

# 精密压力表

## Precision Pressure Gauge

### 产品应用 Product Application

精密压力表由测压系统、传动机构、指示装置和外壳组成。精密压力表的测压弹性元件经特殊工艺处理，使精密压力表性能稳定可靠，与高精度的传动机构配套调试后，能确保精确的指示精度。精密压力表主要用来校验工业用普通压力表，精密压力表也可在工艺现场精确的测量对铜合金和合金结构钢等材质无腐蚀性、非结晶、非凝固介质的压力。

A precision pressure gauge consists of a pressure measurement system, transmission mechanism, indicating device, and casing. The pressure-sensitive element of a precision pressure gauge undergoes special processing to ensure stable and reliable performance. When combined with a high-precision transmission mechanism and properly calibrated, a precision pressure gauge can provide accurate indication. Precision pressure gauges are primarily used to calibrate industrial standard pressure gauges. They can also be used for precise pressure measurement of non-corrosive, non-crystalline, and non-solidifying media such as copper alloys and alloy structural steel in process environments.



### 技术参数 Main Technical Specifications

| 型号<br>Model  | 测量范围 MPa<br>Measurement Range                                                                                                                                                  | 精度等级<br>Accuracy Grade |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Y-150、YB-150 | -0.1~0、-0.1~0.06、-0.1~0.15、-0.1~0.3、-0.1~0.5、<br>-0.1~0.9、-0.1~1.5、-0.1~2.4、-0.1~3.9、-0.1~5.9、<br>0~0.6、0~1、0~1.6、0~2.5、0~4、0~6、0~10、<br>0~16、0~25、0~40、0~60、0~100、0~160、0~250 | 0.4、0.25               |

- 注：精密压力表选型注意事项
- 1.先确定精密压力表的测量范围参数；
  - 2.再通过同一行中分列的各分辨率参数进行比对来选择精密压力表的精度等级；
  - 3.使用环境条件：-40~70℃，相对湿度不大于85%；
  - 4.温度影响：使用温度偏离20±5℃时，不大于0.4%/10℃。

Note: Considerations for Selecting Precision Pressure Gauges

- 1.Determine the measurement range parameters of the precision pressure gauge.
- 2.Compare the resolution parameters listed in the same row to select the Accuracy Grade of the precision pressure gauge.
- 3.Operating environmental conditions: -40~70℃, relative humidity not exceeding 85%.
- 4.Temperature influence: When the operating temperature deviates from 20±5℃, the impact on accuracy is not greater than 0.4%/10℃.

选型指南

Selection Handbook

|                                                                                                                                                                                                 |  |                      |  |  |  |                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--|--|--|-----------------------------------------------------------------------------------------|
| 精密压力表Y-<br>Precision Pressure Gauge Y-                                                                                                                                                          |  |                      |  |  |  |                                                                                         |
| <div>壳体+元件材质 Casing shell+Element Material</div> <div>碳钢+铜 Carbon Steel+Copper                      无代码 No code</div> <div>不锈钢+不锈钢 Stainless Steel+Stainless Steel                      B</div> |  |                      |  |  |  |                                                                                         |
| 连接符号 Connection Symbol                                                                                                                                                                          |  | -                    |  |  |  |                                                                                         |
| 表盘直径 Dial Diameter                                                                                                                                                                              |  |                      |  |  |  |                                                                                         |
| Φ150                                                                                                                                                                                            |  |                      |  |  |  |                                                                                         |
| <div>过程连接 Process Connection</div> <div>M20×1.5</div> <div>G1/2</div> <div>1/2"NPT</div> <div>其他 Other</div>                                                                                    |  | 文字说明 Specify in text |  |  |  |                                                                                         |
| <div>精度等级 Accuracy Grade</div> <div>0.4</div> <div>0.25</div> <div>0.16</div> <div>其他 Other</div>                                                                                               |  | 文字说明 Specify in text |  |  |  |                                                                                         |
| <div>附件可选 Optional Accessories</div> <div>阻尼器 Damper</div> <div>散热器 Heat Sink</div> <div>过压保护器 Overpressure Protector</div> <div>冷凝管 Condensing Tube</div> <div>其他 Other</div>                  |  |                      |  |  |  | <div>ZN</div> <div>SR</div> <div>OP</div> <div>SP</div> <div>文字说明 Specify in text</div> |