

PG800-28 28mm UHP Pressure Gauge

Application Scenarios



Semiconductor /Photovoltaic



Gasbox - UHP Medium



UHP Gas Distribution



Semiconductor Process Tools



28mm UHP Pressure Gauge

Product Features

Sealing	Testing	Packaging	Treatment	Cleanliness
9/16-18UNF, C/W-Seal	100% Helium Leak Testing	Vacuum Packaging in Class 100 Cleanroom	Process connection EP level: Ra ≤ 0.25 µm	Oil sludge residue below 150mg/m ² , EP grade below 50mg/m ²

Product Description

- PG800-28 is a compact ultra-pure pressure gauge. The product features a diaphragm-type structural design that minimizes internal irregular cavities, significantly improving cleanliness during washing and reducing contamination residues. It is fully suitable for pressure measurement in semiconductor, photovoltaic, and specialty gas pipeline applications.
- The PG800-28 features a 28 mm diameter structure with a standard 9/16-18 UNF connection, and optional C-Seal or W-Seal configurations for enhanced compatibility with semiconductor application requirements.
- Each product undergoes 100% leak testing 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, undergoes 100% ultra-clean washing, and is vacuum-packaged to fully meet SEMI standards.
- It offers a wide measurement range from -30 inHg to 160 psi, and special custom ranges are also available upon request.

Technical Specifications



Dial Diameter

1.125" (28mm)



Measure Range

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



Accuracy Grade

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



Temperature Performance

When the temperature of the measurement system changes, performance is referenced to the standard ambient temperature of +20 °C.



Sensing Element

Sensing Element: Nickel-based Alloy
Leak Rate: $\leq 1 \times 10^{-10}$ Pa.m³/s
Method: Helium Spectroscopy



Process Connection

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



Protection Grade

IP54 per EN 60529 / IEC 529



Housing

SUS304, Electrolytic Finish



Dial

Single Scale, Pointer Positioning Pin
Oil-Free Mark-For Oxygen Service Only

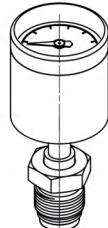
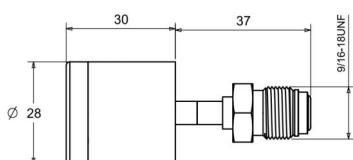


Cleanliness Level

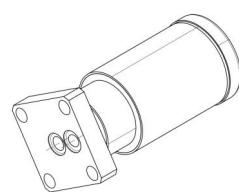
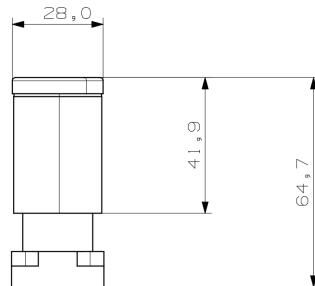
Special Cases According to SEMI Standards

Dimensions

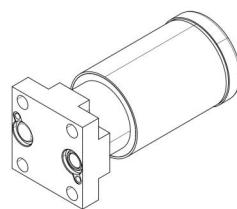
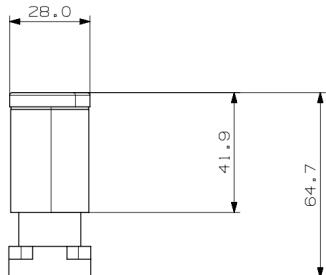
■ Standard Structure: NS 1.125" (28 mm)



■ Standard Structure: NS 1.125" (28 mm) - C-Seal



■ Standard Structure: NS 1.125" (28 mm) - 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

Special Requirement

Dial Diameter	Surface Treatment	Mounting Method	Thread	Special Requirement
28 1.125"(28mm)	EP EP Level	B Axial	YY Customized	YY Customized
10	20	30	40	50

PG800 28mm UHP Pressure Gauge

Selection Example:

Requirement: -30 to 100 psi; 1.125" (28 mm); EP Grade; Axial; 9/16-18 UNF Male Thread

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

Dimensions are for reference only. Actual product dimensions may vary.