

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









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 servicability 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 2012)
 - 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



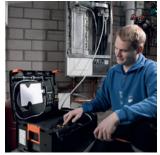
Automatic servicability test with gas-feed appliance with connection to the gas boiler



Load test



Automatic tightness test



Servicability test



Drinking and waste water test with high-pressure probe up to 25 bar

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

 $^{^{\}star}$ Instrument, pump and hose connection incl. overpressure valve and stopcock



Ordering data / Accessories

Option Bluetooth® wireless transmission Bluetooth® retrofit Wains unit for testo 324 (also suitable for infrared basic printer) OC software easyNeat USB connection cable, instrument-PC Printer and Accessories Part no. Basic infrared printer (incl. battleries) Printer and Accessories Part no. Basic infrared printer (incl. battleries) Fiesto Bluetooth®/IRDA printer incl. 1 roll of printer paper, rechargeable battery and mains unit O554 0568 Dasace Part no. Dasace Part no. Dasaces Part no. Dasaces Part no. Dasaces Part no. Dasaces Part no. Dasaces (height: 130 mm) for instrument, probes and accessories Dasaces Part no. Conical test stop 1/2" for connecting test set to the gas pipe 19–32 mm O554 3155 Conical test stop 3/4" for connecting test set to the gas pipe 24–44 mm O554 3155 High-pressure stage stop 3/4 and 1 1/4" Dasaces (height: 130 mm) for instrument gas pipe 24–44 mm O554 3163 High-pressure stage stop 3/4 and 1 1/4" Dasaces (height: pressure stage stop 3/4 and 1 1/4" Dasaces (high-pressure stage stop 3/4 and 1 1/4" Dasaces (high-pressure stage stop 3/4 and 1 1/4" Dasaces (high-pressure stage stop 3/4" and 1 1/4" Das	Measuring instrument and accessories	Part no.
Super thermal paper for printer, permanent ink Cases Part no. System case incl. gas-feed appliance, connection block* & connection hose; 476 x 191 x 363 mm (WxHxD) Ostional test stop 1/2* for connecting test set to the gas pipe 19-32 mm Conical test stop 1/2* for connecting test set to the gas pipe 24-44 mm Osta 3163 Chiefly-pressure stage stop 3/8 and 3/4; to connect test set to gas pipe Osta 4 0543 Osta 4 0543 Osta 4 0543 Osta 4 0543 Osta 5 0sta 5 0sta 11/4* Osta 6 0sta 11/4* Osta 11/4	testo 324 pressure and leakage measuring instrument	0632 3240
Mains unit for testo 324 (also suitable for infrared basic printer) PC software easyHeat O554 3332 JSB connection cable, instrument-PC Printer and Accessories Part no. Basic infrared printer (incl. battieries) Cesto Bluetooth*/IRDA printer incl. 1 roll of printer paper, rechargeable battery and mains unit O554 0549 Fresto Bluetooth*/IRDA printer incl. 1 roll of printer paper, rechargeable battery and mains unit O554 0620 Spare thermal paper for printer, permanent ink O554 0568 Part no. Cases Part no. System case incl. gas-feed appliance, connection block* & connection hose; 476 x 191 x 363 mm (WxHxD) O516 3240 Instrument case (height: 130 mm) for instrument, probes and accessories Stops, caps, hoses etc. Part no. Conical test stop 1/2" for connecting test set to the gas pipe 19–32 mm O554 3151 Conical test stop 3/4" for connecting the test set to the gas pipe 24–44 mm O554 3155 High-pressure stage stop 3/8 and 3/4; to connect test set to gas pipe O554 3163 High-pressure stage stop 3/8 and 3/4; to connect test set to gas pipe O554 3164 High-pressure stage stop 3/4" and 1 1/4" O554 0533 Single-pipe counter cap, connects test fittings to pipe C-distributor with hose O554 0532 High-pressure connection O554 3139 Probes Part no. Very fast reaction surface probe with sprung thermocouple band, measuring range short-term up to +500 °C O604 0194 High-pressure probe up to 25 bar O638 1748 Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. O554 3157 SO calibration certificate/flow in gases	Option Bluetooth® wireless transmission	
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Printer and Accessories Basic infrared printer (incl. battleries) 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 0516 3300 Stops, caps, hoses etc. Part no. Conical test stop 1/2" for connecting test set to the gas pipe 19–32 mm 054 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 3163 Single-pipe counter cap, connects test fittings to pipe 7-distributor with hose 0554 0532 High-pressure connection 0564 3139 Probes Part no. Probes Part no. Official test set 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 Other accessories Part no. Other accessories Part no. Oscalibration certificate/flow in gases	PC software easyHeat	0554 3332
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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 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 3163 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 0533 Single-pipe counter cap, connects test fittings to pipe Y-distributor with hose 0554 0532 High-pressure connection 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 Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Other accessories Oscalibration certificate/flow in gases	Printer and Accessories	Part no.
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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 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 Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Part no. Confidence of the sprung test pressure 0554 3157 So calibration certificate/flow in gases	Testo Bluetooth®/IRDA printer incl. 1 roll of printer paper, rechargeable battery and mains unit	0554 0620
