



General Industrial Pressure Gauge, Black Steel Case Model: PRI

Applications

- Suitable for measuring the pressure of non-corrosive media such as air, oil, water, and gas
- Widely used in instrumentation, hydraulics, pneumatics, HVAC, pumps, compressors, and OEM equipment
- Ideal for air compressors, vacuum pumps, pneumatic lines, pressure regulators, test equipment, and medical sterilizers

Special features

- Compact 1.5", 2" and 2.5" dial sizes
- Bottom or center-back mounting, with flange and U-clamp options
- Pressure ranges from 0 ... 1 bar to 0 ... 400 bar, plus vacuum and compound ranges
- Black zinc-plated steel case with copper-alloy wetted parts

Website



The product images displayed in the catalog are illustrative, and the actual products will be customized to your requirements.

Description

The PRI is a general-purpose Bourdon tube pressure gauge designed for industrial pressure, vacuum and compound measurements. Its black zinc-plated steel case is available in 1.5", 2" and 2.5" dial sizes, with bottom or center-back mounting configurations. Copper-alloy wetted parts and movement suit non-corrosive media, while acrylic, polycarbonate or glass windows are available. Measuring ranges extend from 0 ... 1 bar to 0 ... 400 bar and -1 ... 30 bar. Optional oxygen-service cleaning, damped movement, high-temperature silver brazing and diaphragm-seal mounting support varied applications.

Specifications

Basic information	
Connection location	
Bottom mount	■ Without flange
Center back mount	■ Without flange ■ With front flange
Nominal size	■ Ø 40 mm [1.5"] (center back mount with front flange not available) ■ Ø 50 mm [2"] ■ Ø 63 mm [2.5"]
Window	Acrylic
Case material	Black zinc-plated steel
Case filling	Not available
Pointer	Aluminium, black
Dial	
Scale colour	Black
Material	Aluminium alloy
Pointer stop pin	At zero point

Accuracy specifications	
Scale ranges	
Positive pressure	0 ... 1 bar to 0 ... 400 bar
Compound pressure	-1 ... 30 bar
Vacuum pressure	-1 ... 0 bar
	Other equivalent units of pressure or vacuum are available
Accuracy	
1.5 "	±4 % F.S.
2 "	±2.5 % F.S.
2.5"	±2.5 % F.S.

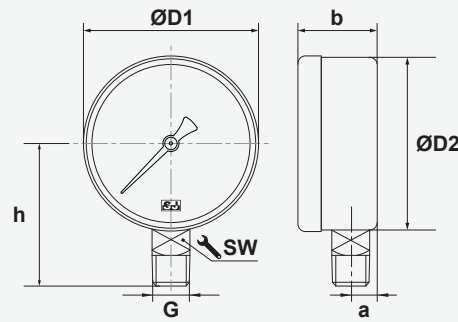
Measuring element	
Bourdon tube material	Brass
Movement	Brass

Process connection	
Thread Specification	
Standard size	■ 1/8 BSPT (PT), male thread ■ 1/4 BSPT (PT) , male thread ■ 1/8 BSPP (PF), male thread ■ 1/4 BSPP (PF), male thread ■ 1/8 NPT, male thread ■ 1/4 NPT, male thread
Wetted parts material	Brass

Operating conditions		
Medium temperature		
Unfilled instruments		-20°C~60°C
Ambient temperature		
Unfilled instruments		-20°C~60°C
Storage temperature		
Unfilled instruments		-20°C~60°C
Pressure limitation		
Steady		3/4 of full scale value
Fluctuating		2/3 of full scale value
Short time		Full scale value
Ingress protection		
Ingress protection per IEC/EN 60529		IP30

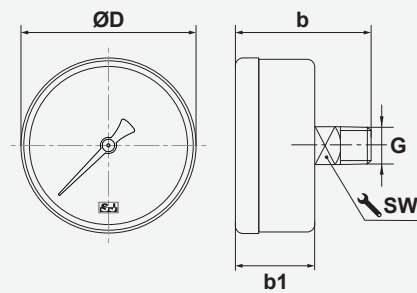
Dimensions in mm

Bottom mount



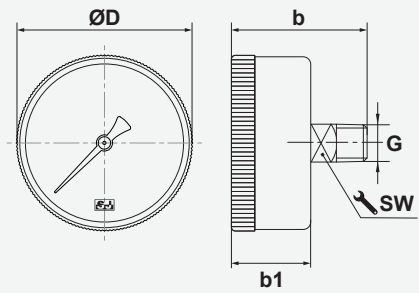
NS	G	h	D1	D2	a	b	SW
1.5"	1/4 PT	44.5	42	40.75	9	26	14
2"	1/4 PT	45	53	51.5	9.5	26.5	14
2.5"	1/4 PT	53	62.5	60.5	10	30	14

