

Pressure Gauge Size, Range & Accuracy Reference

Dial sizes · standard ranges · accuracy classes · filling & IP — quick reference by MANOGAUGE

Dial Sizes

Dial Size	Character	Typical Use
40 / 50 mm	OEM, panel, tight spaces	Compressors, extinguishers
63 mm	Most common small dial	Pneumatics, HVAC, general
80 / 100 mm	Easy reading, process	Industrial, process lines
150 mm	High readability / accuracy	Test, critical process

Accuracy Classes (EN 837-1, % of span)

Class	0.1	0.25	0.6	1.0	1.6	2.5	4.0
Error (±% span)	0.1	0.25	0.6	1.0	1.6	2.5	4.0

Example: a 0–100 bar gauge at class 1.6 has ±1.6 bar (1.6% of the 100 bar span).

Standard Ranges

Vacuum: -1–0 bar (-760–0 mmHg). **Compound:** -1–0–x bar. **Positive:** 0–1, 0–1.6, 0–2.5, 0–4, 0–6, 0–10, 0–16, 0–25, 0–40, 0–60, 0–100, 0–160, 0–250, 0–400, 0–600, 0–1000 bar (see our Conversion Chart for psi/kPa/MPa).

Case Filling

Glycerine (general vibration, ~ -20...+60°C), **Silicone oil** (wider / low temperature), **Dry** (no vibration).

Environmental

- **Ingress protection:** IP40 (dry) up to IP65 / IP66 (liquid-filled SS).
- **Operating temperature:** media & ambient limits vary by type; liquid-filled adds low-temp options.
- **Materials:** brass / 304 / 316L / 321; diaphragm seals for aggressive media.

Full specifications and datasheets for every gauge type: 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.