



Keeping the World Flowing for Future Generations

Features and benefits

- Round gauges are available in seven ranges with a maximum of 400 psig
- Mini strip gauges are available in four ranges with a maximum of 100 psig
- Receiver gauges are graduated from 0 to 100% for a 3 to 15 psig transmission range
- 1 1/2" gauges have a 1/8" NPT centre back connection
- 2" and 3 1/2" gauges have a 1/4" NPT centre back connection
- 1/2" mini strip gauges have a 1/8" hose barb connection

Operating principles

The Fairchild line of 1 1/2", 2", and 3 1/2" diameter gauges are designed for general use in applications that use gas or liquid medium that is compatible with the brass and brass alloy components in the gauge.

Mini strip gauges are designed for use in small panel mount applications. Both gauge styles include a receiver gauge configuration designed for the pneumatic transmission of process variables.

Specifications

Gauge accuracy

Round gauges

Lower third: ± 3%

Mid scale: ± 2%

Upper third: ± 3%

Mini strip gauges: 5% full scale

Standard gauges

| | | | |
|------------|----------|----------|----------|
| Diameter | 1 1/2" | 2" | 3 1/2" |
| Connection | 1/8" NPT | 1/4" NPT | 1/4" NPT |
| Mounting | Direct | Direct | Panel |

Mini-strip gauges

Connection 1/8" hose

Mounting Panel (vertical or horizontal)

Materials of construction

Standard gauges: Aluminum, phosphur bronze & stainless steel

Mini-strip gauges: Zinc-plated steel & brass



Pressure gauges

WARNING:

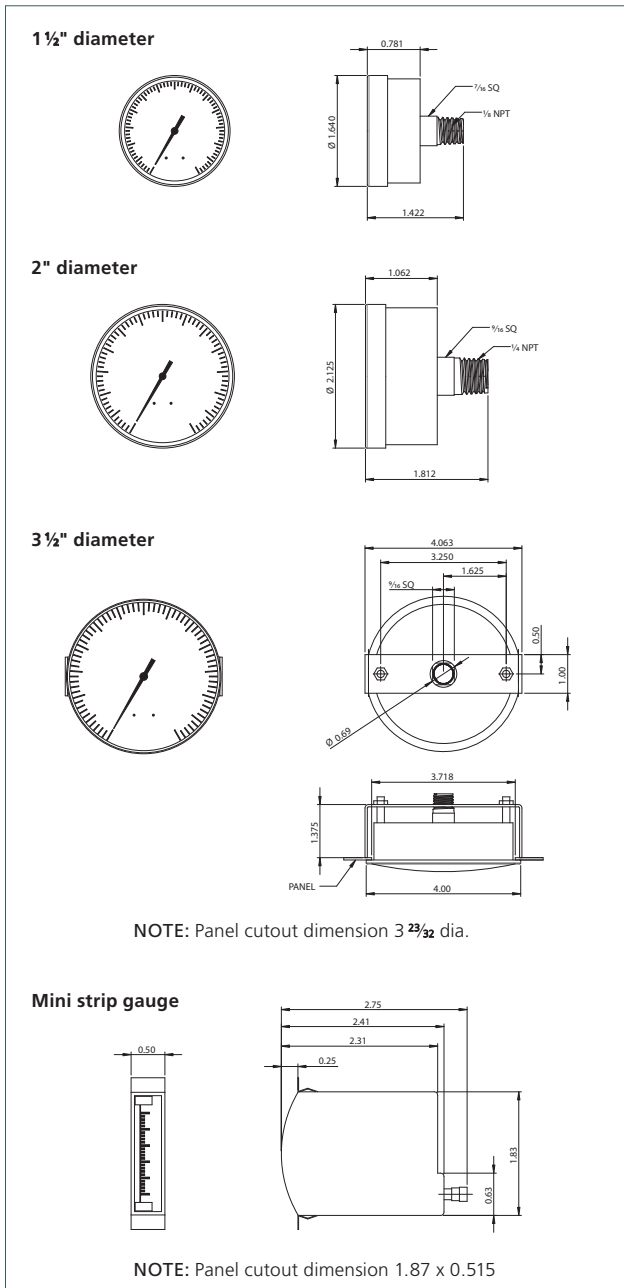
In order to reduce the risk of injury or damage resulting from improper use or application of pressure gauges, persons selecting and installing these devices should consult ANSI B40, which can be obtained from ASME (American Society of Mechanical Engineers). When selecting a gauge, consider the following factors:

1. **PRESSURE** – Gauge range should be about twice the intended operating pressure. Do not apply pressure beyond the top of the scale.
2. **VIBRATION** – Isolate the gauge from excessive vibration, which could cause movements, wear and loss of accuracy.
3. **PULSATION** – Consider a pulsation dampening device or a liquid-filled gauge to protect against fatigue failure of the pressure element or rapid movement wear.
4. **TEMPERATURE** – Do not position the gauge near sources of extreme heat, which might cause long-term creep of soldered joints and eventually failure.
5. **PROCESS** – Materials and parts under pressure should be resistant to the process fluid. This may require a diaphragm seal or a different pressure element material.

Consult the recommendations of ANSI B40 when selecting gauges for high pressure gas or potentially hazardous services, such as oxygen. Use only aluminum socket gauges on air or oil.



Dimensions (inches)



Product code

G - 15 2 1 R

G = 1½", 2", 3½" diameter

Gauge size

15 = 1½"
20 = 2"
35 = 3½"

Pressure range

| | psig | bar | (kPa) |
|---|--------------------------|----------|----------|
| 2 | = 0-15 ^{1,2,3} | [0-1.0] | (0-100) |
| 3 | = 0-30 ^{1,2,3} | [0-2.0] | (0-200) |
| 4 | = 0-60 ^{1,2,3} | [0-4.0] | (0-400) |
| 5 | = 0-100 ^{1,2,3} | [0-7.0] | (0-700) |
| 6 | = 0-160 ^{2,3} | [0-11.0] | (0-1100) |
| 7 | = 0-300 ² | [0-21.0] | (0-2100) |
| 8 | = 0-400 ² | [0-28.0] | (0-2800) |

Pipe size

1 = 1/8" NPT¹
2 = 1/4" NPT^{2,3}

Gauge type

R = Receiver^{3,4} (graduated 0-100%)

¹ Available on 1½" gauges.

² Available on 2" gauges.

³ Available on 3½" gauges.

⁴ Available on 15 psig, [1.0 bar], (100 kPa) only.

Product code

GS-10 2 2 PV

GS-10 = Mini strip

Pressure range

| | psig | bar | (kPa) |
|---|---------|---------|---------|
| 2 | = 0-15 | [0-1.0] | (0-100) |
| 3 | = 0-30 | [0-2.0] | (0-200) |
| 4 | = 0-60 | [0-4.0] | (0-400) |
| 5 | = 0-100 | [0-7.0] | (0-700) |

Pipe size

2 = 1/8" hose barb

Gauge type

PV = Plain vertical
PH = Plain horizontal
RV = Receiver vertical¹ (graduated 0-100%)
RH = Receiver horizontal¹ (graduated 0-100%)

¹ Available on 15 psig, [1.0 bar], (100 kPa) only.

A full listing of the Rotork sales and service network is available on our website.

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