

How to Select a Pressure Gauge

Range · Accuracy · Dial Size · Connection · Material · Filling — a practical guide by MANOGAUGE

Match **range**, **accuracy**, **dial size**, **connection**, **wetted material** and **case/filling** to your application.

1 · Range

Keep normal working pressure near **2/3 of full scale**: $\text{range} \approx \text{working pressure} \times 1.33$. For pulsating pressure use $\times 1.6$ + a liquid-filled gauge. Steady max should stay under 75% of full scale (65% cyclic).

2 · Accuracy Class

Accuracy Class (EN 837)	Error (% of span)	Typical Use
0.1 / 0.25	±0.1–0.25%	Test / calibration standards
0.5 / 0.6	±0.5–0.6%	Precision / lab
1.0	±1.0%	High-quality industrial
1.6	±1.6%	General industrial (common)
2.5	±2.5%	Standard / economical
4.0	±4.0%	Rough indication / small dials

3 · Dial Size

40 / 50 / 63 / 80 / 100 / 150 mm — larger = easier reading & higher accuracy; smaller = tight spaces & OEM.

4 · Connection

Thread standard + size (G, NPT, BSPT, M20×1.5...) and mounting (bottom / back / panel / flange). See our Thread Standards Guide.

5 · Wetted Material

- **Brass**: air, water, oil, non-corrosive media (economical).
- **316L stainless steel**: corrosive / harsh / hygienic environments.
- **Diaphragm seal**: viscous, crystallizing, highly corrosive or particle-laden media.

6 · Case & Filling

- **Dry**: general use. **Liquid-filled** (glycerine/silicone): vibration, pulsation, outdoor — dampens pointer, extends life.
- **SS case**: corrosion / washdown; **IP65+** for dust & water.

7 · Options

Explosion-proof (ATEX), electric-contact (alarm/switch), oxygen (oil-free), high/low temperature, snubber, custom dial & logo (OEM).

Checklist: Range · Accuracy · Dial size · Connection & mount · Wetted material · Dry/liquid-filled · Case & IP · Media & temperature · Options.
MANOGAUGE offers all of these with OEM/ODM — get help at www.manogauge.com.

About MANOGAUGE

MANOGAUGE (Zhejiang Xinzhongxin Instrument Technology Co., Ltd.) — a National High-Tech pressure gauge manufacturer in China: stainless steel, liquid-filled, digital, diaphragm, tire, medical and explosion-proof gauges, with CE/PED/ATEX/FDA and OEM/ODM service. More & quotes: www.manogauge.com | sales@manogauge.com. Free to share or cite — please keep the source link to www.manogauge.com.