

# ABS & Steel Case, Dry



## 100 SERIES

- General purpose non-fillable dry gauge
- Vacuum and compound ranges through 0 psi to 15,000 psi
- 1-1/2", 2", 2-1/2" and 4" gauge sizes
- Standard impact-resistant ABS & Steel 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

- Hydraulics & pneumatics
- Medical
- Pumps & compressors
- Refrigeration controls
- Utilities
- Water management

|                     | SERIES                                                                         | SPECIFICATIONS                                                                        |
|---------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Pressure ranges     | 100 Series (all)                                                               | Vacuum and compound ranges through 0 psi to 15,000 psi                                |
| Accuracy            | 15-100, 15-110, 15-120, 20-100, 20-110, 20-120, 20-148, 25-100, 25-110, 25-120 | ±2.5% full scale                                                                      |
|                     | 40-100                                                                         | ±1.6% full scale                                                                      |
| Temperature ranges* | 100 Series (all)                                                               | Media -4 °F to 140 °F (-20 °C to 60 °C)<br>Ambient -40 °F to 140 °F (-40 °C to 60 °C) |
| Measuring element   | 100 Series (all)                                                               | Copper alloy Bourdon tube                                                             |
| Connection          | 15-100, 15-110, 15-120, 20-100, 20-110                                         | 1/8" NPT, Brass                                                                       |
|                     | 20-148                                                                         | 1/8" NPT/10-32 Female, Brass                                                          |
|                     | 20-100, 20-110, 20-120, 25-100, 25-110, 25-120, 40-100                         | 1/4" NPT Brass<br>SAE J1926-3:7/16-20                                                 |
| Case                | 15-100, 15-110, 20-100, 20-110, 20-148, 25-100, 40-100                         | ABS (Acryl Nitril Butadien Styrol)                                                    |
|                     | 15-120, 20-120, 25-120                                                         | Black painted Steel with chrome triangular bezel and U-clamp                          |
| Bezel               | 15-110, 20-110, 25-110                                                         | Built-in bezel, molded as an integral part of the case for ease of panel mounting.    |
|                     | 15-120, 20-120, 25-120                                                         | Chrome-plated Steel triangular bezel                                                  |
| Lens                | 100 Series (all)                                                               | Acrylic                                                                               |
| Pointer             | 100 Series (all)                                                               | Molded plastic                                                                        |
| Dial                | 100 Series (all)                                                               | White background with black primary scale & red secondary scale. UV resistant.        |
| Movement            | 100 Series (all)                                                               | Brass & nylon, or all-Brass with highly polished bearing surfaces                     |

\* 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.



