

# 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 <sup>2</sup> , EP grade below 50mg/m <sup>2</sup>

## 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)



### Accuracy Grade

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



### Sensing Element

Sensing Element: Nickel-based Alloy  
Leak Rate:  $\leq 1 \times 10^{-10}$  Pa.m<sup>3</sup>/s  
Method: Helium Spectroscopy



### Measure Range

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



### Temperature Performance

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



### 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

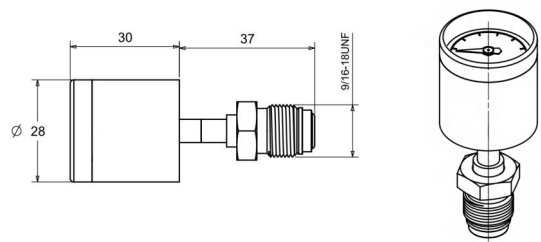


### Cleanliness Level

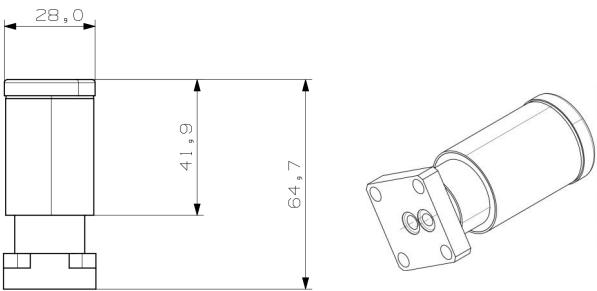
Special Cases According to SEMI Standards

Dimensions

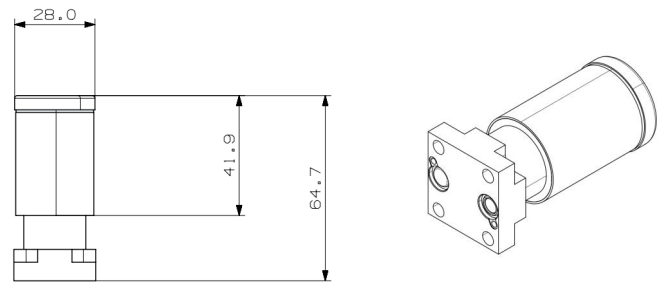
Standard Structure: NS 1.125" (28 mm)



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
- YY Customized

Special Requirement

- YY Customized

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

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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.