

# Pressure Gauge with mounted Diaphragm Seal

for Ultra High Purity Industry  
**Model 232.35**  
 with **Model 990.80**

## Pressure Systems

### Application

Pressure measurement in liquid fluid media for semiconductor and other ultra high purity applications that require isolation of the pressure indication device from the media flow. Isolation may be required due to abrasive or pure media that requires electropolished surfaces. Typical applications are solvent delivery and recovery systems and chemical mechanical polishing applications.

### Design

Pressure gauge mounted directly to diaphragm seal.  
 Diaphragm seal upper housing welded with lower housing.

### Pressure rating

70 bar resp. 1000 psi

### Operating temperature

4 °C ... 60 °C (40 °F to 140 °F)

### Process connection (diaphragm seal)

¼" FFFS (fixed female face seal)  
 wetted parts material: stainless steel 316 L, electropolished

### Filling liquid

50/50 Mix Semiconductor Grade IPA (Isopropyl Alcohol) /  
 DI Water (KN 75)

### Standard features (pressure gauge)

Recommended bourdon tube pressuer gauge Model 232.35

### Nominal size

63 mm (2½")

### Accuracy

2/1/2% of span (ASME B 40.1 Grade A) in compliance with  
 accuracy class 1.6 per EN 837-1 /6

### Scale ranges

0 ... 1 to 0 ... 70 bar (EN 837-1 /5)  
 0 ... 15 to 0 ... 1000 psi (ASME B 40.1)  
 or other equivalent units of pressure or vacuum

### Movement

Stainless steel

### Dial

White aluminium, with pointer stop pin, with black lettering

### Pointer

Black aluminium pointer

### Case

Stainless steel, with solid baffle wall (solid front) and blow-out back

### Window

Laminated safety glass

### Bezel ring

Cam ring (bayonet type), stainless steel



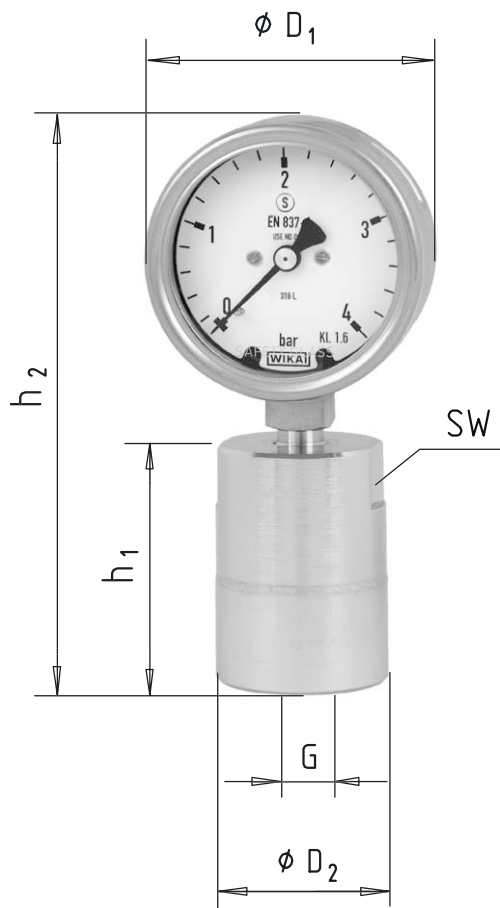
Pressure gauge Model 232.35 with mounted diaphragm seal  
 Model 990.80

### Optional extras

- Process connection ¼ NPT female
- Special material Hastelloy C 276
- Alarm contacts for gauge
  - Inductive contact (**Model 831**)
- Dial for gauge dual pressure scale (psi/bar) with black/red lettering

To determine the effects of temperature and response time in a specific application, contact the factory for an **Application Questionnaire**. The information provided will allow WIKA Technical Support to accurately model your application parameters using state-of-the-art computer simulation techniques.

**Dimensions**  
**Standard version**



Process connection	Dimensions [mm]					Weight [kg]
	D <sub>1</sub>	D <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>	SW	
G						
¼" FFFS	63	40	55	129	36	approx. 0.7
¼" NPT female	63	40	51	125	36	approx. 0.6

**Ordering information**

State:  
 Pressure gauge model / Nominal size / Scale range / Diaphragm seal model / Process connection / Filling liquid / Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



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