

## KASON-IPT02 Internal Pressure Tester for Plastic Bottles



Note: The picture is for reference only

### Product Overview

KASON-IPT02 Internal Pressure Tester for Plastic Bottles is mainly used for burst pressure and pressure resistance testing of plastic bottles, with a pressure range of 0~3.0MPa. It verifies whether PET bottles meet the requirements of the packaging industry. The test items specified in the standards comply with various standard requirements. It fully automatically displays the pressure change during the entire test, and can meet the requirements of pressure holding test, burst pressure test and deformation pressure test for bottles of various capacities. It is an essential testing instrument for plastic bottle manufacturers, beverage companies, medical and pharmaceutical manufacturers, quality inspection institutions and pharmaceutical manufacturers.

### Product Features

Equipped with an industrial-grade high-definition color touch screen, menu-type operation interface, one-key operation, and full-process display of the test;

Adopts internationally renowned brand processing chips, greatly improving the speed of pressure calculation and collection, effectively ensuring the accuracy of test results;

Reasonable hydraulic drive system with stable performance, no complex pipeline interfaces, reduced leakage rate and easy maintenance;

Complete testing functions that meet standard requirements, with dual test modes of pressure boosting and pressure holding, facilitating users to choose test methods;

High testing precision and wide measuring range, with a maximum high pressure of 3MPa to meet the testing needs of different users;

Fast testing speed, reasonably optimized hydraulic pressurization system helps users improve testing efficiency;

High degree of automation, with functions of automatic pressure boosting, pressure holding, automatic pressure relief after test, and automatic fault alarm during operation;

Equipped with a micro printer, which can print test data, results and date after the test, convenient for users to file and save test results;

Designed with multiple safety protection devices to ensure the personal safety of testers during the test;

Equipped with a damaged sample collection device and solid-liquid separation device with a special structure, easy for cleaning and maintenance;

Filters are installed on both gas and water pipelines to ensure the stable operation of each pipeline in the instrument system and effectively reduce maintenance costs;

The test system program supports ISP online upgrade, and personalized customization services are available.

### Testing Principle

The hydraulic pressure generated by the built-in hydraulic drive device of the instrument is transmitted to the pressure sensor and the tested plastic bottle sample equally through the pipeline. The equipment controller collects pressure signals from the pressure sensor in real time, and controls the built-in hydraulic drive device according to the pressure signal value, so that the pressure change in the system increases linearly in accordance with the requirements of national standards and ISO standards until reaching the preset value. During the pressurization or pressure holding process, if the tested sample bottle ruptures, it is unqualified; if the tested sample bottle is still intact after the system automatically relieves pressure at the end of the test, it is qualified.

### Reference Standards

GB/T 45318, GB/T 41167 and other packaging material standards

### Testing Applications

Basic Category	Application Objects
Plastic Bottles	Various plastic containers such as plastic bottles, PET beverage bottles, carbonated drink plastic bottles
Beverages & Alcohol	Various glass bottles such as beer bottles, liquor bottles, red wine bottles, soda bottles
Pharmaceutical Packaging	Various glass bottles such as vials and infusion bottles

Basic Category	Application Objects
Food & Seasoning	Various glass bottles/jars such as canned bottles, wide-mouth bottles, glass jars
Metal Cans	Various easy-open cans, aerosol cans and other metal cans
Daily Chemicals	Various glass bottles such as cosmetic glass bottles and chemical reagent glass bottles

### Technical Specifications

Item	Parameter
Measuring Range	0.1~3MPa (customizable range)
Resolution	0.01MPa
Pressure Test Error	±0.5% F.S
Pressure Boosting Rate	0.07±0.01MPa/s
Diameter of Bottle Mouth Clamp	Φ24~29mm (one set as standard, other specifications customizable)
Water Source Requirement	Continuous water supply or water tank
Water Source Connector	Φ6mm
Air Source Requirement	0.5-1MPa clean compressed air
Air Source Connector	Φ6mm
Dimensions	600mm(L)×650mm(W)×1450mm(H)
Operating Environment	Temperature 15℃-50℃; Humidity ≤80% non-condensing
Power Supply	220V 50Hz
Weight	80Kg

### Product Configuration

Standard Configuration: Main unit, standard clamp, micro printer

Optional Parts: Testing software, communication cable, non-standard clamps

# FOCUS IN MATERIAL TEST

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