| ORDERING INFORMATION              |        |                                  |         |                                   |                        |                                   |         |                                  |  |
|-----------------------------------|--------|----------------------------------|---------|-----------------------------------|------------------------|-----------------------------------|---------|----------------------------------|--|
| GAUGE SIZES                       | 15     | 1-1/2"                           | 20      | 2"                                | 25                     | 2-1/2"                            | 40      | 4"                               |  |
| CASE TYPES                        | 100    | ABS, bottom connection           | 120     | Steel case panel mount            |                        |                                   |         |                                  |  |
|                                   | 110    | ABS, back connection             | 148     | Square ABS, panel mount (2" only) |                        |                                   |         |                                  |  |
| PRESSURE RANGES                   | 30vac  | -30 inHg vacuum to 0 psi         | 30/300  | -30 inHg to 0 to 300 psi          | 200                    | 0 psi to 200 psi                  | 2000    | 0 psi to 2,000 psi               |  |
|                                   | 30/15  | -30 inHg to 0 to 15 psi          | 15      | 0 psi to 15 psi                   | 300                    | 0 psi to 300 psi                  | 3000    | 0 psi to 3,000 psi               |  |
|                                   | 30/30  | -30 inHg to 0 to 30 psi          | 30      | 0 psi to 30 psi                   | 400                    | 0 psi to 400 psi                  | 5000    | 0 psi to 5,000 psi               |  |
|                                   | 30/60  | -30 inHg to 0 to 60 psi          | 60      | 0 psi to 60 psi                   | 600                    | 0 psi to 600 psi                  | 6000    | 0 psi to 6,000 psi               |  |
|                                   | 30/100 | -30 inHg to 0 to 100 psi         | 100     | 0 psi to 100 psi                  | 1000                   | 0 psi to 1,000 psi                | 10000   | 0 psi to 10,000 psi              |  |
|                                   | 30/160 | -30 inHg to 0 to 160 psi         | 160     | 0 psi to 160 psi                  | 1500                   | 0 psi to 1,500 psi                | 15000   | 0 psi to 15,000 psi              |  |
|                                   | 30/200 | -30 inHg to 0 to 200 psi         |         |                                   |                        |                                   |         |                                  |  |
| Other ranges available on request |        |                                  |         |                                   |                        |                                   |         |                                  |  |
| SCALE OPTIONS***                  | psi    | psi single scale                 | psi/kPa | psi/kPa dual scale                | psi/kg/cm <sup>2</sup> | psi/kg/cm <sup>2</sup> dual scale | psi/bar | psi/bar dual scale               |  |
| CONNECTION SIZES                  | 1/8    | 1/8" NPT                         | SST     | SAE J1926-3/7/16-20 Adjustable    | 1/4                    | 1/4" NPT                          |         |                                  |  |
| OPTIONS                           | PMC    | Panel Mount Clamp                | SSC     | Stainless Steel Case              | LL                     | Polycarbonate Lens                | ST      | Stainless Steel Tagging          |  |
|                                   | SSB    | Polished Stainless Steel Bezel   | CRC     | Chrome Case                       | GL                     | Glass Lens*                       | CPO     | Brass Sintered Orifice 20 Micron |  |
|                                   | BLRF   | Black Rear Flange                | FAC     | Flat Sided ABS Case               | SG                     | Safety Glass Lens*                | BP1     | Brass Press Fit Orifice 0.1 mm   |  |
|                                   | BLFF   | Black Front Flange – ABS Case    | BCR     | Black Cover Ring**                | HL                     | Homalite Lens*                    | BP3     | Brass Press Fit Orifice 0.3 mm   |  |
|                                   | CFF    | Chrome Front Flange – ABS Case   | SSCR    | Stainless Steel Cover Ring**      | SP                     | Red Set Pointer**                 | BP8     | Brass Press Fit Orifice 0.8 mm   |  |
|                                   | SBFF   | Black Front Flange – Steel Case  | CCR     | Chrome Cover Ring**               | MIP                    | Maximum Indicating Pointer        |         |                                  |  |
|                                   | SCFF   | Chrome Front Flange – Steel Case | PCCR    | Polished Chrome Cover Ring**      | SDM                    | Silicone Dampened Movement        |         |                                  |  |
|                                   | BSC    | Black Steel Case                 | CAR     | Chrome Adapter Ring*              | LM                     | Laser Marking                     |         |                                  |  |

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

NOTES: Refer to 100 Series options & accessories chart on page 50 for availability by part number.

Cleaning for Oxygen Service (O2) is available only for dry or HL filled gauges

\* A Steel, Stainless or chrome case & cover ring must be additionally ordered when lenses other than acrylic are utilized on all 100 Series.

\*\* Only 110 Series require a Steel, Stainless or chrome case & cover ring to be additionally ordered when utilizing a set pointer or cover ring.

Please consult factory when a set pointer is to be utilized on a 120 Series.

