



FLOW
LEVEL
PRESSURE
ANALYTICAL
TEMPERATURE
INSTRUMENTATION
PASTEURIZATION CONTROLS

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

- *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 in accordance with standard 74-03*

Anderson'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.andinst.com.

APPLICATIONS

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



Complete Product Ordering Matrix



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

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|--------------------------------|
| 004 1-1/2" Tri-Clamp® |
| 005 2" Tri-Clamp® |
| 006 2-1/2" Tri-Clamp® |
| 007 3" Tri-Clamp® |
| 010 1-1/2" APC "K" |
| 011 2" APC "K" |
| 016 1-1/2" Cherry "I" (male) |
| 017 2" Cherry "I" (male) |
| 022 1-1/2" Val-Line (male) |
| 023 2" Val-Line (male) |
| 027 1-1/2" G&H "H" Line (male) |
| 028 2" G&H "H" Line (male) |
| 032 1-1/2" Cherry "Q" |
| 033 2" Cherry "Q" |
| 034 1-1/2" APC-PV w/ 13-H nut |

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|--|
| 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 |
| 048 1-1/2" #15 Bevel Seat (threaded male) |
| 049 2" #15 Bevel Seat (threaded male) |
| 050 2" Cherry "I" Aseptic (male) |
| 051 1-1/2" APC K15WXF (female) Self-Aligning |
| 052 2" APC K15WXF (female) Self-Aligning |

MATERIALS OF CONSTRUCTION

| | |
|---|---|
| A | Standard |
| B | C22 diaphragm* |
| C | C22 All product contact surface** |
| L | Standard w/Custom markings |
| M | C22 Diaphragm w/Custom markings* |
| N | C22 All contact surface w/Custom markings** |

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 | | |

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

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: | 25° to 250°F (-3° to 121°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) for one hour |
| Temperature Effect: | Less than .16% per 10°F change in process or ambient temperature |
| Storage Temperature Limits: | -22°F to 195°F (-30°C to 91°C) |

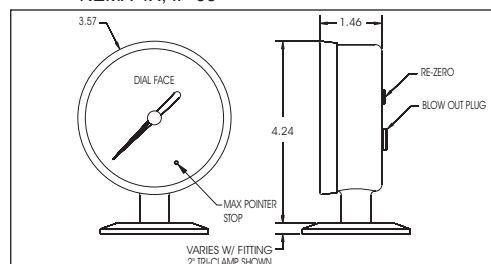
Construction/Finish

| | |
|--|---|
| All Product Contact Surface (Diaphragm and fitting): | Welded 316 "L" grade stainless steel, polished Max. R _a =25 microinches |
| Bourdon Tube/Socket Construction: | Bronze bourdon/brass socket with silver soldered connections |
| Movement Mechanism: | Brass |
| Case/Stem Dial: | Welded 304 stainless steel (polished) Adhesive-backed printed Mylar in various scales, 90mm diameter minimum |
| Lens/Dial Plate: | Corrosion resistant polysulfone, able to withstand 325° Fahrenheit |
| Bezel: | 304 stainless steel, polished, compression formed to case (non-removable) |
| Viewing Angle: | 100 degrees minimum |

Operational

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| 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: | Conforms with 3-A Sanitary Standards (74-02) 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 |

Dimensions:



FORM AIC5015
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