

Pressure Gauge Material Selection Guide

Wetted parts · case · window · movement · connection — by MANOGAUGE

Choosing the right materials for the **wetted parts, case, window, movement and connection** determines corrosion resistance, durability and cost. Match materials to your media and environment.

Wetted Parts (Bourdon tube + socket)

Material	Use
Brass / Cu-alloy	Air, water, oil, non-corrosive media (economical)
316L stainless steel	Corrosive media, harsh & hygienic environments
Monel / special alloys	Highly aggressive media (seawater, acids)
Diaphragm seal	Viscous, crystallizing or extremely corrosive media

Case · Window · Movement · Connection

Component	Options
Case	Painted steel · 304 SS · 316 SS (corrosion/washdown); radial or axial
Window	Glass · safety/laminated glass · PC (polycarbonate)
Movement	Brass or stainless steel
Connection	Brass or SS; G/PT/NPT 1/8–1/2, M10×1, M14×1.5, M20×1.5
Filling	Glycerine · silicone oil · antifreeze

Customized Stainless Steel Pressure Gauge

Customize according to different product sizes and usage scenarios



Radial-Stainless Steel Case



Axial-Stainless Steel Case



Movement



Internal Joints and Pipes



Stainless Steel Pressure Gauge
 Diameter: 40mm, 50mm, 63mm, 100mm, etc
 Accuracy: 1.0, 1.6
 Range: 0~1000kg/cm² psi, bar, kPa, mbar, etc as request
 Connector Material: Stainless steel
 Bourdon Tube material: 316L
 Window: Glass/Safety Glass/PC etc
 Connection Thread: G/PT/NPT 1/8 1/4 1/2, M10*1, M14*1.5, M20*1.5 etc
 mounting type: back or bottom connection, lower back connection, flange



Dial



Glycerin, Silicone Oil, Antifreeze, etc.



External Connection

Customizable components of a stainless steel pressure gauge (case, movement, joints, dial, filling, connection) — MANOGAUGE OEM/ODM

OEM / ODM: MANOGAUGE customizes case (radial/axial), dial (scale, logo, colors), window, connection thread, filling and mounting (back / bottom / lower-back / flange) to your spec — 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.