automatic tightness test



Servicability test



Drinking and waste water test
(high-pressure probe up to 25 bar available)

Ordering data

Basic set testo 324: Ready to measure for all legally required tests

testo 324 leakage measuring instrument, mains unit, system case incl. gas-feed appliance, connection block* with connection hose, manual test pump for creating test pressure, adapter for measurement connection to gas boiler, high-pressure stage stop 3/4" and 1 1/4"

Part no. 0563 3240 70

Pro set testo 324: Professional measurement, documentation and testing

testo 324 leakage measuring instrument, mains unit for testo 324 and basic printer, system case incl. gas-feed appliance, connection block* with connection hose, manual test pump for creating test pressure, adapter for measurement connection to gas boiler, high-pressure stage stops 3/4" & 1 1/4", high-pressure stage stops 3/8" und 3/4", high-pressure stage stops 1/2" and 1", conical test stop 1/2", conical test stop 3/4", gas leak detector testo 316-2, infrared basic printer (incl. batteries), spare printer paper

Part no. 0563 3240 71

* Instrument, pump and hose connection incl. overpressure valve and stopcock

Ordering data / Accessories

Measuring instrument and accessories	Part no.	
testo 324 pressure and leakage measuring instrument	0632 3240	
Option Bluetooth® wireless transmission		
Bluetooth® retrofit		
Mains unit for testo 324 (also suitable for infrared basic printer)	0554 1096	
PC software easyHeat	0554 3332	
USB connection cable, instrument-PC	0449 0047	
Printer and Accessories	Part no.	
Basic infrared printer (incl. batteries)	0554 0549	
Testo Bluetooth®/IRDA printer incl. 1 roll of printer paper, rechargeable battery and mains unit	0554 0620	
Spare thermal paper for printer, permanent ink	0554 0568	
Cases	Part no.	
System case incl. gas-feed appliance, connection block* & connection hose; 476 x 191 x 363 mm (WxHxD)	0516 3240	
Instrument case (height: 130 mm) for instrument, probes and accessories	0516 3300	
Stops, caps, hoses etc.	Part no.	
Conical test stop 1/2" for connecting test set to the gas pipe 19–32 mm	0554 3151	
Conical test stop 3/4" for connecting the test set to the gas pipe 24–44 mm	0554 3155	
High-pressure stage stop 3/8 and 3/4; to connect test set to gas pipe	0554 3163	
High-pressure stage stop 1/2 and 1; to connect test set to gas pipe	0554 3164	
High-pressure stage stop 3/4" and 1 1/4"	0554 0533	
Single-pipe counter cap, connects test fittings to pipe		
Y-distributor with hose	0554 0532	
High-pressure connection	0554 3139	
Probes	Part no.	
Very fast reaction surface probe with sprung thermocouple band, measuring range short-term up to +500 °C	0604 0194	
High-pressure probe up to 25 bar	0638 1748	
Connection cable, length 1.5 m, for probes with plug-in heads	0430 0143	
Other accessories	Part no.	
Test pump for creating test pressure	0554 3157	
ISO calibration certificate/flow in gases	0520 0084	
testo 316-2 electronic gas leak detector with flexible measurement probe, mains charger and earphones	0632 3162	

* Instrument, pump and hose connection incl. overpressure valve and stopcock

Technical data

Protection class	IP40 according to EN 60526
Operating temperature	+5 to +40 °C
Storage temperature	-20 to +50 °C
Additional probe sockets	2 Hirschmann sockets for connecting pressure and temperature probes
Gas connections	2 pressure connections DN 5
Battery life	approx. 5 h measurement time, mains operation possible
Display	Colour display, presentation of graphic curves
Data transfer	USB, IRDA, Bluetooth® (option)
Compatible printers	0554 0549, 0554 0547, 0554 0544, 0554 0553 (with Bluetooth® option)
DVGW permit according to G 5952	Instrument class L up to volume = 200 litres
Leakage measurement	Measuring range: 0 to 10 l/h Accuracy: ± 0.2 l/h or $\pm 5\%$ of m.v. Resolution: 0.1 l/h
Pressure measurement	Measuring range: 0 to 1000 hPa Accuracy: ± 0.5 hPa or $\pm 3\%$ of m.v. Hysteresis: ≤ 0.2 mbar (0 to 300 mbar)
Pressure measurement with a high pressure probe (optional)	Measuring range: 0 to 25 bar Accuracy: $\pm 0.6\%$ of fsv (0 to 10 bar) / $\pm 0.6\%$ of fsv (>10 to 25 bar)
Absolute pressure measurement	Measuring range: 600 to 1150 hPa Accuracy: ± 3 hPa
Overload	to 1200 hPa
Temperature measurement TC Type K (instrument only)	Measuring range: -40 to +600 °C Accuracy: ± 0.5 °C or $\pm 0.5\%$
Temperature measurement TC Type 5k (instrument only)	Measuring range: -20 to +100 °C
Weight	Basic set (0563 3240 70): 7.0 kg Professional set (0563 3240 71): 8.5 kg
Pipe volume calculation	Measuring range: max. 1200 l Accuracy: ± 0.2 l or 5 % of m.v. (1 to 200 l)