



## HYDROSTATIC PRESSURE TESTER HPT-110 and HPT-120

### STANDARDS

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ISO1167, ASTM D1598, ASTM D1599

RoboTest HPT series is 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 is suited to various pipe specimens.





## PRESSURE CONTROLLER

### FEATURES

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- ❖ Functions of specimen pre-treatment, real time monitoring, test data storage, data power-off protection (memory) and recovering when powered on etc
- ❖ It is intelligent to distinguish the size and material of specimen, then provide perfect pressure rising solution and algorithm
- ❖ For the pipes with big rate of expansion has the properties of rapid pressure rising rate and steady at constant temperature
- ❖ Self-developed solenoid valve greatly raises its working life, further maintenance is not needed
- ❖ Friendly display interface provides multi languages to meet the requirements of customers all the world
- ❖ Protective measures are from electric part, mechanical part as well as software
- ❖ Testing data memory time for pressure control unit: 7 days (offline).



## PARAMETERS

Model	HPT-110 Series	HPT-120 Series
<b>Parameters</b>		
<b>Diameter Range</b>	Φ2mm~Φ1200mm	Φ2mm~Φ1200mm
<b>Test stations</b>	1~10, or others on request	1~10, or others on request
<b>Control mode</b>	LED + PC	Touch screen
<b>Printing mode</b>	print through PC	Saved on flash disk, print through PC
<b>Pressure range</b>	2bar to 100bar (160,200as option)	2bar to 100bar (160,200as option)
<b>Display resolution</b>	0.01bar (0.001MPa or 1PSI)	0.01bar (0.001MPa or 1PSI)
<b>Indication error</b>	±1%	±1%
<b>Timing range</b>	0~10000h	0~10000h
<b>Time resolution</b>	1s	1s
<b>Timing mode</b>	Counter-up, counter-down	Counter-up, counter-down

## PRESSURE SUPPLY UNIT

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- ❖ One independent pressure supply unit can be connected to several pressure control units
- ❖ Property of high pressure and capacity
- ❖ Wide range of pressure can be set at any level(0-100bar)
- ❖ Automatic water compensation to avoid the pump being damage due to lack of water
- ❖ Low noise
- ❖ Protection system for electricity leakage or water shortage

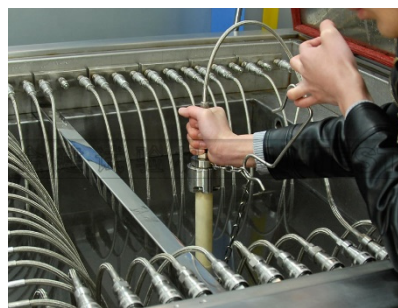




## WATER TANK

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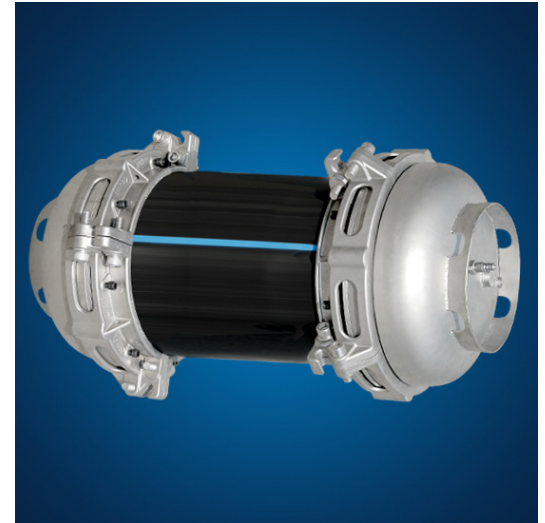
- ❖ Internal part material is stainless steel and equipped with stainless steel pump
- ❖ With excellent thermal insulation properties, even when the water temperature is up to 95 °C, the outer cover is still at room temperature. It helps to enhance the security and save more than 70% of power consumption
- ❖ Unique design of steam gathering device solves the problem of steam overflow from the water tank
- ❖ Structural bracing frame provides excellent supporting capacity and anti-deforming capacity
- ❖ Cover opening: pneumatic control, opening degree can be adjusted according to customer's requirement.
- ❖ Automatic water level control, if the water level is lower than pre-set value, it will re-establish automatically by introducing water in a way that the preset temperature will not fluctuate too much (fluctuation is less than 0.1°C).
- ❖ It is possible to provide multi-stations/groups and equipped with water filling device for big or small pipes



## END CAPS

End caps is designed for internal hydrostatic pressure testing of pipes and fittings. It is used to seal the sample in order to generate internal pressure in the sample, with the characters of:

- ❖ Structure ensures easy mounting and perfect sealing. **Split type clamps help to realize automatic centering**
- ❖ Material: stainless steel, which will not be rust even in water at 95°C
- ❖ Hollow-out design makes it lighter in weight, easier for observation and operation. For example, single-end weight (after assembly) of DN400 end caps less than 50kg and the weight of clamps is 7.3kg.
- ❖ End caps are produced with a specific depth from O-ring to the internal bottom which ensures that even on chamfered and oval PE pipes
- ❖ Stainless steel chain is used to connect upper and lower end caps, to avoid the lower one go down to the bottom of water tank if specimen brittle rupture.
- ❖ Air release valve to discharge the air left in the pipe
- ❖ Air resource inlet and drain port are introduced to drain water after testing for big diameter end caps







## ENDCAPS: MODULARIZED DESIGN AND BATCH PRODUCTION

