

"EL" Extended Life 3-1/2" (90mm) Pressure Gauge

Introduction

Anderson-Negele's "EL" Gauge was designed with one criteria in mind – reliability. Sanitary pressure gauges are subjected to repeated process and environmental abuse in the form of vibration, pulsation, harsh cleaning chemicals, wide temperature and humidity swings. We've designed this product from the ground up to be the toughest, most reliable gauge for any sanitary application up to 1,000 psig. With over 30 years of experience building and repairing hundreds of thousands of gauges from a dozen different suppliers, we've identified and addressed all these key causes of premature failure in food, dairy, and beverage processing applications.

What's more, the "EL" has undergone the most extensive reliability tests of any Anderson product, both in the field on customer's toughest applications, and in accelerated tests that equate to years of constant pressure, temperature, and cleaning cycles. And because we designed it from the ground up, we targeted and achieved a new benchmark for size, producing the lowest, narrowest profile in the industry, with no sacrifice in readability or performance.

The "EL" will fit in your tightest application, and last in your toughest. Our standard 2-3 day delivery will insure you can get it when you need it.

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

Authorizations



Features

- Stainless steel, all-welded design for corrosion, shock and vibration resistance
- Mechanical dampening or traditional case-fill for high pulsation/vibration applications
- Unique case/bezel design yields low, narrow profile, and optimum crystal protection
- 3-A compliant; Third party verified

Applications

- Pasteurization
- Process Lines
- Filtration
- All Sanitary Pressure
- Dependent Processes



Specifications

TYPICAL PERFORMANCE

Over-Range Capability: at least 25% over range
 Calibrated Accuracy: ± 1.5% F.S. from 10-90% of range
 Repeatability: ± .5% of full scale
 Linearity: ± .5% of full scale
 Hysteresis: ± .5% of full scale
 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)
 Ambient Temperature Limits: 40° to 120°F (4° to 49°C)
 CIP Temperature Limit: 250°F (121°C) continuous
 SIP Temperature Limit: 300°F (149°C) continuous
 Temperature Effect: Less than 0.06 psi per 10°F change in process or ambient temperature
 Storage Temperature Limits: -22°F to 195°F (-30°C to 91°C)

CONSTRUCTION/FINISH

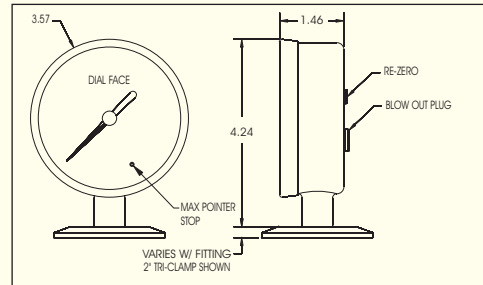
All Product Contact Surface (Diaphragm and fitting): Welded 316 "L" grade stainless steel, polished
 Max. Ra=25 microinches
 Bourdon Tube/Socket: Bronze bourdon/brass socket with silver soldered connections
 Construction: Brass
 Movement Mechanism: Brass
 Case/Stem: Welded 304 stainless steel (polished)
 Dial: Adhesive-backed printed Mylar in various scales, 90mm diameter minimum
 Lens/Dial Plate: Corrosion resistant polysulfone, able to withstand 325° Fahrenheit
 Optional lens: UV Stabilized polycarbonate (not suitable for autoclave)
 Bezel: 304 stainless steel, polished, compression formed to case (non-removable)

Viewing Angle: 100 degrees minimum
 Clean for Oxygen Service: Optional, product contact surfaces prepared per Compressed Gas Association G4.1

OPERATIONAL

Actuating Fill: 100% mineral oil. Meets FDA requirements (21 CFR, 172.878 and 178.3620(a)) Neobee-20 optional
 Case Fill: Optional, glycerine 100% USP Food Grade
 Mechanical Dampening: Optional. Standard and case filled gauges dampened 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 located on back of case.
 Standards: 3-A compliant, third party verified
 Designed and manufactured to sound engineering 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
 CGA G4.1 (optional)

DIMENSIONS:



