$\phi$ 35,  $\phi$ 40

# GW35 · 45 Pressure Gauge for Semiconductor Industry

## Outline

GW35 and GW45 are designed for offering excellent performance even with highly pure semiconductor gas process media or in environmental atmosphere surrounded by corrosive gas. These gauges are suitable for the use in semiconductor process application, especially for highly-pure process media measurement with great care of air-tightness and air-cleanliness.

# **Features**

- Primarily internal components (Bourdon tube, socket, case and movement etc.) are made of stainless steel to resist to corrosion both against process media and environmental atmosphere.
- •The wetted parts like pressure sensing element are welded by argon arc welding and manufactured under strict quality controls inspecting proof pressure and air-tightness.
- \*To maximize performance, please select the pressure range with your common operating pressure should be 30 to 65% of the pressure range. Furthermore, please ensure that the wetted parts materials listed are suitable for the use against measuring gas or liquid.



# List of grade

Grade	<b>BA</b> (Bright Annealing)	<b>EP</b> (Electro Polishing)
Wetted parts material	SUS316L	SUS316L (Gas contact surface polished)
Cleaning level	Class IV (ANSI B40, 1M-1979)	10 and under particles of 0.2 $\mu$ m or greater
Leak test	1.01×10⁻⁰ Pa⋅m³/s and under	
Cleaning	① Coarse cleaning ② Ultrasonic cleaning ③ Finish cleaning ④ N₂ gas flushing	
Work area	① General work area ② Clean room (Class 10,000) ③ Clean bench (Class 100)	
Adjustment test media	N₂ gas	
Packing form	Sealed polyethylene bag	

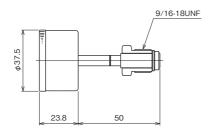
# Specification

Item	Description	
Fluid	Air or liquid	
Mounting	Back connection··· D-frame (Center back screw, stem)	
Size	φ35 (Model: GW35) φ40 (Model: GW45)	
Connection	9/16-18UNF	
Material	Bourdon tube, Connecting part SUS316L Case SUS304 Movement SUS	
Enclosure	Indoor use	
Welding	Argon arc welded	
Pressure range	0 to 0.4MPa → 0 to 3.5MPa -0.1 to 0.3MPa → -0.1 to 2MPa	
Operating temperature	-5 to 45°C	
Accuracy	±3%F.S.	
Leakage (Helium leak rate)	1.01 × 10 <sup>-9</sup> Pa ⋅ m³/s and under	
Cleaning level	EP Grade: 10 particles and under with the diameter 0.2 μm or greater. BA Grade: Class IV (ANSI B40, 1M-1979)	
Weight	φ35: Approx. 75 g φ40: Approx. 90 g	

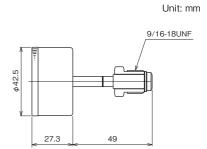
# Dimensions

## GW35-1E



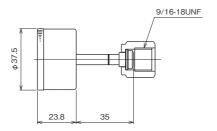




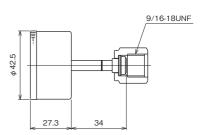


GW35-1G□



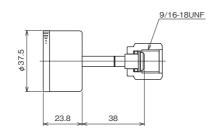






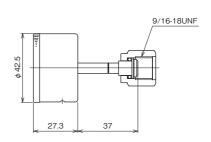
GW35-1Q□





GW45-1Q□

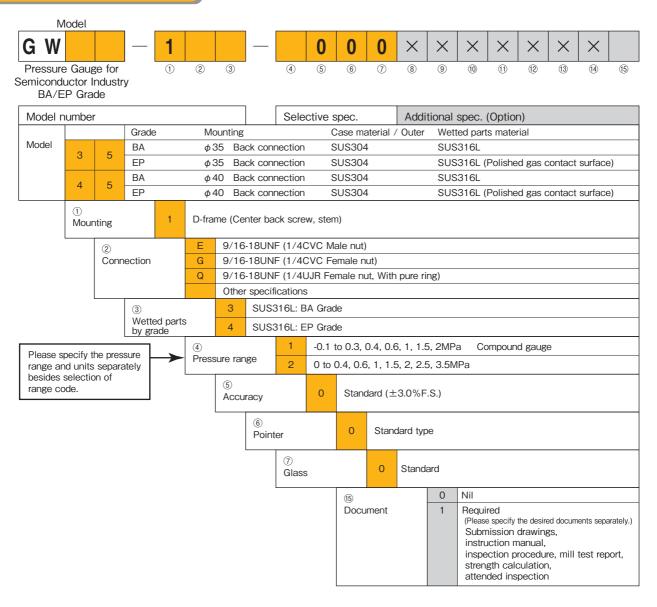




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## Model number configuration

Please specify the model number, each specs and the range for ordering.



<sup>\*</sup>Specify "X" if there is no%pecification item.