

Low Pressure Diaphragm



200 SERIES

- Sensitive capsule-type, non-fillable dry gauge
- Vacuum ranges through 0 psi to 10 psi
- 2-1/2" and 4" gauge sizes
- Black painted Steel, Stainless Steel and impact-resistant ABS case
- Copper alloy and Brass wetted parts

OPERATING SPECIFICATIONS

1. Working Pressure Limitations

a. Dynamic Pressure

The working pressure should be limited to 60% of the dial range.

b. Static Pressure

The working pressure, where no sharp fluctuations occur, should be limited to 90% of the dial range

APPLICATIONS

- Filter monitoring
- Gas distribution
- HVAC
- Leak detection
- Level indication
- Medical

| | SERIES | SPECIFICATIONS |
|---------------------|--|---|
| Pressure ranges | 200 Series (all) | Extreme low pressure vacuum ranges through 0 psi to 10 psi |
| Accuracy | 25-200, 25-210, 25-224 | ±1.6% full scale |
| | 25-206, 25-216 | ±2.5% full scale |
| | 40-200 | ±1.6% full scale; optional ±1% full scale |
| Temperature ranges* | 200 Series (all) | Media -4 °F to 176 °F (-20 °C to 80 °C) Ambient -4 °F to 140 °F (-20 °C to 60 °C) |
| Measuring element | 25-200, 25-210, 25-224, 40-200 | Copper alloy diaphragm capsule |
| Connection | 200 Series (all) | 1/4" NPT, Brass |
| Case | 25-200, 25-210 | Black painted Steel |
| | 25-206, 25-216, 25-224 | Black ABS (Acryl Nitril Butadien Styrol) with 25-224 includes zinc-plated Steel panel mount clamp |
| | 40-200 | 304 Stainless Steel |
| Bezel | 40-200 | 304 Stainless Steel |
| Lens | 25-200, 25-206, 25-210, 25-216, 25-224 | Acrylic |
| | 40-200 | Instrument glass |
| Pointer | 200 Series (all) | Black finished Aluminum |
| Dial | 200 Series (all) | Aluminum, white background with black scale. UV resistant. |
| Movement | 25-200, 25-210, 25-224, 40-200 | Brass and Nickel-silver with highly polished bearing surfaces |
| | 25-206, 25-216 | Cu-Alloy |

* For every 18 °F (10 °C) shift in temperature from which the gauge is calibrated, the user can experience up to ±0.4% additional error.

For details on accuracy/standard dial configuration and dial layouts, see pages 56-61.



WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



| ORDERING INFORMATION | | | | | | | | | |
|----------------------|----------------------------|---|------------------------|--|--|---|----------|--------------------------------|--|
| GAUGE SIZES | | 25 2-1/2" | | 40 4" | | | | | |
| CASE TYPES | | 200 Steel, bottom connection (304SS for 4") | | 224 ABS, panel mount | | | | | |
| | | 210 Steel, back connection | | 234 Gas pressure test kit** | | | | | |
| PRESSURE RANGES | 15 inH ₂ O Vac | -15 inH ₂ O to 0 inH ₂ O | 100 inH ₂ O | 0 inH ₂ O to 100 inH ₂ O | 100 oz/in ² | 0 oz/in ² to 100 oz/in ² | 60 mbar | 0 mbar to 60 mbar | |
| | 30 inH ₂ O Vac | -30 inH ₂ O to 0 inH ₂ O | 160 inH ₂ O | 0 inH ₂ O to 160 inH ₂ O | 160 oz/in ² | 0 oz/in ² to 160 oz/in ² | 100 mbar | 0 mbar to 100 mbar | |
| | 60 inH ₂ O Vac | -60 inH ₂ O to 0 inH ₂ O | 200 inH ₂ O | 0 inH ₂ O to 200 inH ₂ O | 20 oz/ in ² /inH ₂ O | 0 oz/in ² /inH ₂ O to 20 oz/in ² /inH ₂ O | 160 mbar | 0 mbar to 160 mbar | |
| | 100 inH ₂ O Vac | -100 inH ₂ O to 0 inH ₂ O | 10 oz/in ² | 0 oz/in ² to 10 oz/in ² | 32 oz/ in ² /inH ₂ O | 0 oz/in ² /inH ₂ O to 32 oz/in ² /inH ₂ O | 250 mbar | 0 mbar to 250 mbar | |
| | 10 inH ₂ O | 0 inH ₂ O to 10 inH ₂ O | 15 oz/in ² | 0 oz/in ² to 15 oz/in ² | 3 psi | 0 psi to 3 psi | 400 mbar | 0 mbar to 400 mbar | |
| | 15 inH ₂ O | 0 inH ₂ O to 15 inH ₂ O | 30 oz/in ² | 0 oz/in ² to 30 oz/in ² | 5 psi | 0 psi to 5 psi | 600 mbar | 0 mbar to 600 mbar | |
| | 30 inH ₂ O | 0 inH ₂ O to 30 inH ₂ O | 35 oz/in ² | 0 oz/in ² to 35 oz/in ² | 10 psi | 0 psi to 10 psi | | | |
| | 60 inH ₂ O | 0 inH ₂ O to 60 inH ₂ O | 60 oz/in ² | 0 oz/in ² to 60 oz/in ² | 40 mbar | 0 mbar to 40 mbar | | | |
| CONNECTION SIZE | | 1/4 1/4" NPT | | | | | | | |
| OPTIONS | BLRF | Black Rear Flange | GL | Glass Lens* | OP | Over Pressure Protection | CCR | Chrome Cover Ring | |
| | SSRF | 304SS Rear Flange | SG | Safety Glass Lens* | SSBU | Stainless Steel Bezel & U-Clamp | LM | Laser Marking | |
| | BLFF | Black Front Flange*** | PL | Acrylic Lens | BBU | Black Bezel & U-Clamp | ST | Stainless Steel Tagging | |
| | SSFF | 304SS Front Flange | RL | Recalibrator Lens | BCR | Black Cover Ring | BP3 | Brass Press Fit Orifice 0.3 mm | |
| | CFF | Chrome Front Flange*** | SP | Red Set Pointer | SSCR | Stainless Steel Cover Ring | BT3 | Brass Threaded Orifice 0.3 mm | |
| | SSC | Stainless Steel Case | MIP | Maximum Indicating Pointer | | | | | |

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

NOTE: Refer to 200 Series Options & Accessories chart on page 51 for availability by part number.

* A Steel, Stainless or chrome cover ring must be additionally ordered when lenses other than acrylic are utilized on all 200 Series

** Only available in 2-1/2" size, 20 oz/35 inH₂O

*** Not available on 25-200 model

EXAMPLE

25 - 200 - 30 - inH₂O - 1/4 - BP3

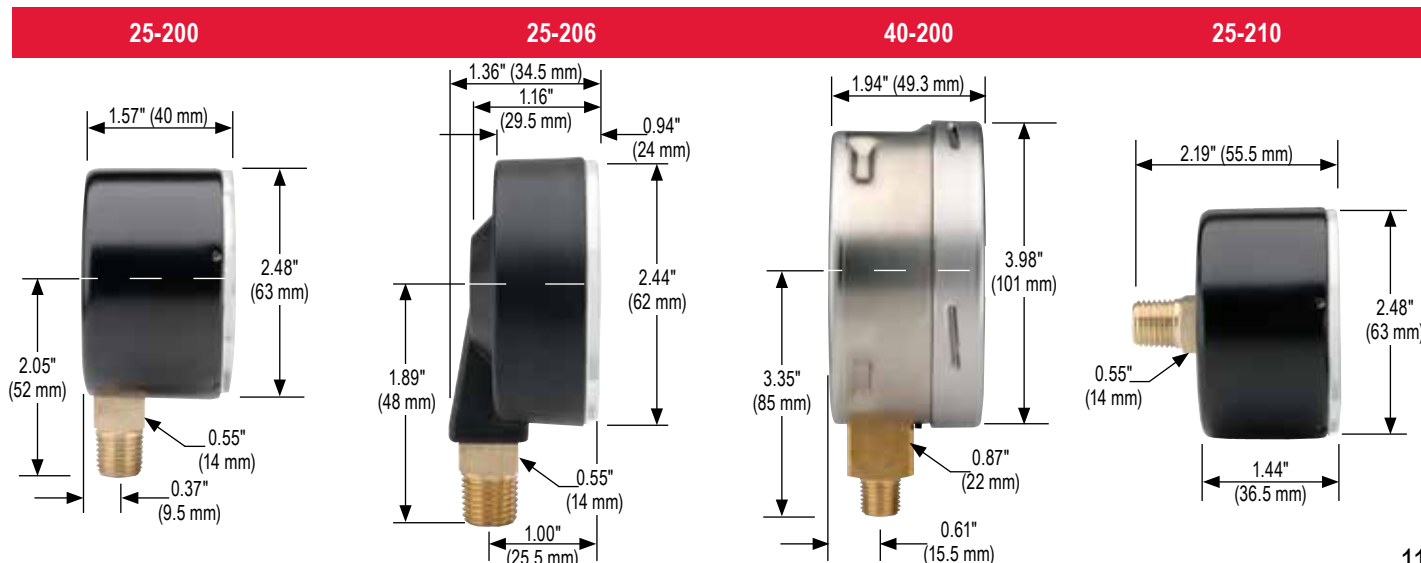
Gauge size 2-1/2"

