

## **Product Information - EB**

# LIFE SCIENCES

# "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



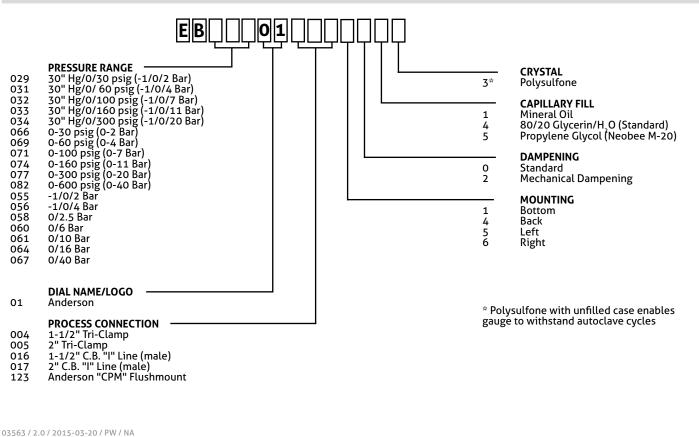


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#### Specifications

| PERFORMANCE                             |  | CONSTRUCTION/FINISH                 |   |
|---|--|-------------------------------------|---|
| Calibrated Accuracy:                    | ± 0.75% of full scale, from 10%-90% of<br>range (pressure ranges)            | All Product Contact Su              | rface (Diaphragm and fitting):<br>Welded 316L stainless steel,              |
|   | $\pm 0.75\%$ of full scale, from 25" vacuum to                               |                                     | electropolished   |
|   | 90% of pressure range (compound ranges)                                      |                                     | Maximum Ra= 8 microinches (.2 microns)                                      |
| Repeatability:                          | ± 0.25% of full scale  | Case and Stem:                      | Welded 304 stainless steel polished   |
| Hysteresis:                             | ± 0.25% of full scale  | Crystal:                            | Polysulfone, .080" minimum thickness,                                       |
| Linearity:                              | ± 0.25% of full scale  | ,                                   | corrosion resistant   |
| Operating Temperature Limits (process): |  | Dial:                               | 3.50 inch diameter (90 mm); pressure  |
| ۸ h : د T د د                           | 25 to 250°F (-3 to 121°C)  | Standards:                          | sensitive adhesive  |
| Ambient Temperature                     | 40 to 120°F (4 to 49°C)  | Standards:                          | Designed and manufactured to sound  |
| In-line Steam Sterilization Limits:     |  |                                     | engineering practices in accordance with<br>Article 3.3 of the PED 97/23/EC |
|   | Up to 300°F (149°C) for 1 hour   | Environmental Rating                |   |
| Autoclave Sterilization Limits:         |  |                                     |   |
|   | Up to 300°F (149°C) for 1 hour (unfilled case                                | OPERATIONAL                         |   |
|   | only)  | Capillary (internal) Fil            | : 80% glycerine (food grade) / 20% USP                                      |
| Temperature Effect:                     | ± 0.16% /10°F change in process or ambient                                   |                                     | deionized water   |
|   | temperature  | Re-zero Feature (standard):         |   |
| Stability:                              | Within specified accuracy for 6 months<br>under normal operating conditions. |                                     | Tamper-resistant; ± 5% of span, non-<br>interactive with span               |
|   | Calibration check recommended at 3 month                                     | Response Characteristics (Typical): |   |
|   | intervals for gauges being steam sterilized                                  | ·                                   | Unfilled: 40%   |
|   | or autoclaved  |                                     | (Gauge dampens 40% of pulsation)  |
| Over-range Capability: 10% of span      |  | Mechanically Dampened: 95%          |   |
|   |  |                                     |   |

#### **Order Information**



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