\*\*\* Other scales available on request

## EXAMPLE

20 - 110 - 100 - psi - 1/4 - BSC

Gauge size .....2"

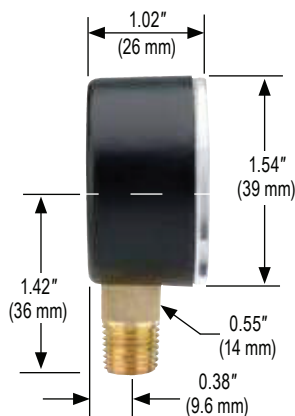
Case type .....ABS, back connection

Pressure range & scale option .....0 psi to 100 psi

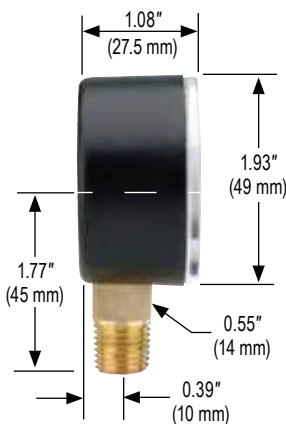
Connection size .....1/4" NPT

Option .....Black Steel Case

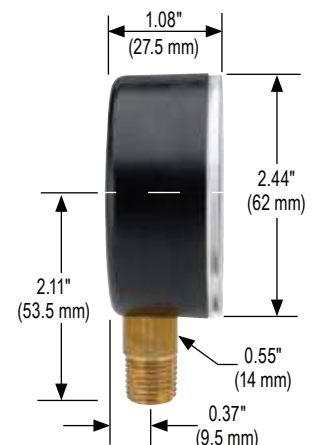
## 15-100



## 20-100

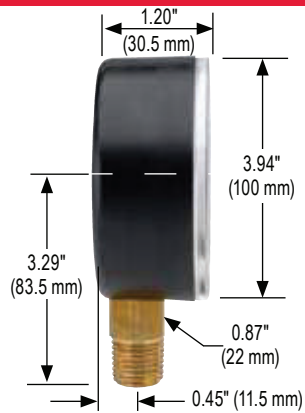


## 25-100

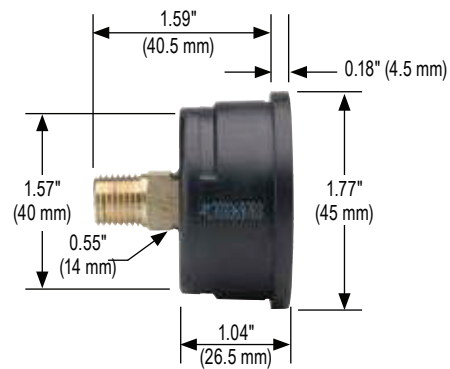


