

PRESSURE
TEMPERATURE
LEVEL
INSTRUMENTATION
FLOW
ANALYTICAL

## "EM-Series" 90mm Sanitary Pressure Gauge

- The industry's only externally adjustable span and offset
- Designed specifically for SIP and autoclave applications
- Lowest/most narrow profile of any sanitary gauge
- Custom pinstamped markings available
- Available clean for oxygen service

The best just got better! With our redesigned 90mm sanitary pressure gauge, Anderson Instrument has raised the bar relative to performance, reliability, and ease of use.

Customers in the Pharmaceutical and Biotech market will recognize at a glance that we've maintained all our unique features like all-welded construction, electro-polished wetted parts, and standard calibration certifications. They'll also appreciate the new, compact profile that fits virtually anywhere while still maximizing readability. But what really

sets this gauge apart is the new offset adjustment that comes as a standard feature on every Pharmaceutical series gauge. Rear-mounted and unobtrusive, we even provide a special tool for the optional span adjustment so it's tamper-proof.

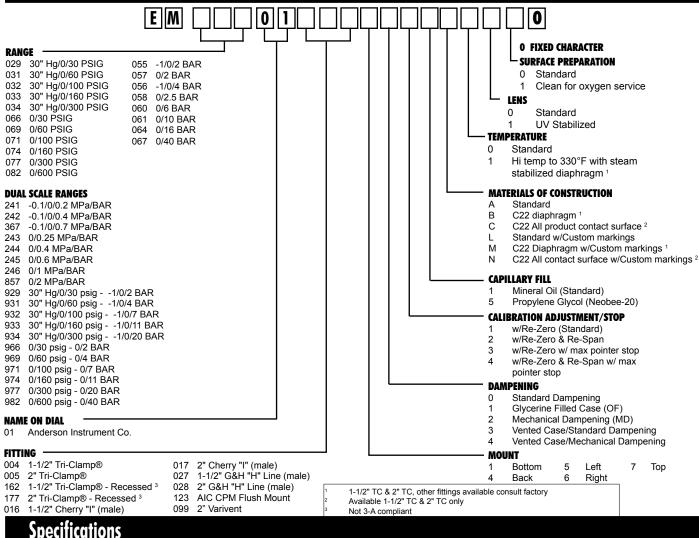
Complete specifications and ordering information are available on the reverse. For more information contact our Customer Service Department at 1-800-833-0081, or visit our website at www. andinst.com.

## **APPLICATIONS**

- Fermentation
- Filtration
- All sanitary pressure dependent processes



# Complete Product Ordering Matrix



**Typical Performance** 

Over-Range Capability: at least 25% over range

Calibrated Accuracy: ± .75% F.S. from 10-90% of range

Repeatability: ± .25% of full scale Linearity: +.25% of full scale ±.25% of full scale Hysteresis:

Stability: Within specified accuracy for 6 months under normal operating conditions.

Process Temperature Limits: -20° to 300°F (-29° to 149°C) option to 330°F (166°C) 40° to 120°F (4° to 49°C) **Ambient Temperature Limits:** 

250°F (121°C) continuous CIP Temperature Limit: SIP Temperature Limit: 300°F (149°C) continuous Autoclave Temperature Limit: 300°F (149°C) for one hour (unfilled case only)

Temperature Effect: Less than 0.06 psi per 10°F change in process or ambient temperature

-22°F to 195°F (-30°C to 91°C) Storage Temperature Limits: -22°F to 250°F (-30°C to 121°C)\*

Vented Case

## Construction/Finish

All Product Contact Surface (Diaphragm and fitting):

Welded 316L stainless steel, electropolished. Maximum R<sub>3</sub>= 8 microinches (.2 microns). Bourdon Tube/Socket Bronze bourdon/brass socket with silver soldered

Construction: connections. Movement Mechanism: Brass

Case/Stem: Welded 304 stainless steel (polished).

Adhesive-backed printed Mylar in various scales, Dial:

90mm diameter min.

Corrosion resistant polysulfone able to withstand 325°F Lens/Dial Plate Optional lens: UV Stabilized polycarbonate (not suitable for autoclave) 304 stainless steel, polished, compression formed to Bezel:

case (non-removable). Viewing Angle: 100 degrees minimum.

Clean for Oxygen Service:Optional, product contact surfaces prepared per

Compressed Gas Association G4.1

### Operational

100% mineral oil. Meets FDA requirements Actuating Fill:

(21CFR, 172.878 and 178.3620(a))

Neobee-20 optional.

Optional, glycerine 100% USP Food Grade. Case Fill: Mechanical Dampening: Optional. Standard and case filled gauges

dampened to 25% to 50%. Mechanical dampening

dampens 50% to 80% of pressure variations.

Re-Zero Adjustment: Tamper resistant adjustment, +/-5% of

span. Non interactive with span. External

adjustment integrally located on back of case. Externally accessible with tool (AIC #4523800000)

Re-Span Adjustment: through rear of case. Adjustment up to +/-5%

of span.

Designed and manufactured to sound engineering Standards: practices in accordance with Article 3.3 of the

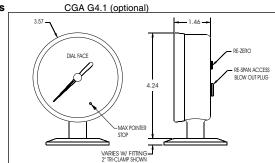
PED 97/23/EC.

Designed and tested in accordance with

ASME B40.100. NEMA 4X, IP-66

CSA B51-03, CRN# CSA0F9754.5C

**Dimensions** 



FORM AIC5017 © January 2004 Revised: November 2012 Supersedes: September 2012