

PG800-28 28mm Ultra-Purity Pressure Gauge

Application Scenarios



Photovoltaic
Semiconductor



Gasbox - High-Purity Medium



High-Purity
Gas Delivery



Semiconductor Process Tools



28mm Ultra-Purity Pressure Gauge

Product Features

Sealing	Test	Packaging	Surface Treatment	Cleanliness
9/16-18 UNF/ C-Seal/ W-Seal	100% Helium Leak Testing	Vacuum Packag- ing in Class 100 Cleanroom	EP grade has a surface roughness of $Ra \leq 0.25\mu\text{m}$.	The residue of oil and mud is less than $150\text{mg}/\text{m}^2$, with EP grade being less than $50\text{mg}/\text{m}^2$.

Product Description

- The PG800-28 is a small-sized ultra-purity pressure gauge. The product adopts a diaphragm structure design, which effectively reduces internal irregular cavities, greatly ensuring cleanliness during cleaning, reducing contamination residues, and fully meeting the pressure measurement needs of semiconductor, photovoltaic, and special gas pipelines.
- The PG800-28 features a 28mm diameter structure, with a standard configuration of 9/16-18UNF. It is also available with C-Seal and W-Seal options to better meet semiconductor requirements.
- The product undergoes 100% leak testing during production to meet industry sealing requirements, preventing the risk of leakage of flammable, explosive, corrosive, or toxic media.
- The product is manufactured entirely in a Class 100 cleanroom, vacuum-packaged, and 100% cleaned to meet SEMI standards.
- It has a wide measurement range of -30inHg to 160psi, with custom ranges available upon request.

Technical Specifications



Gauge Diameter

1.125" (28mm)



Accuracy Grade

NS 1.125": C Grade, compliant with ASME B40.1 standard



Measurement Sensitive Element

Measurement Element: Nickel-Based Alloy
Sealing: Leakage Rate $\leq 10^{-10}$ kPa.l/s
Measurement Method: Helium Spectrometry



Measurement Range

-30inHg~30psi, -30inHg~60psi,
-30inHg~0~100psi, -30inHg~0~160psi



Temperature Performance

When the temperature changes within the measurement system, it is based on the standard reference temperature + 20°C.



Process Connection

Material: SUS316L
Axial (CBM)
With external nut or 9/16-18UNF external thread
C-Seal / W-Seal



Protection Level

IP54 per EN 60529 / IEC 529



Case

SUS304, Electroplated



Dial

Single Scale, Pointer Positioning Pin
Oil-free Oxygen-Specific Mark

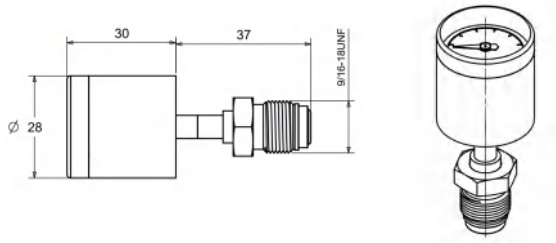


Cleanliness Grade

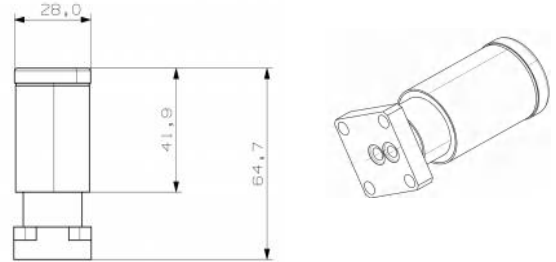
According to SEMI standards, special circumstances

Specifications and Dimensions

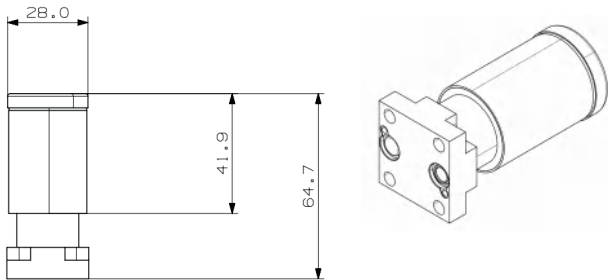
Standard NS 1.125" (28mm)



Standard NS 1.125" (28mm) - C-Seal



Standard NS 1.125" (28mm) -W-Seal



Thread

- M Male 9/16-18 UNF
- F Female 9/16-18 UNF
- WS11 1.125" W-Seal
- CS11 1.125" C-Seal
- YY Customized

Special Requirements

- YY Customized

Dial Diameter

28 1.125" (28mm)

10

Surface Treatment

- EP EP Level

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Mounting Method

- B Axial

30

40

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PG800 28mm Ultra-Purity Pressure Gauge

Selection Rules:

Requirement: Range -30~100psi, dial diameter 1.125" (28mm), EP grade, axial, 9/16-18 UNF male thread

Selected Model: PG800-28EPBM -30~100psi