System case incl. gas-feed appliance, connection block* & connection hose; 476 x 191 x 363 mm (WxHxD) Instrument case (height: 130 mm) for instrument, probes and accessories Stops, caps, hoses etc. Part no. Conical test stop 1/2" for connecting test set to the gas pipe 19–32 mm Conical test stop 3/4" for connecting test set to the gas pipe 24-44 mm O554 3155 High-pressure stage stop 3/8 and 3/4; to connect test set to gas pipe O554 3163 High-pressure stage stop 1/2 and 1; to connect test set to gas pipe O554 3164 High-pressure stage stop 3/4" and 1 1/4" O554 0533 Single-pipe counter cap, connects test fittings to pipe Y-distributor with hose O554 0532 High-pressure connection O554 3139 Probes Part no. Wery fast reaction surface probe with sprung thermocouple band, measuring range short-term up to +500 °C O604 0194 High-pressure probe up to 25 bar Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Cest pump for creating test pressure O554 3157 SO calibration certificate/flow in gases	Spare thermal paper for printer, permanent ink	0554 0568
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Conical test stop 1/2" for connecting test set to the gas pipe 19–32 mm 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 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 Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Fest pump for creating test pressure 0554 3157 SO calibration certificate/flow in gases	Instrument case (height: 130 mm) for instrument, probes and accessories	0516 3300
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 Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Other accessories Part no. Test pump for creating test pressure 0554 3157 SO calibration certificate/flow in gases	Stops, caps, hoses etc.	Part no.
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High-pressure stage stop 1/2 and 1; to connect test set to gas pipe O554 3164 High-pressure stage stop 3/4" and 1 1/4" O554 0533 Single-pipe counter cap, connects test fittings to pipe Y-distributor with hose O554 0532 High-pressure connection O554 3139 Probes Part no. Very fast reaction surface probe with sprung thermocouple band, measuring range short-term up to +500 °C O638 1748 Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Test pump for creating test pressure O554 3157 SO calibration certificate/flow in gases O520 0084	Conical test stop 3/4" for connecting the test set to the gas pipe 24-44 mm	0554 3155
High-pressure stage stop 3/4" and 1 1/4" Single-pipe counter cap, connects test fittings to pipe Y-distributor with hose High-pressure connection O554 0532 Probes Part no. Very fast reaction surface probe with sprung thermocouple band, measuring range short-term up to +500 °C O604 0194 High-pressure probe up to 25 bar Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Test pump for creating test pressure O554 3157 SO calibration certificate/flow in gases	High-pressure stage stop 3/8 and 3/4; to connect test set to gas pipe	0554 3163
Single-pipe counter cap, connects test fittings to pipe Y-distributor with hose High-pressure connection Probes Part no. Wery 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 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 SO calibration certificate/flow in gases	High-pressure stage stop 1/2 and 1; to connect test set to gas pipe	0554 3164
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 SO calibration certificate/flow in gases 0520 0084	High-pressure stage stop 3/4" and 1 1/4"	0554 0533
Probes Part no. Wery 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 SO calibration certificate/flow in gases 0520 0084	Single-pipe counter cap, connects test fittings to pipe	
Probes 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 SO calibration certificate/flow in gases 0520 0084	Y-distributor with hose	0554 0532
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 SO calibration certificate/flow in gases 0520 0084	High-pressure connection	0554 3139
High-pressure probe up to 25 bar Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Test pump for creating test pressure SO calibration certificate/flow in gases 0638 1748 0430 0143 Part no. 0554 3157 0520 0084	Probes	Part no.
Connection cable, length 1.5 m, for probes with plug-in heads Other accessories Part no. Test pump for creating test pressure SO calibration certificate/flow in gases 0520 0084	Very fast reaction surface probe with sprung thermocouple band, measuring range short-term up to +500 °C	0604 0194
Other accessories Part no. Test pump for creating test pressure 0554 3157 SO calibration certificate/flow in gases 0520 0084	High-pressure probe up to 25 bar	0638 1748
Test pump for creating test pressure 0554 3157 SO calibration certificate/flow in gases 0520 0084	Connection cable, length 1.5 m, for probes with plug-in heads	0430 0143
SO calibration certificate/flow in gases 0520 0084	Other accessories	Part no.
	Test pump for creating test pressure	0554 3157
testo 316-2 electronic gas leak detector with flexible measurement probe, mains charger and earphones 0632 3162	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

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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 ±5% of m.v. Resolution: 0.1 l/h
Pressure measurement	Measuring range: 0 to 1000 hPa Accuracy: ±0.5 hPa or ±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: ± 0.6 % of fsv (0 to 10 bar) / ± 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 ±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)
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