# Dimensions

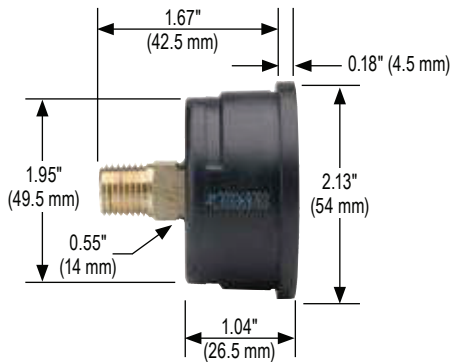
40-100



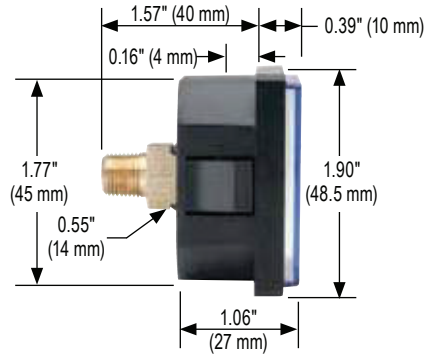
15-110



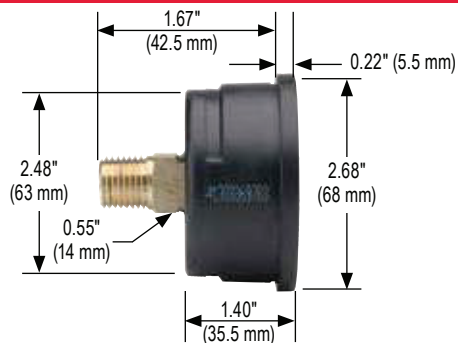
20-110



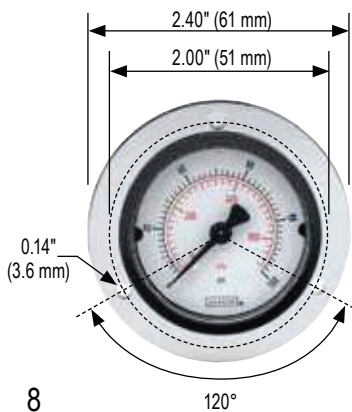
20-148



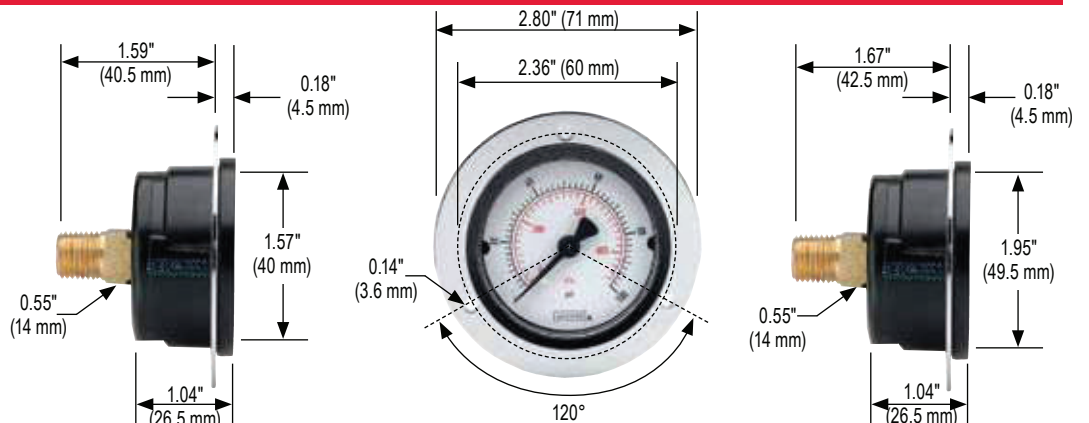
25-110



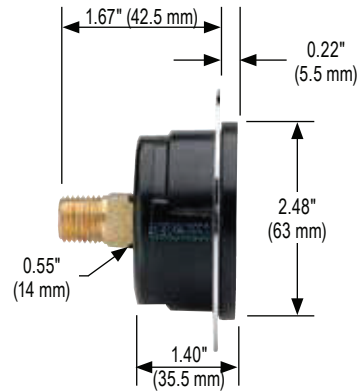
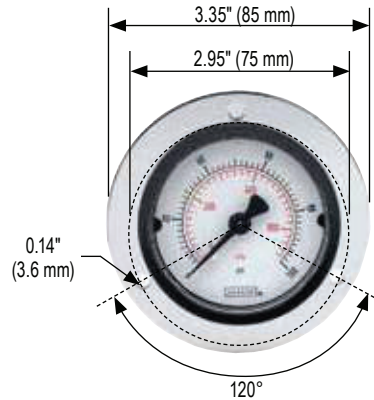
15-110 Front Flange



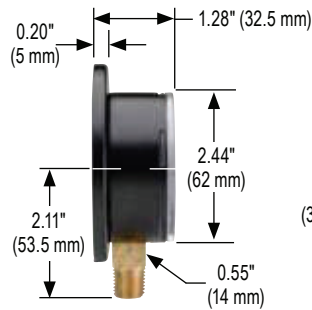
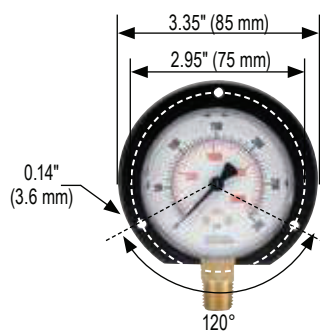
20-110 Front Flange



