

KASON HPT-10M Plastic Pipe Hydrostatic Pressure and Burst Tester

(The pressure mainframe and constant temperature water tank are integrated into one machine)



Application:

KASON-XG10MT Series is mainly used to determine the resistance of thermoplastics pipes and short-time hydraulic burst to constant internal water pressure at constant temperature. It is applicable to thermoplastic pipes intended for the conveyance of fluids.

It can perform both long-term hydrostatic testing and burst testing of pipes (each channel can perform both burst and pressure testing), as well as thermal stability testing of thermoplastic pipes under hydrostatic conditions. The pressure unit and constant temperature water tank are integrated into one unit, and each channel features multi-stage accumulator pressure control, ensuring fast response and stable pressure control, extending the service life of the solenoid valve.

Standard:

It conforms to ASTM D1598-2004, ASTM D1599 and ISO 1167-2006.

ASTM D1598-2004 Standard Test Method for Time-to-Failure of Plastic Pipe under Constant

Technical Specifications:

Model	KASON-XGM10T
Pressure range	0.4~10MPa
Test station	3 stations or even more
Control mode	Computer
Resolution of pressure testing	0.001MPa
Accuracy	Better than $\pm 1\%$
Testing pipe	$\phi 20\text{mm}-\phi 630\text{mm}$
Constant temp. range	room temperature~95℃

Temp. Accuracy	±0.1℃
Time accuracy	≤±0.1%
Power supply	3 phase, 380v±10%, 50Hz

Features:

Control System: Two-Level Monitoring, Multi-Purpose, Premium Quality, Two-Level Computer, Versatile Functions, User-Friendly

➤ Two-Level Monitoring:

The first level provides 1-hour, detailed monitoring; the second level provides comprehensive, full-process monitoring.

➤ Multi-Purpose:

The system can perform both long-term hydrostatic testing and burst testing (each channel can perform both burst and pressure testing). It can also be used for thermal stability testing of thermoplastic pipes under hydrostatic conditions. Each channel features multi-stage accumulator pressure control, ensuring fast response and stable pressure control, extending the life of the solenoid valve.

➤ Premium Quality:

The entire system utilizes EU CE-certified electronic components, German solenoid valves, and GEMS sensors. It offers exceptional long-term reliability and stability, high efficiency for multi-port testing, and low operating costs for excellent economic benefits.

➤ Wide Pressure Control Range:

Each station's pressure control range is adjustable from 0.4 to 10 MPa.

➤ High Reliability:

All electrical, mechanical, and software components are equipped with safety features. Such features include protection against electrical leakage, short circuits, static electricity, interference, seepage, power outages, and misoperation.

➤ Integrated modular assembly

Equipped with a microcontroller and solenoid valve control unit, they prevent interference. A rupture in one test line does not affect the normal testing of other lines.

➤ Comprehensive functions

Features rupture detection, real-time monitoring, power-off pressure maintenance, power-off protection, and automatic power-on recovery. Test results can be printed and stored. The main control interface is available in Chinese and English, providing multi-language operation.

➤ User-friendly design

An automatic or manual time increment option is available to compensate for ineffective time during the test. The test pressure can also be adjusted mid-test to meet specific pipe testing requirements.

➤ The product consists of two components:

The pressure main unit and the constant temperature water tank, all integrated with the fixture. The specifications and models of each component are user-selectable, and custom designs are also available.

Pressure Source:

High pressure, large flow, automatic water storage, stable energy storage

The main pressure source uses an imported pump head, a self-contained unit that can be used for multiple test stations.

The pressure control instrument features a reliable mechanical gauge for fast response and stable pressure control.

High main pressure and large flow;

Wide pressure range, adjustable energy storage pressure from 4 to 12 MPa;

Low noise, safe and stable;

Integrated leakage protection;

Flexible connection for low noise.

Configuration:

Name	Origin and Application	Quantity
Solenoid valve	Imported	Number of workstations*2
Pressure transmitter	GERFAN (Gefran, Italy)	Number of workstations*1
Electric contact pressure gauge	Domestic	1
High-pressure plunger pump	Imported	1
Single-station accumulator	Domestic	Number of workstations*1
Pressure station accumulator	Domestic	1
Short high-pressure hose	(Heat resistance 100°C, pressure resistance 63MPa),	Number of workstations*1
Computer (PC) and printer	LEVONO	1

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