

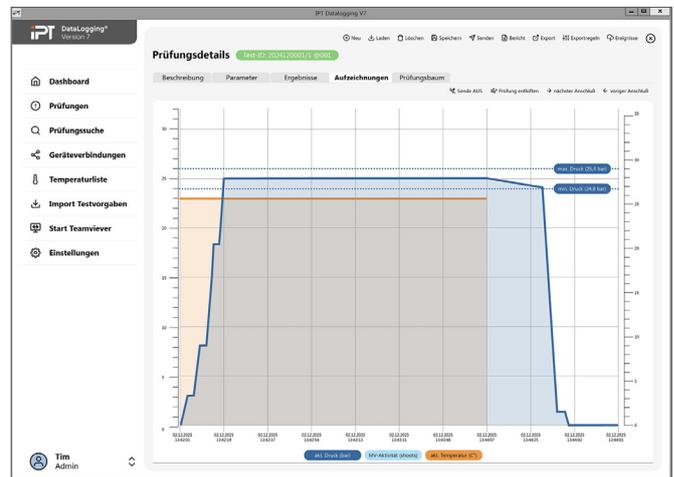
Competence creates Confidence.



Model no. 1774

AIRLESS BLUE LINE

ISO 1167
ASTM D 1598
ASTM D 1599



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 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.

For average testing requirements, the Airless Blue Line guarantees maximum control accuracy and consistency in pressure regulation. The compact and modular design allows for up to 25 independent pressure stations on just 0.6 m².

The test device is supplied with the required high-pressure water via the integrated pressurised water supply.

Professionally pressure-tested

- A maximum of five Airless modules can be installed in the 1774 installation frame. A maximum of 25 test stations for time-dependent pressure tests or 5 test stations for burst pressure tests can be installed.
- In addition to the modules, the frame contains the pressurised water supply for generating the pre-pressure, the power supply and a status display.

Pressurised water supply

The pipe testing device is supplied with the required high-pressure water via the integrated pressurised water supply (6 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 regulation, 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)
- Flexible installation of creep and burst modules possible
- Integrated, frequency-controlled high-pressure pump. (6 litres/min.)
- Stainless steel pressure accumulator
- Modules in brass design
- SensLine connection: High delivery rate and thus improved pressure control, more accurate pressure measurement by eliminating pipe resistance
- Accuracy class of pressure transmitter: 0.25% of the final value of the pressure transducer
- CE conformity

Options

- Data input, evaluation and archiving of test data via IPTData logging software (PC)
- Pressure range up to 100 bar or 200 bar
- Splitting of the inlet pressure for optimum supply to the high and low pressure modules

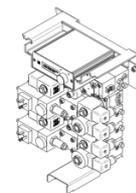
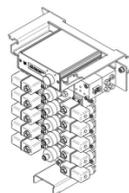
Design AIRLESS BLUE LINE

		V1774-0003	V1774-0004
Pressure range up to	bar	100	200
Pump delivery rate	l/min	6	6
For connection to an external pressurised water supply 1721		-	-
Max. number of modules in the rack		5	5
Max. number of stations in the rack		25	25
Width	mm	720	720
Depth	mm	770	1.130
Height	mm	1.600	1.600
Voltage	230/400 V, 50/60 Hz, special voltage on request		

Creep internal pressure test

Burst test

Modules



AIRLESS BLUE LINE

		V1774-0010	V1774-0011	V1722-0041	V1722-0042
Pressure range up to	bar	100	200	100	200
Number of stations		5	5	1	1
Expansion station		-	-	+	+
Pressure control via microprocessor controller		√	√	√	√
Controlled pressure increase (linear)		-	-	√	√
Controlled pressure stages (linear)		-	-	√	√
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 BLUE 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