Competence creates Confidence.

Model no. 1830 – 1840

TEST TANKS FOR PIPE TESTING

ISO 1167
ASTM D 1598
ASTM D 1599

The creep internal pressure test is a test method for determining the strength of thermoplastic pipes. The test specimens are subjected to a constant hydrostatic internal pressure at a constant ambient temperature either for a specified period of time or until failure. The duration of the stress depends on the stress generated by the internal pressure and the temperature.

High temperature stability

IPT test tanks guarantee high operational safety

- IPT test tanks are specially designed for testing thermoplastic pipes and fittings. The high reliability, the durability of the materials used and the spatially and temporally constant temperatures in the test tank enable particularly reliable test conditions. The efficient use of energy with low maintenance and repair costs ensures economical long-term operation. The tank size and connection options can be varied in many ways, allowing flexible adaptation to different operating conditions.
- A special circulation system, in conjunction with a high-precision temperature controller, ensures homogeneous temperature distribution throughout the entire tank. Spatial and temporal temperature consistency with a tolerance of ± 0.3°C. All test specimens are tested under the same conditions and with extremely low energy consumption – a matter of course for IPT.
- IPT test tanks are equipped with optimum temperature protection and all electrical safety devices in accordance with VDE regulations.
- The dimensions of your test specimens determine the water depth and the internal base area of your test tank. The standard models currently available, sorted by internal dimensions, can be found in the table opposite.
- Even the tall tanks can be easily loaded thanks to recessed installation or steps and platforms.
- The variety of lid designs makes it possible to set up the tanks even in rooms with limited headroom.
- With sliding mounting rails and a wide range of connection distributor variants, which can also be retrofitted, you have flexibility when it comes to equipping the tanks with your test specimens.

Standard features

- Test tank made of high-quality stainless steel 1.4301 / AISI 304 / UNS S 30400
- Motorised lid operation
- Constant test temperatures thanks to highly efficient water circulation and precise temperature control in the inner container
- Double insulation of the base chamber and insulated lid for minimal energy loss
- Connection option for coolers and plate heat exchangers for efficient and environmentally friendly water cooling for low test temperatures
- Integrated monitoring of fill level, temperature and circulation
- Overtemperature shutdown
- Interface to IPT DataLogging®
- CE conformity

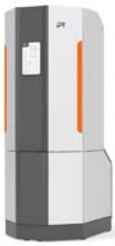
Options

- Test tank available in 1.4404 / AISI 316L / UNS S 31603
- All parts in contact with water are rustproof
- All parts in contact with water are CU ion-free

DESIGN (1) **TEST TANKS FOR PIPE TESTING**		V1830-0351	V1830-0352	V1830-0311	V1830-0312	V1830-0313	V1831-0361	V1831-0362	V1831-0312
Water depth	mm	800	800	800	800	800	1.000	1.000	1.000
Width (inside)	mm	500	500	1.000	1.000	1.000	700	700	1.000
Length (inside)	mm	1.100	1.600	1.000	1.500	2.000	1.100	1.600	1.500
Width (outside)	mm	1.000	1.000	1.400	1.400	1.400	1.200	1.200	1.400
Length (outside)	mm	1.460	1.960	1.610	2.200	2.700	1.460	1.960	2.200
Height when closed (external)	mm	1.250	1.250	1.250	1.250	1.250	1.450	1.450	1.450
Height open (external)	mm	1.850	1.850	2.500	2.100	2.340	2.280	2.280	2.300
Number of distribution points		4+1+1	6+1+1	3+3+4	5+5+4	7+7+4	4+2+2	6+2+2	5+5+4
Number of hanging rails (included)		2	2	2	3	3	2	3	3
Heating capacity	kW	6	6	9	18	18	6	6	18
Water temperature	°C	Min. room temperature +10 / max. 95							
Water temperature (with fresh water cooling)	°C	Min. 20 or fresh water temperature / max. 95							
Water temperature (with cooler)	°C	Min. 20 / Max. 95							
Water temperature adjustable in increments of	°C	0,1							
Temperature stability in terms of space and time	°C	±0,3							
Temperature control with control accuracy	°C	±0,025							
voltage specifications		230/400 V, 50/60 Hz special voltage upon request							

Design (2) **TEST TANKS FOR PIPE TESTING**		V1832-0312	V1832-0323	V1833-0313	V1834-0323	V1834-0337	V1836-0337
Water depth	mm	1.300	1.300	1.600	1.800	1.800	2.200
Width (inside)	mm	1.000	1.500	1.000	1.500	2.000	2.000
Length (inside)	mm	1.500	2.000	2.000	2.000	4.000	4.000
Width (outside)	mm	1.360	1.860	1.460	1.960	2.460	2.540
Length (outside)	mm	2.240	2.690	2.740	2.740	5.050	5.200
Height when closed (outside)	mm	1.750	1.750	2.050	2.250	2.250	2.650
Height open (external)	mm	2.600	2.840	3.145	3.340	3.340	3.700
Number of distribution points		5+5+4	7+7+5	7+7+4	7+7+5	15+15	15+15
Number of hanging rails (included)		3	3	3	3	5	5
Heating capacity	kW	18	18	18	18	54	54
Water temperature	°C	Min. room temperature +10 / max. 95					
Water temperature (with fresh water cooling)	°C	Min. 20 or fresh water temperature / max. 95					
Water temperature (with cooler)	°C	Min. 20 / Max. 95					
Water temperature adjustable in increments of	°C	0,1					
Temperature stability in terms of space and time	°C	±0,3					
Temperature control with control accuracy	°C	±0,025					
Voltage specifications		230/400 V, 50/60 Hz special voltage upon request					

Accessories TEST TANKS FOR PIPE TESTING

Product	Description	Model
	Pressure tester	1720 1774 1785 1814
	Chiller / heat exchanger	1765
	End closures	1732 1784 1685 1810
	Hanging hook for test specimen	1079
	Connecting hoses	1074 1577
	Test data management software IPTDataLogging®	1780