

## SERIES: P23

**Dial:** 2½", 4", 6"  
**Accuracy:** 0.5%, 1.0%, 1.6%

### DESCRIPTION

Indumart *P23 Series* All Stainless Steel Fillable Solid Front Stainless Steel Pressure Gauges according to NACE MR0175 and NACE MR0103 standards are ideal for harsh environment and corrosive media. A burst-proof solid front between the dial and measuring system along with safety glass and blow-off back cover provide ultimate safety for all gauge locations.

Because of their robust design, these heavy duty gauges meet stringent demands and bring the advantages of high accuracy, long-term stability and protection against dust and hose washing.

These heavy duty pressure gauges are used at measuring points with high dynamic alternating loads and strong vibrations and pulses. By introducing the **new stabilizer technology** in these pressure gauges, they are able to dampens vibration and pulsation without the problems of liquid filling; therefore NO LIQUID LEAKS, NO COSTLY FILLING LIQUIDS, NO FILL LINES, WIDER TEMPERATURE RANGES, LESS WEAR and LONGER LIFE. However, if the user still persists on filling the gauges with glycerine or silicon, they may be filled, as an option, upon delivery or at a later time by the user.

Socket of *P23 series* is welded to its case and the socket and its measuring element are made of 316L stainless steel and treated to meet NACE MR0175 and NACE MR0103, which make them resistant to hydrogen sulfide stress corrosion cracking. The design and manufacturing is according to EN873-1 standards. Having internal overpressure / vacuum stop and dampening screw are other features of *P23 Series*. The *P23 Series* may be ordered with Epoxy painted 304 SS stainless steel case (a more economical option than 316 SS case & bezel) to be used in harsh and corrosive environments.

## NACE MR0175 & MR0103

**Stabilizer Movement,**  
(the dry gauge performs as stable as the liquid-filled ones, but more accurate)

**Anti-Glare & Anti-Static Window**  
(repels dust and eliminates light reflection)



## Fillable Pressure Gauges

Optional anti-glare and anti-static glass window can be ordered for places that have dirty atmosphere or sunshine and excessive light reflection make it impossible to read the dial. These windows repel dust and eliminate light reflection.

Optionally, Monel K400 may be specified as the wetted parts material of the *P23 Series*, and wall mounting with front or back flange may be ordered to suit most applications. Also the gauge may be supplied with the DIN type case and bezel.

## SPECIFICATIONS

<b>Accuracy</b>	1.0% (4" & 6" dials); 1.6% (2½" dial); 0.5% (option)
<b>Dial Sizes</b>	2½" (63 mm), 4" (100 mm), 6" (150 mm)
<b>Case &amp; Bezel</b>	304 st. steel (std); 316 st. steel (option) Epoxy painted 304 SS (option)
<b>Bezel</b>	Bayonet
<b>Measuring Element</b>	316L st. steel treated to comply with NACE MR0175 & MR0103 standards (NACE not available for 63 mm dial) Bourdon tube for <1500 psi (100 bar or 10,000 kPa) Helical tube for ≥ 1500 psi (100 bar or 10,000 kPa)
<b>Bourdon Tube Movement</b>	316 st. steel; Monel (option) 304 st. steel with stabilizer (stabilizer is not available for 63 mm dial)
<b>Connection Thread</b>	Bottom ½" NPT (4" & 6" dials), ¼" NPT (2½" dial) BSP thread (option)
<b>Blow-out Back</b>	Full baffle wall; 304 SS (4" & 6" dials); PVDF for 2½" dial
<b>Gasket Pointer</b>	EPDM Micrometer zero adjustable (not available for 2½" dial)
<b>Socket &amp; Restrictor</b>	316L st. steel treated to comply with NACE MR0175 & MR0103 standard (NACE not available for 63 mm dial)
<b>Window</b>	Safety glass (std.), anti-glare and anti-static glass window (option)
<b>Pointer</b>	Micrometer adjustable
<b>Dial Material</b>	Aluminum
<b>Temperature Error</b>	0.4%/10K of scale value; deviation from reference temperature of 20°C
<b>Process Temperature</b>	Max. 200°C (for non-filled gauges)
<b>Ambient Temperature</b>	-40...60°C
<b>Protection Range</b>	IP65 (not available for all dials) 0...10 to 0...20,000 psi; 0...60 to 0...160,000 kPa; 0...0.6 to 0...1,600 bar Vacuum & compound ranges are available. Single or double scale dials.

Specifications may change without prior notice.

## ORDER CODES

**Model P23**

### CONNECTION

Bottom

### DIAL SIZE

100 mm (4")

160 mm (6")

### OPTIONS (more than one option may be selected)

Glycerine Filling

Silicon Filling

0.5% Accuracy

Epoxy Painted 304 SS Case & Bezel

Monel K400 Wetted Parts (not available for ½" dial)

316 St. Steel Case & Bezel

DIN Case & Bezel

Anti-Glare & Anti-Static Glass Window

¼" Process Connection

BSP Thread

Back Flange for Wall Mounting

Front Flange for Panel Mounting

Calibration Certificate

FG

FS

AC

CY

IM

CT

CD

WA

TR

TB

MK

MF

RC

*Example: P23T4-AC,IM,MK*



**INDUMART** INC.

25 Denison St., Markham, Ont. L3R 1B5, Canada  
Phone: (905) 944-9998 Fax: (905) 944-8482 email: sales@indumart.com