

Sanitary Pressure Gauges

Introduction

Anderson-Negele sanitary pressure gauges are precision instruments designed for use in pressure-dependent processes in which variation of just a few psi can spell the difference between a mediocre product and one of high quality. Anderson-Negele gauges meet every current sanitary standard and are being used by the thousands in food, dairy, beverage and pharmaceutical manufacturing applications worldwide. Details on the following pages describe the features, specifications, and ordering information for the 5" direct and remote mount versions. The last page provides dimensional information for all styles.

If you've ever stood near a working homogenizer, you've experienced the incessant pounding this powerful multi-piston, high-pressure pump can generate. Anderson-Negele 5 inch diameter gauges are built to withstand the continuous pulsations produced by a homogenizer. This is but one of the many sanitary process applications for which this gauge is suited. In fact, anywhere a large, readable and highly-accurate gauge is required, you'll have found another application for the Anderson-Negele 5 inch diameter pressure gauge.

Authorizations



Features

- 316L stainless steel wetted surface provides superior, long-term corrosion resistance
- Saves time with CIP/SIP capability
- Permanently filled and sealed sensing system provides pulsation dampening and long life
- Wide variety of sanitary fittings available which are easily matched to existing piping
- 3-A compliant; Third party verified
- Operate at process temperatures up to 250°F (121°C)
- Ranges between 30" Hg and 15,000 psig



Introduction

The remote-mount model is a logical choice when the process connection is inaccessible or when process-induced vibration can shorten gauge life. The glycerine case fill, standard with direct mount homogenizer gauges, further dampens pointer flutter while it lubricates the internal mechanism.

When process-line cleanup time arrives, the gauge remains in the process or line for CIP, being subjected to hot caustic cleaning solutions and acid rinses. Homogenizer pressure indication is the toughest application to which a pressure gauge can be subjected. Anderson 5 inch diameter gauges have proven themselves to be more than equal to this task. There is no doubt that any other application will be handled with ease.

Specifications

PERFORMANCE

Calibrated Accuracy: $\pm 1.0\%$ of full scale, from 10% - 90% of range (pressure ranges)
 $\pm 1.0\%$ of full scale, from 25" Hg vacuum to 90% of pressure range (compound ranges)

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

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

CIP Temperature Limits: 250°F (121°C)

Temperature Effect: $\pm 0.16\%$ /10°F change in process or ambient temperature

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

Over-range Capability: 10% of span or 1,500 psig (whichever is less)

CONSTRUCTION

Fitting (Wetted Fitting and Diaphragm): Welded 316L stainless steel, polished
 EC max Ra = 16 microinches
 EE max Ra = 32 microinches

Case and Stem: Welded 304 stainless steel polished

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

Dial: 5 inch diameter (125 mm); pressure sensitive adhesive

OPERATIONAL

Capillary (internal) Fill: 80% glycerine (food grade) / 20% USP de-ionized water (standard)
 100% Mineral Oil (food grade) standard for pressure ranges over 600 psig or for remote mount versions.
 Neobee-20 (propylene glycol) for brewery applications

Case Fill (optional): 100% glycerin (food grade)

Diaphragm: 316L Stainless Steel*, polished (better than 240 Grit)

* Homogenizer Diaphragm: Hastelloy "C".

Order Information



EE
EC

GAUGE TYPE
Homogenizer
Sanitary

PRESSURE RANGE
Available with Homogenizer Fittings Only

- 087 0/2,500 psig (0-172 Bar)
- 090 0/5,000 psig (0-344 Bar)
- 093 0/10,000 psig (0-689 Bar)
- 094 0/15,000 psig (1-1000 Bar)

Not available with Homogenizer

- 029 30" Hg/0/30 psig (-1/0/2 Bar)
- 031 30" Hg/0/60 psig (-1/0/4 Bar)
- 034 30" Hg/0/300 psig (-1/0/20 Bar)
- 066 0-30 psig (0-2 Bar)
- 069 0-60 psig (0-4 Bar)
- 071 0-100 psig (0-7 Bar)
- 074 0-160 psig (0-11 Bar)
- 077 0-300 psig (0-20 Bar)
- 082 0-600 psig (0-40 Bar)

DIAL NAME/LOGO
Anderson

01

PROCESS CONNECTIONS

- 056 Homogenizer (less flange)
- 057 Homogenizer (7/8" flange)
- 058 Homogenizer 1 1/8" flange)
- 004 1-1/2" Tri-Clamp
- 005 2" Tri-Clamp
- 010 1-1/2" APC "K" Clamp
- 011 2" APC "K" Clamp
- 016 1-1/2" Cherry-Burrell I-line (male)
- 017 2" Cherry-Burrell I-line (male)
- 027 1-1/2" G & H "H" line
- 028 2" G & H "H" line
- 032 1-1/2" Cherry-Burrell "Q"
- 033 2" Cherry-Burrell "Q"
- 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
- 049 2" #15 Bevel SEat
- 059 1-1/2" NPT male (industrial) ¹
- 117 High Pressure (Rannie) ¹

MOUNTING

- 1 Bottom
- 2 Panel
- 3 Wall
- 4 Back
- 5 Left
- 6 Right

CAPILLARY FILL

- 1 Mineral Oil (std for homo. fittings)
- 4 80/20 Glycerin/H₂O (std for non-homo.)
- 5 Propylene Glycol (Neobee M-20)

CASE FILL

- 1 Unfilled
- 2 Glycerin Filled (std. on homo. gauges)

ARMOR/LENGTH*
(Panel/Wall mount Only)

- 00 None
- 01 5' PVC
- 02 10' PVC
- 03 15' PVC
- 04 20' PVC
- 05 25' PVC
- 06 30' PVC
- 07 35' PVC
- 08 40' PVC
- 09 45' PVC
- 10 50' PVC
- 11 55' PVC
- 12 60' PVC
- 21 5' S.S.
- 22 10' S.S.
- 23 15' S.S.
- 24 20' S.S.
- 25 25' S.S.
- 26 30' S.S.
- 27 35' S.S.
- 28 40' S.S.
- 29 45' S.S.
- 30 50' S.S.
- 31 55' S.S.
- 32 60' S.S.

* **NOTE:** Maximum capillary lengths as listed below.

Range	=====	Max. Length
Compound Ranges		Remote Mt. Not Available
0-15,000 psig		5'
0-10,000 psig		10'
0-5,000 psig		15'
0-2,500 psig		20'
0-1,500 psig		25'
0-1,000/0-30 psig		30'
0-60 psig		50'
All others		60'

¹ Not 3-A compliant

Note:
Please add 10 days to standard lead-time for quantity orders on the following fittings: 010, 011, 027, 028, 032, 033, 044, 045, 048, 049, and 059

120mm (5 inch) Series

