

CY series differential pressure gauge

Application

Pressure difference gauge can be used to measure such parameters as pressure difference, flow for different liquid (gas) media in processing flow in many industrial departments, like chemical industry, chemical fiber, metallurgy, electrical industry, nuclear power station.



Principle

Due to two corrugated tubes with same rigidity for pressure sensitive unit, same force will impact active support under same measured media. Because two ends of spring slice will not generate bending, the support still keeps at original position. So liquid of gear transmission mechanism hasn't any action, the pointer still directs at the zero position.

When apply different forces (in normal case, the force at high pressure end is greater than that at low pressure end), the force applied by two corrugated tubes are different, corresponding displacement will be generated, which will drive gear transmission mechanism and enlarge it, the pressure difference will be indicated by deflexion of the pointer.

Representation of Models

CY — 1 H 2 3

| Code | Comment |
|-----------|--|
| CY | Difference pressure gauge |
| 1 | Diameter of gauge dial 100 and 150 represent 100mm and 150mm for scale diameter, respectively |
| H | Anticorrosive stainless steel model |
| 2 | Installation mode for Gauges I Splay model II Parallel model |
| 3 | Installation mode for Gauges Blank indicates no edges T with edge at back |

Note: pressure difference indicates it can't be lower than 1/6 of full range, so you shall consider max applied pressure during selection of measurement range. If other requirements exist, it only can be customized after confirmed and clarified by our factory

Main Technical parameter

Accuracy: 2.5%, 1.6%

Measurement range: 0~0.1, 0.16, 0.25, 0.4, 0.6, 1, 1.6, 2.5MPa
0~1...60KPa

Scale pan: black words with white background

Connection dimension: radial connector M20X1.5 or promised special requirement

Temperature: environment temperature -20 ~ +60°C, media temperature lower than 60°C

Gauge connector: label H at high pressure end; label L at low pressure end.



CY-150HI

Splay model

Material of main parts for pressure guidance system and shell

| Parts name | Material sign (code) |
|------------------------------------|----------------------|
| Connector, canula | 0Cr17Ni12Mo2(316) |
| Corrugated tube | 00Cr17Ni14Mo2(316L) |
| Case, cover, and loop of the gauge | 0Cr18Ni9(304) |

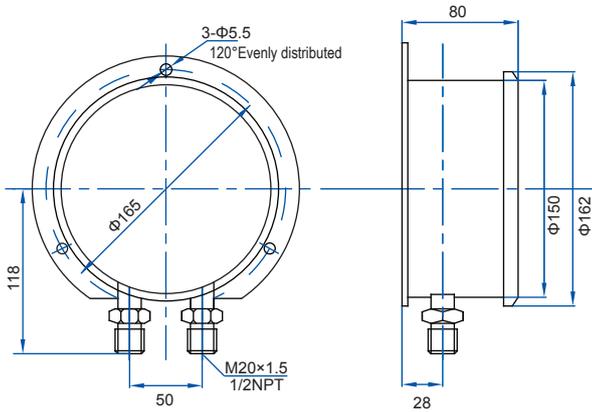


CY-100HII

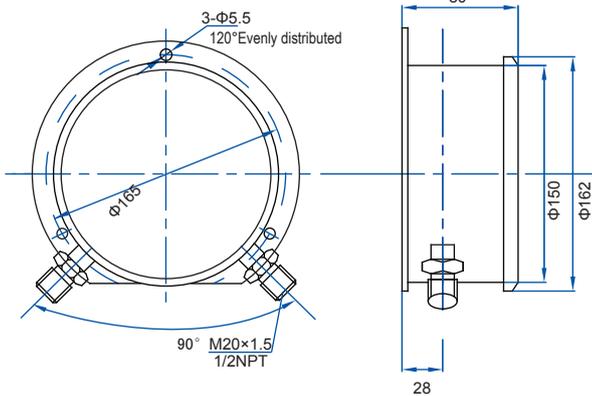
Parallel model

Outline dimension

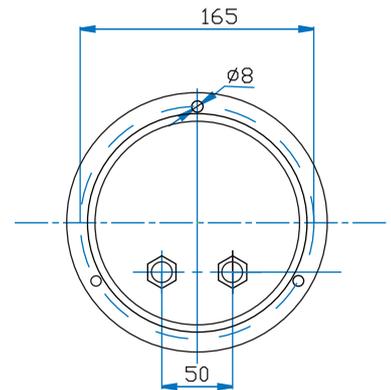
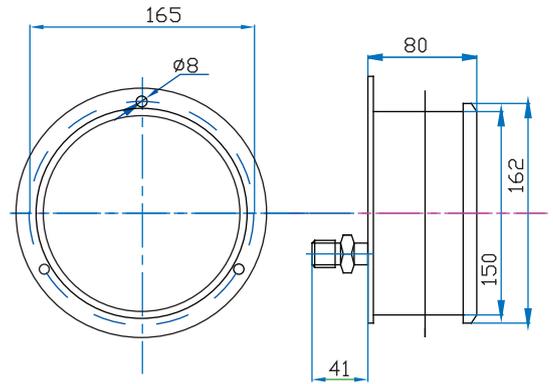
● Parallel model



● Splay model



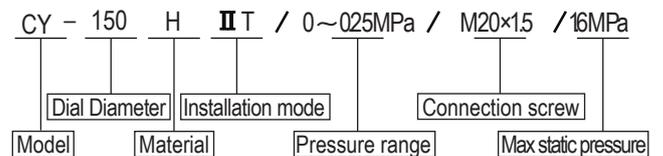
● Axial model



Necessity for purchase order

Model / Dial diameter / Material / Installation mode / pressure range / connection screw / max static pressure

Representation of Sample



Text statement

Pressure difference gauge made of stainless steel with edge at back, measurement range 0~0.25MPa

Screw standard M20X1.5, max static pressure 1.6 MPa

Safety Warning

or safety reason, please select the products with proper model, if the type-choosing or usage of the products is improper, property loss or body damage may be caused. Designers and users of the system shall take the responsibility to select proper products and use the products according to correct methods.

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CY-150H II T Parallel with edge at back, made of stainless steel

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