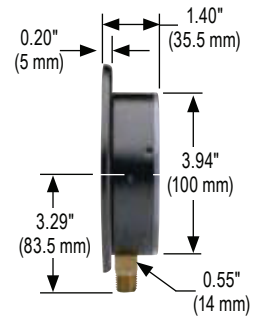
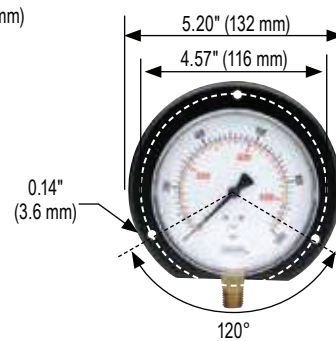
## 25-110 Front Flange



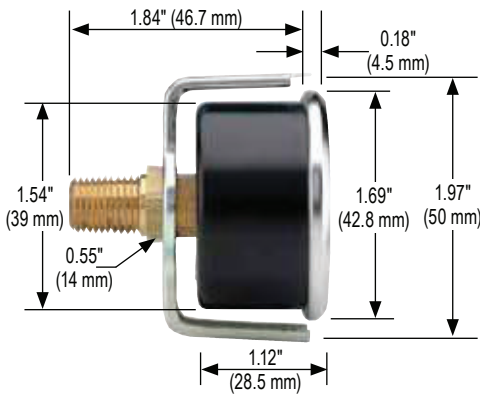
## 25-100 Rear Flange



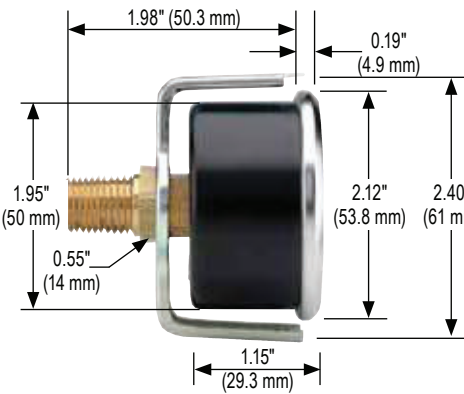
## 40-100 Rear Flange



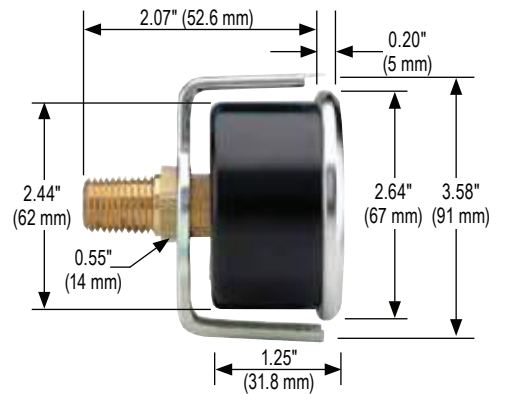
## 15-120 Chrome Bezel With U-Clamp



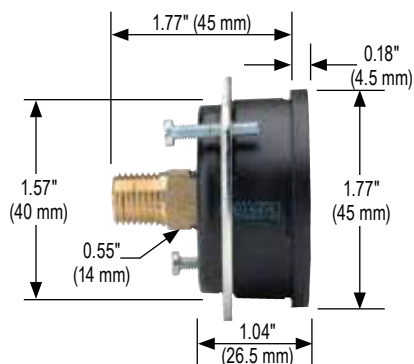
## 20-120 Chrome Bezel With U-Clamp



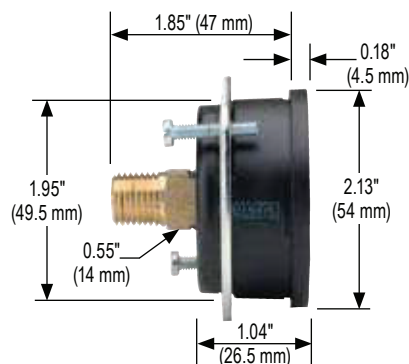
## 25-120 Chrome Bezel With U-Clamp



## 15-110 Panel Mount Clamp



## 20-110 Panel Mount Clamp



## 25-110 Panel Mount Clamp

