

#### Wide range and multiple precision options

A variety of measurement ranges and accuracy levels are available for users to choose freely.

One host is equipped with two sets of piston systems with independent ranges at the same time, which can effectively widen the measuring range of the instrument, ensure the measuring accuracy, and save laboratory space. When using one of the range accuracy, the other set of piston system is automatically in the protection state, and there is no need for cumbersome valve switching.

Product series: ZHTS5000 series double piston pressure gauge

Measuring range: (0~110)MPa

YDT double-piston pressure gauge is mainly suitable for calibrating pressure sensors, pressure transmitters, digital pressure gauges and other precision pressure instruments. It can also be used to calibrate mercury pressure gauges, various non-corrosive industrial pressure gauges or other types of precision pressure measuring instruments. It is characterized by wide measuring range, large measuring range, sharing a set of weights, saving purchase cost, and widely used in industrial and mining enterprises such as petroleum, chemical industry, smelting, coal mine, ship, instrument and so on.

#### Features:

Measurement range: (0.04~35) MPa, (0.1~70) MPa, (0.1~110) MPa (other special measurement ranges need to be confirmed by us) ,

Accuracy level: 0.05, 0.02, 0.01, 0.005 ,

Each weight has an adjustment cavity, which is convenient for periodic inspection and adjustment ,

With pre-compression function, it is easy to pressurize at high pressure ,

The piston cylinder and piston cylinder are made of tungsten carbide and are carefully ground ,

Working environment temperature:  $(20 \pm 1) ^\circ\text{C}$  , relative humidity: constant temperature room below 85% ,

Each piston measuring system has an anti-break device, and users can use it with confidence ,

The weight of the high-voltage measurement system adopts a hanging basket structure, with a low center of gravity, reducing the risk of segment rods ,

High and low pressure automatic switching range, no valve switching

Two piston measuring systems share a set of weights

Verification standard: "JJG59-2007 Verification Regulations for Piston Pressure Gauge", "JJG99-2006 National Metrological Verification Regulations for Weights" ,

Each piece of equipment can be delivered with a national statutory structural inspection certificate (confirm with us in advance if necessary)

| Product number                                                           | YDT 5035                                                                    | YDT5070       | YDT5110                                |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|----------------------------------------|
| Measuring range                                                          | (0.1...35)MPa                                                               | (0.1...70)MPa | (0.1...110)MPa                         |
| High pressure piston minimum increment                                   | 0.5MPa                                                                      | 1MPa          | 1MPa                                   |
| Low pressure piston minimum increment                                    | 0.1MPa                                                                      | 0.1MPa        | 0.1MPa                                 |
| The pressure value generated by the high piston and its connecting parts | 0.1MPa                                                                      | 0.1MPa        | 0.1MPa                                 |
| Low pressure values generated by the piston and its connecting parts     | 0.5MPa                                                                      | 1MPa          | 2MPa                                   |
| The pressure value generated by the high piston and its connecting parts | 0.5kg                                                                       | 0.5kg         | 0.5kg                                  |
| Low pressure values generated by the piston and its connecting parts     | 0.5kg                                                                       | 0.5kg         | 0.5kg                                  |
| level of accuracy                                                        | 0.05 % of reading, 0.02 % of reading, 0.01 % of reading, 0.005 % of reading |               |                                        |
| pressure outlet                                                          | 2-M20x1.5 internal thread                                                   |               |                                        |
| Grease cup capacity                                                      | 250mL (expandable to larger)                                                |               |                                        |
| Pressure screw adjustment volume                                         |                                                                             |               |                                        |
| Piston working position                                                  | float height indicator                                                      |               |                                        |
| working medium                                                           | Transformer Oil or Diisooctyl Sebacate                                      |               | Transformer Oil or Diisooctyl Sebacate |
| Dimensions (l×d×h)                                                       | 64cmx54cmx33cm                                                              |               |                                        |