Case type Steel, bottom connection

Pressure range & scale option 0 inH₂O to 30 inH₂O

Connection size 1/4" NPT

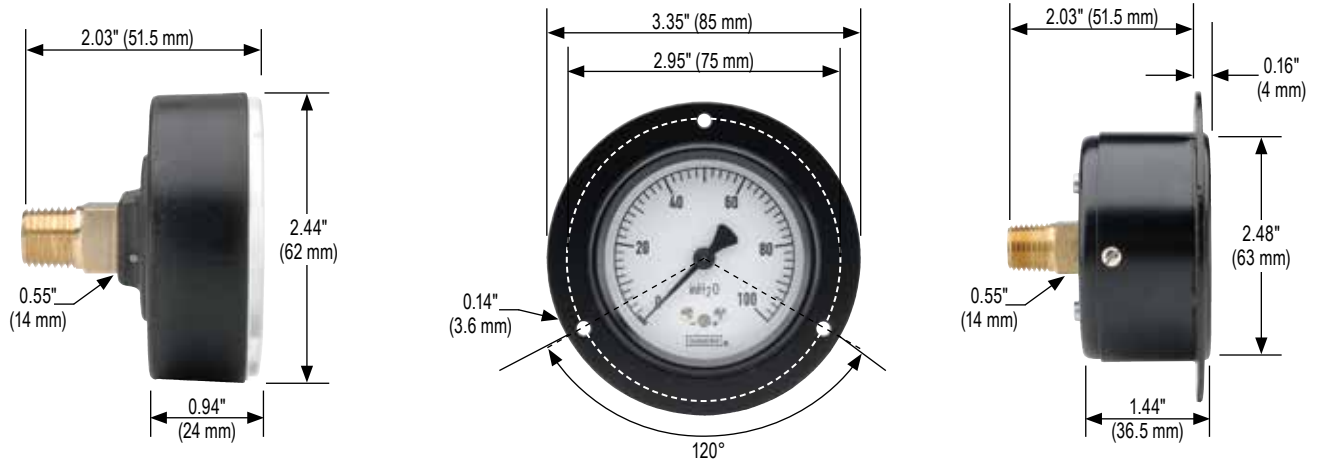
Option Brass Press Fit Orifice 0.3 mm



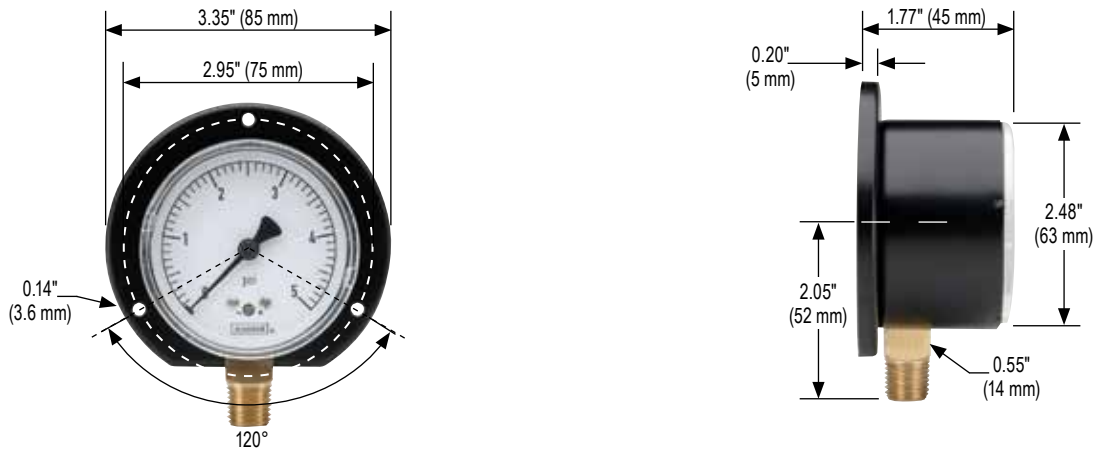
Dimensions

25-216

