



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)

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 (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".

120mm Gauge Ordering Information

EE	GAUGE TYPE		ARMOR/LENGTH*
EC	Homogenizer		(Panel/Wall mount Only)
	Sanitary		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.
	PRESSURE RANGE		
	Available with Homogenizer Fittings Only		
084	0-1,000 psig (0-70 Bar)		
085	0/1,500 psig (0-100 Bar)		
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		
01	Anderson		
	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)		
	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/H ₂ O (std for non-homo.)		
5	Propylene Glycof (Neobee M-20)		
	CASE FILL		
1	Unfilled		
2	Glycerin Filled (std. on homo. gauges)		

* 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'

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

Pressure Gauge Dimensions

120mm (5 inch) Series