Back mount



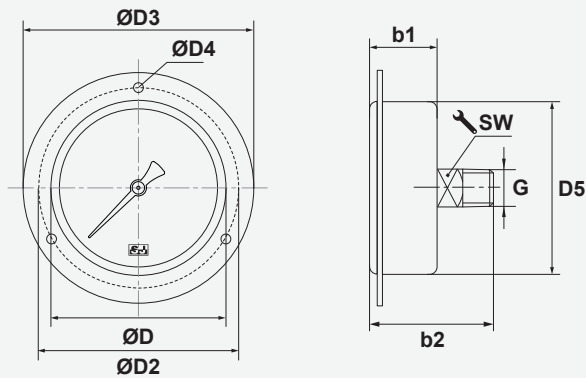
NS	G	D	b	b1	SW
1.5"	1/4 PT	42	45	25	14
2"	1/4 PT	52.5	46.5	27	14

Back mount



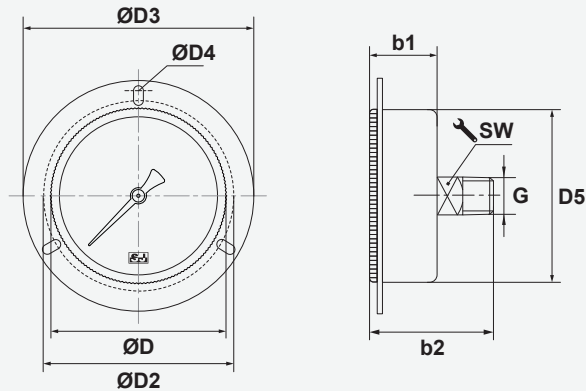
NS	G	D	b	b1	SW
2.5"	1/4 PT	65	52	30.5	14

Back mount with flange



NS	G	D	D2	D3	D4	D5	b1	b2	SW
2"	1/4 PT	54	60	71	4	51	28	46	14

Back mount with flange



NS	G	D	D2	D3	D4	D5	b1	b2	SW
2.5"	1/4 PT	65	70.5	87.5	8x4	62	29	52	14

Ordering information

(1)Basic information

Model PRI

Nominal size

- ☐ Ø 40 mm [1.5"] (center back mount with front flange not available)
☐ Ø 50 mm [2"]
☐ Ø 63 mm [2.5"]

Connection location

- ☐ Bottom mount ☐ Center back mount - Without flange ☐ Center back mount - With Front Flange

Thread size

- ☐ 1/8 BSPT (PT), male thread ☐ 1/8 BSPP (PF), male thread ☐ 1/8 NPT, male thread
☐ 1/4 BSPT (PT), male thread ☐ 1/4 BSPP (PF), male thread ☐ 1/4 NPT, male thread

(2)Scale ranges

Example : 0...1 bar (outer) / 0...100 kPa (Inner)

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(3)Options

Options

- | | |
|--|---|
| ☐ Oxygen service (oil- and grease-free treatment) | ☐ Diaphragm seal mounted |
| ☐ High-temperature silver brazing | ☐ Polycarbonate window |
| ☐ Accuracy $\pm 1.6\%$ F.S. (Applicable to 2.5" gauges) | ☐ Glass window |
| ☐ Bezel, chrome-plated | ☐ Pointer stop pin, at full scale |
| ☐ Connection, chrome-plated | ☐ Pointer stop pin, at 6 o'clock |
| ☐ Back case, chrome-plated | ☐ Drag pointer |
| ☐ Dampened movement | ☐ Mark pointer on window, adjustable |
| ☐ Internal stop pin - underload stop | ☐ Warning color band |
| ☐ Internal stop pin - overload stop | ☐ Customized dial |
| ☐ Vacuum resistance | ☐ Custom product label |
| ☐ Restrictor | ☐ Custom packaging box |
| ☐ Throttle screw | |

Compliance

- ☐ RoHS compliant
☐ REACH compliant

Certificates

- ☐ Factory Calibration Certificate
☐ Third-Party Laboratory Calibration Certificate
☐ TAF-Accredited Laboratory Calibration Report
☐ TAF-Accredited Laboratory Calibration Report with ILAC MRA Mark
☐ CIPM MRA Recognized Calibration Report

Documentation

※ Provided free of charge upon request at the time of order

- ☐ Quality Certificate
☐ One-year Warranty Certificate

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- For any changes to the specifications of this catalogue, the latest version shall prevail. -

