

“EB” 90mm Sanitary Pressure Gauge

Introduction

The 90mm Anderson-Negele “Life Science Series” gauge is the standard pressure gauge of choice for applications in the Life Sciences industry. It is designed to meet the most stringent of specifications, including those for accuracy, surface finish, and temperature stability. These gauges are particularly appropriate when the process line or equipment will be steam sterilized. The unfilled version can even be completely autoclaved while on the equipment.

A few of the unique features of this gauge include the electropolished diaphragm and standard re-zero feature, along with a special polysulfone crystal that withstands autoclave temperatures as well as cleaning chemicals that readily etch other lenses. Each gauge is shipped with a certificate of calibration, your assurance that it has been calibrated to the most exacting tolerances.

Detailed specifications and ordering information can be found on the reverse, or by visiting our website at www.anderson-negele.com

Features

- Polysulfone crystal remains clear; withstanding autoclave temperatures and harsh chemicals
- Mechanical dampening available for high pulsation/vibration applications
- Suitable for SIP and autoclave applications



Specifications

PERFORMANCE

Calibrated Accuracy: ± 0.75% of full scale, from 10%-90% of range (pressure ranges)
 ± 0.75% of full scale, from 25" vacuum to 90% of pressure range (compound ranges)

Repeatability: ± 0.25% of full scale

Hysteresis: ± 0.25% of full scale

Linearity: ± 0.25% of full scale

Operating Temperature Limits (process): 25 to 250°F (-3 to 121°C)

Ambient Temperature Limits: 40 to 120°F (4 to 49°C)

In-line Steam Sterilization Limits: Up to 300°F (149°C) for 1 hour

Autoclave Sterilization Limits: Up to 300°F (149°C) for 1 hour (unfilled case only)

Temperature Effect: ± 0.16% /10°F change in process or ambient temperature

Stability: Within specified accuracy for 6 months under normal operating conditions. Calibration check recommended at 3 month intervals for gauges being steam sterilized or autoclaved

Over-range Capability: 10% of span

CONSTRUCTION/FINISH

All Product Contact Surface (Diaphragm and fitting): Welded 316L stainless steel, electropolished
 Maximum Ra= 8 microinches (.2 microns)

Case and Stem: Welded 304 stainless steel polished

Crystal: Polysulfone, .080" minimum thickness, corrosion resistant

Dial: 3.50 inch diameter (90 mm); pressure sensitive adhesive

Standards: Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC

Environmental Rating: NEMA 4X, IP-66

OPERATIONAL

Capillary (internal) Fill: 80% glycerine (food grade) / 20% USP deionized water

Re-zero Feature (standard): Tamper-resistant; ± 5% of span, non-interactive with span

Response Characteristics (Typical): Unfilled: 40% (Gauge dampens 40% of pulsation)

Mechanically Dampened: 95%

Order Information