Order Information



RANGE

- 029 30" Hg/0/30 psig 055 -1/0/2 BAR
- 031 30" Hg/0/60 psig 056 -1/0/4 BAR
- 032 30" Hg/0/100 psig 057 0/2 BAR
- 033 30" Hg/0/160 psig 192 0/4 BAR
- 034 30" Hg/0/300 psig 309 0/7 BAR
- 066 0/30 psig 337 0/11 BAR
- 069 0/60 psig 065 0/20 BAR
- 071 0/100 psig 067 0/40 BAR
- 074 0/160 psig
- 077 0/300 psig 245 0/0.6 MPa/BAR
- 082 0/600 psig

DUAL SCALE RANGES

- 929 30" Hg/0/30 psig - -1/0/2 BAR
- 931 30" Hg/0/60 psig - -1/0/4 BAR
- 932 30" Hg/0/100 psig - -1/0/7 BAR
- 933 30" Hg/0/160 psig - -1/0/11 BAR
- 934 30" Hg/0/300 psig - -1/0/20 BAR
- 966 0/30 psig - 0/2 BAR
- 969 0/60 psig - 0/4 BAR
- 971 0/100 psig - 0/7 BAR
- 974 0/160 psig - 0/11 BAR
- 977 0/300 psig - 0/20 BAR
- 982 0/600 psig - 0/40 BAR

NAME ON DIAL

- 01 Anderson Instrument Co.

FITTINGS

- 004 1-1/2" Tri-Clamp® 048 1-1/2" #15 Bevel Seat (threaded male)
- 005 2" Tri-Clamp® 049 2" #15 Bevel Seat (threaded male)
- 162 1-1/2" Tri-Clamp® - Recessed ²
- 177 2" Tri-Clamp® - Recessed ²
- 006 2-1/2" Tri-Clamp® 050 2" Cherry "I" Aseptic (male)
- 007 3" Tri-Clamp® 051 1-1/2" APC K15WXF (female) Self-Aligning
- 010 1-1/2" APC "K" 052 2" APC K15WXF (female) Self-Aligning
- 011 2" APC "K" 059 1-1/2" NPT ²
- 016 1-1/2" Cherry "I" (male) 099 2" Varivent
- 017 2" Cherry "I" (male)
- 022 1-1/2" Val-Line (male) 107 1-1/2" ISS (female, no nut)
- 023 2" Val-Line (male) 109 38mm SMS Liner (female) ²
- 027 1-1/2" G&H "H" Line (male) 110 51mm SMS Liner (female) ²
- 028 2" G&H "H" Line (male) 115 40mm DIN 11851 (Milk Coupling) ²
- 032 1-1/2" Cherry "Q" 123 AIC CPM Flush Mount
- 033 2" Cherry "Q" 129 38mm IDF (female) with customer supplied nut ²
- 034 1-1/2" APC-PV w/ 13-H nut
- 035 2" APC-PV w/ 13-H nut
- 043 2" #15 APC (threaded male)
- 044 1-1/2" #14 Bevel Seat w/ 13-H nut
- 045 2" #14 Bevel Seat w/ 13-H nut
- 131 51mm IDF (female) with customer supplied nut ²
- 124 50mm DIN 11851 (Milk Coupling) ²

0 FIXED CHARACTER

SURFACE PREPARATION

- 0 Standard
- 1 Clean for oxygen service

LENS

- 0 Standard
- 1 UV Stabilized

TEMPERATURE

- 0 Standard
- 1 Hi temp to 330°F with steam stabilized diaphragm ¹

MATERIALS OF CONSTRUCTION

- A Standard
- B C22 diaphragm ¹
- L Standard w/Custom markings
- M C22 Diaphragm w/Custom markings ¹

CAPILLARY FILL

- 1 Mineral Oil (Standard)
- 5 Propylene Glycol (Neobee-M20)

CALIBRATION ADJUSTMENT/STOP

- 1 Re-Zero (Standard)
- 3 Re-Zero w/max pointer stop

DAMPENING

- 0 Standard Dampening
- 1 Glycerine Filled Case (OF)
- 2 Mechanical Dampening (MD)

MOUNT

- 1 Bottom 5 Left 7 Top
- 4 Back 6 Right

¹ 1-1/2" TC & 2" TC, other fittings available consult factory

² Not 3-A Compliant

