



LEVEL
PRESSURE
TEMPERATURE
INSTRUMENTATION
PASTEURIZATION CONTROLS

Anderson Sanitary Pressure Gauges

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.

Meets all applicable 3-A sanitary standards.

Operate at process temperatures up to 250°F (121°C).

Ranges between 30" Hg and 15,000 psig.

Anderson 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 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 standard, pharmaceutical, and 5" direct and remote mount versions. The last page provides dimensional information for all styles.



120mm (5 inch) Sanitary Pressure Gauges

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 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 5 inch diameter pressure gauge.

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:

- ± 1.0% of full scale, from 10% - 90% of range (pressure ranges)
- ± 1.0% of full scale, from 25" Hg vacuum to 90% of pressure range (compound ranges)

Repeatability:

- ± 0.25% of full scale

Hysteresis:

- ± 0.25% of full scale

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:

- ± 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:

- Welded 316L stainless steel, polished (better than 240 grit)

Case and Stem:

- Welded 304 stainless steel polished (180 grit)

Crystal:

- Polycarbonate, .080" minimum thickness, corrosion resistant

Dial:

- 5 inch diameter (125 mm); pressure sensitive adhesive

OPERATIONAL

Capillary (internal) Fill:

- 80% glycerin (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"

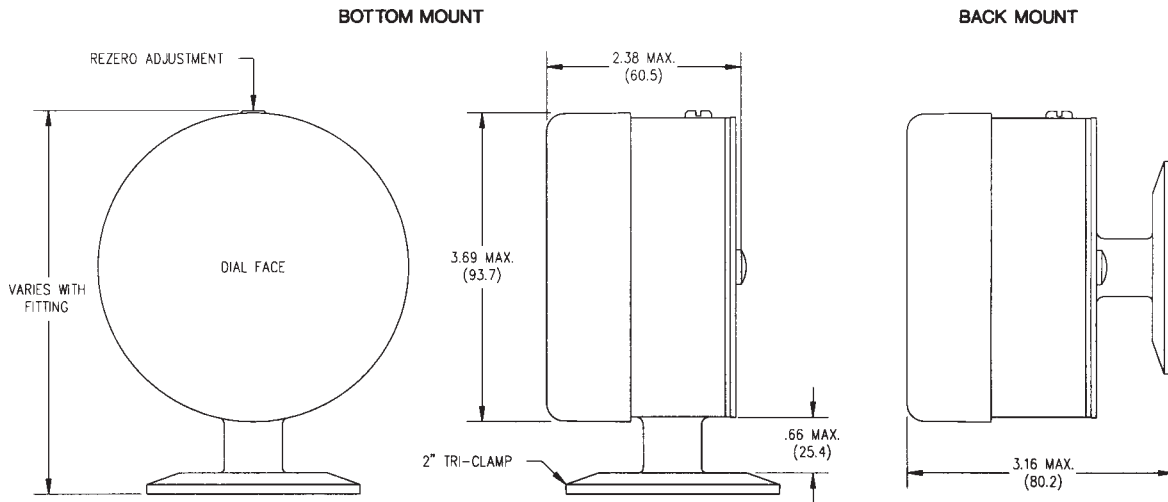
120mm Gauge Ordering Information



<p>GAUGE TYPE</p> <p>EE Homogenizer EC Sanitary</p> <p>PRESSURE RANGE Available with Homogenizer Fittings Only</p> <p>084 0-1,000 psig (0-70 Bar) 085 0/1,500 psig 087 0/2,500 psig 090 0/5,000 psig 093 0/10,000 spg 094 0/15,000 psig</p> <p>Not available with Homogenizer Fittings</p> <p>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)</p> <p>DIAL NAME/ LOGO</p> <p>01 Anderson</p> <p>PROCESS CONNECTIONS</p> <p>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)</p> <p>MOUNTING</p> <p>1 Bottom 2 Panel 3 Wall 4 Back 5 Left 6 Right</p> <p>CAPILLARY FILL</p> <p>1 Mineral Oil (std for homo. fittings) 4 80/20 Glycerin/H₂O (std for non-homo.) 5 Propylene Glycol (Neobee M-20)</p> <p>CASE FILL</p> <p>1 Unfilled 2 Glycerin Filled (std. on homo. gauges)</p>	<p>ARMOR/ LENGTH* (Panel/ Wall mount Only)</p> <p>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</p> <p>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.</p> <p>* NOTE: Maximum capillary lengths as listed below.</p> <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Range</u></th> <th style="text-align: left;"><u>Max. Length</u></th> </tr> </thead> <tbody> <tr> <td>Compound Ranges</td> <td>Remote Mt.</td> </tr> <tr> <td></td> <td>Not Available</td> </tr> <tr> <td>0-15,000 psig</td> <td>5'</td> </tr> <tr> <td>0-10,000 psig</td> <td>10'</td> </tr> <tr> <td>0-5,000 psig</td> <td>15'</td> </tr> <tr> <td>0-2,500 psig</td> <td>20'</td> </tr> <tr> <td>0-1,500 psig</td> <td>25'</td> </tr> <tr> <td>0-1,000/0-30 psig</td> <td>30'</td> </tr> <tr> <td>0-60 psig</td> <td>50'</td> </tr> <tr> <td>All others</td> <td>60'</td> </tr> </tbody> </table> <p>NOTE:</p> <p>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</p>	<u>Range</u>	<u>Max. Length</u>	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'
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Pressure Gauge Dimensions

Standard and Pharmaceutical Series (90mm)



120mm (5 inch) Series

