Competence creates Confidence.

● Model no. 1785
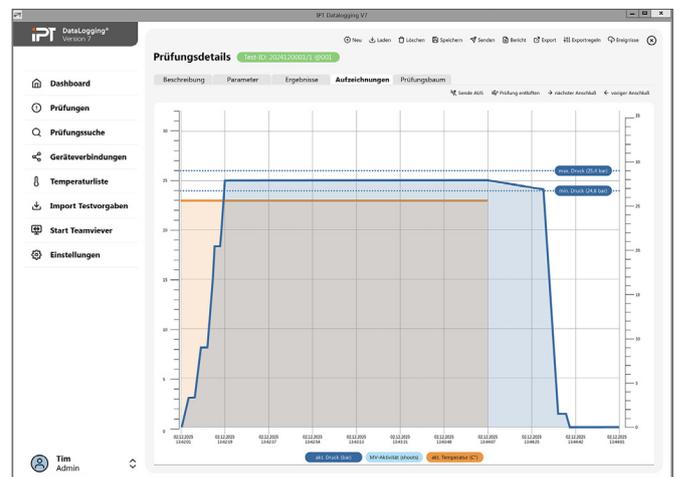
AIRLESS BASIC LINE

Creep and burst tests

The purpose of this tester is to apply and maintain the correct hydrostatic pressure for internal pressure creep tests. Bursting pressure tests can also be optionally performed.

The internal pressure creep test is a test procedure for determining the strength of thermoplastic pipes when exposed to constant internal water pressure at a constant temperature. The samples are subjected to a defined and constant hydrostatic internal pressure for a specified period or until they fail.

The load on the specimen is defined by the stress (by means of internal pressure) and the temperature.

The Airless BasicLine with 5 stations is suitable for beginners and customers with low testing volumes.

The integrated high-pressure pump, stainless steel pressure accumulator and a pressure control module, which can be used to perform up to five tests in parallel, are standard features of the device.

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Professionally pressure tested

● A maximum of one airless module can be installed in the 1785 installation frame. A maximum of up to 5 test stations for time-dependent internal pressure tests or 1 test station for burst pressure tests can be installed.

● In addition to the module, the frame contains the pressurised water supply for generating the pre-pressure, the power supply and a status display.

Pressurised water supply

The pipe tester is supplied with the required high-pressure water via the integrated pressurised water supply (3 litres/min.).

The pressurised water supply consists of:

- Water inlet with water filter and pre-pressure monitoring

- Pressure vessel (buffer tank): Prevents pressure peaks and temporarily increases the water supply capacity.

- Controller: For controlling the high-pressure pump and monitoring the system pressure.

Module and controller

For each module, a controller (microprocessor control) individually controls and regulates the pressure of the individual stations. For pressure control, each station has two solenoid valves and a pressure transducer. The solenoid valve MV1 regulates the pressure build-up. The solenoid valve MV2 is used for pressure reduction and pressure relief at the end of the test.

Standard features

- Data input and evaluation via user interface (PC)

- Integrated, frequency-controlled high-pressure pump. (3 litres/min.)

- Modules in brass design

- SensLine connection: High delivery rate and thus improved pressure control, more accurate pressure measurement by eliminating pipe resistance

- CE conformity

- Choice of a pressure module with 5 stations or a burst module with one station

- Stainless steel pressure accumulator

- maximum test pressure 100 bar

- Accuracy class of pressure transducer: 0.5% of the final value of the pressure transmitter

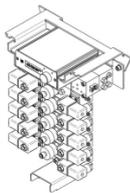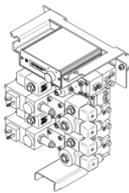## Options

- Data input, evaluation and archiving of test data via IPTdatalogging software (PC)

Version
AIRLESS BASIC LINE

		V1774-0003
Pressure range up to	bar	100
Pressure range up to	l/min	3
Max. number of modules in the rack		1
Width	mm	580
Depth	mm	595
Height	mm	985
Voltage specifications		230/400 V, 50/60 Hz, special voltage on request

Modules

	Creep internal pressure test	Burst test

AIRLESS BASIC LINE	V1785-0001	V1785-0002
Pressure range up to bar	100	100
Number of stations	5	1
Expansion station	-	-
Pressure control via microprocessor controller	√	√
Controlled pressure increase (linear)	-	√
Controlled pressure stages (linear)	-	√
For increased litre output	-	-
Pressure transducer 10 bar	√	-
Pressure transducer 16 bar	√	-
Pressure transducer 25 bar	√	√
Pressure transducer 40 bar	√	√
Pressure transducer 60 bar	√	√
Pressure transducer 100 bar	√	√
Pressure transducer 160 bar	-	-
Pressure transducer 250 bar	-	-

Accessories AIRLESS BASIC LINE

Product	Description	Model
	Test tank	1751–1760 1830
	Test oven	1662 1674 1776
	Burst chamber	1639 1618
	Pipe saw	1625
	End closures	1732 1810 1685
	Test data management software IPT DataLogging®	1780