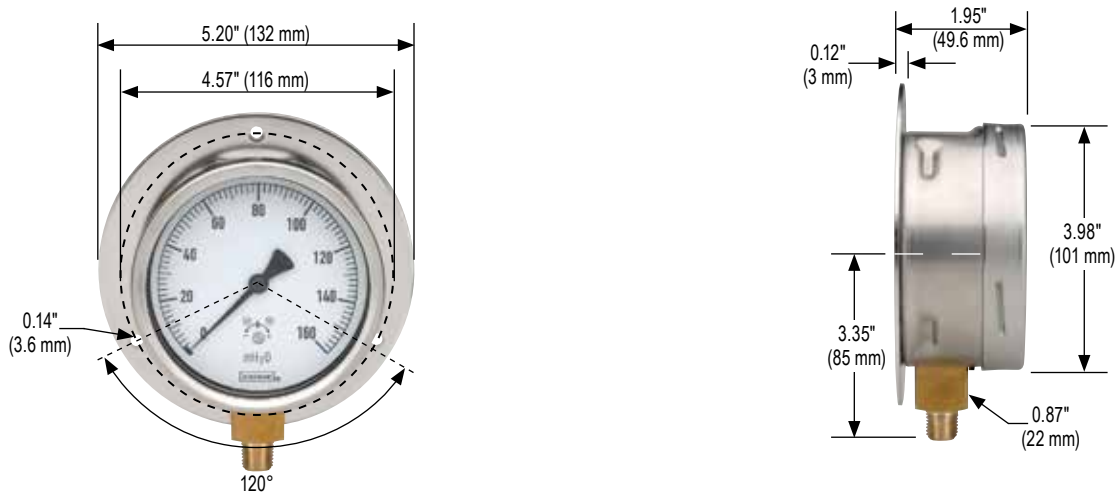
25-210 Front Flange



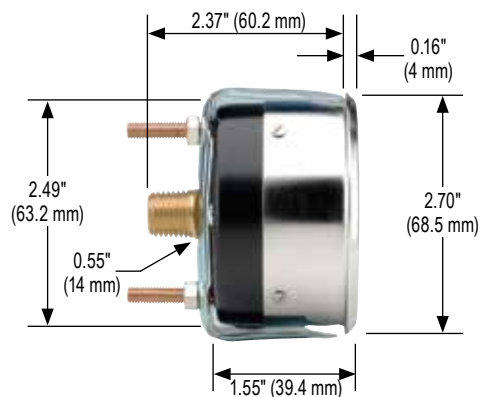
25-200 Rear Flange



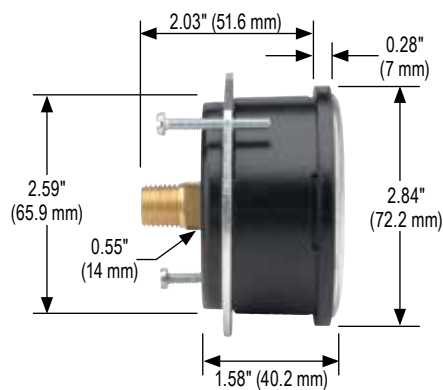
40-200 Rear Flange



25-210 Triangular Bezel w/U-Clamp



25-224 with Panel Mount Clamp



25-234

