

Product Information - EM

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"EM" 90mm Sanitary Pressure Gauge

Introduction

The best just got better! With our re-designed 90mm sanitary pressure gauge, Anderson-Negele has raised the bar relative to performance, reliability, and ease of use.

Customers in the Life Sciences market will recognize at a glance that we've maintained all our unique features like all-welded construction, electro-polished wetted parts, and standard calibration certifications. They'll also appreciate the new, compact profile that fits virtually anywhere while still maximizing readability. But what really sets this gauge apart is the new offset adjustment that comes as a standard feature on every Life Science series gauge. Rear-mounted and unobtrusive, we even provide a special tool for the optional span adjustment so it's tamper-proof.

Complete specifications and ordering information are available on the reverse. For more information contact our Customer Service Department at 1-800-833-0081, or visit our website at www.anderson-negele.com.



Features

- The industry's only externally adjustable span and offset
- Designed specifically for SIP and autoclave applications
- · Lowest/most narrow profile of any sanitary gauge
- · Custom laser etched markings available
- Available clean for oxygen service

Applications

- · Fermentation
- Filtration
- All sanitary pressure dependent processes

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2

Specifications				
TYPICAL PERFORMANCE			Viewing Angle: Clean for Oxygen	100 degrees minimum.
Over-Range Capability: Calibrated Accuracy: Repeatability: Linearity:	At least 25% over range ± .75% F.S. from 10-90% ± .25% of full scale ±.25% of full scale	of range	Service:	Optional, product contact surfaces prepared per Compressed Gas Association G4.1
Hysteresis: Stability:	±.25% of full scale ±.25% of full scale Within specified accuracy under normal operating of		OPERATIONAL Actuating Fill:	100% mineral oil. Meets FDA requirements (21CFR, 172.878 and 178.3620(a)) Nocheo 20, 80/20 glycoring/H20 entional
Process Temperature Limits:	-20° to 300°F (-29° to 149 option to 330°F (166°C)		Case Fill: Mechanical	Neobee-20, 80/20 glycerine/H2O optional Optional, glycerine 100% USP Food Grade.
Ambient Temperature	40° to 120°F (4° to 49°C)		Dampening:	Optional. Standard and case filled gauges dampened to 25% to 50%. Mechanical dampening
Limits: CIP Temperature Limit: SIP Temperature Limit: Autoclave Temperature	250°F (121°C) continuous 300°F (149°C) continuous		Re-Zero Adjustment:	dampens 50% to 80% of pressure variations. Tamper resistant adjustment, +/-5% of span. Non interactive with span. External adjustment integrally located on back of case.
Limit: Temperature Effect:	300°F (149°C) for one hour (unfilled case only) Less than 0.06 psi per 10°F change in process or ambient temperature		Re-Span Adjustment:	Externally accessible with tool (AIC #4523800000) through rear of case. Adjustment up to +/-5% of span.
Storage Temperature Limits:	-22°F to 195°F (-30°C to 91°C) -22°F to 250°F (-30°C to 121°C)*		Standards:	Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC.
* Vented Case		-,		Designed and tested in accordance with
(Diaphragm and fitting):	l Product Contact Surface iaphragm and fitting): Welded 316L stainless steel, electropolished. Maximum Ra= 8 microinches (.2 microns).			ASME B40.100. NEMA 4X, IP-66 CSA B51-03, CRN# CSA0F9754.5C CGA G4.1 (OPTIONAL)
Bourdon Tube/Socket Construction:	Bronze bourdon/brass so connections.	cket with silver soldered	DIMENSIONS	3.57 - 1.46 -
Movement Mechanism: Case/Stem: Dial:	Brass. Welded 304 stainless ste Adhesive-backed printed 90mm diameter min.			DHL FACE
Lens/Dial Plate	Corrosion resistant polys 325°F	ulfone able to withstand		
Optional lens:	UV Stabilized polycarbon autoclave)	ate (not suitable for		
Bezel:		ned, compression formed		VARIES W/ FITING Z TR-CLAMP SHOWN
Order Information				
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RANGE 029 30" Hg/0/30 PSIG 031 30" Hg/0/100 PSIG 032 30" Hg/0/100 PSIG 033 30" Hg/0/100 PSIG 034 30" Hg/0/300 PSIG 066 0/30 PSIG 069 0/60 PSIG 071 0/100 PSIG 074 0/160 PSIG 077 0/300 PSIG	056 -1/0/4 BAR			O FIXED CHARACTER SURFACE PREPARATION O Standard 1 Clean for oxygen service LENS O Standard 1 UV Stabilized TEMPERATURE O Standard 1 Hi temp to 330°F with steam stabilized diaphragm ¹ MATERIALS OF CONSTRUCTION A Standard
DUAL SCALE RANGES 241 -0.1/0/0.2 MPa/BAR 242 -0.1/0/0.4 MPa/BAR 243 0/0.25 MPa/BAR 244 0/0.4 MPa/BAR 245 0/0.6 MPa/BAR 245 0/0.6 MPa/BAR 246 0/1 MPa/BAR 857 0/2 MPa/BAR 857 0/2 MPa/BAR 929 30" Hg/0/30 psig - 931 30" Hg/0/100 psig 933 30" Hg/0/100 psig 933 30" Hg/0/100 psig 934 30" Hg/0/300 psig 946 0/30 psig - 0/2 BAR	-1/0/2 BAR -1/0/4 BAR - 1/0/7 BAR - 1/0/1 BAR - 1/0/10 BAR - 1/0/20 BAR			B C22 diaphragm ¹ C C22 All product contact surface ² L Standard w/Custom markings M C22 Diaphragm w/Custom markings ¹ N C22 All contact surface w/Custom markings ² CAPILLARY FILL 1 Mineral Oil (Standard) 4 80/20 Glycerin/H2O 5 Propylene Glycol (Neobee-20) CALIBRATION ADJUSTMENT/STOP 1 w/Re-Zero (Standard) 2 w/Re-Zero of Re-Span 3 w/Re-Zero of Re-Span 4 w/Re-Zero of Re-Span w/ max
969 0/60 psig - 0/4 BAR 971 0/100 psig - 0/7 BAR 974 0/160 psig - 0/7 BAR 977 0/300 psig - 0/20 BAR 982 0/600 psig - 0/40 BAR NAME ON DIAL				pointer stop DAMPENING 0 Standard Dampening 1 Glycerine Filled Case (OF) 2 Mechanical Dampening (MD) 3 Vented Case/Standard Dampening 4 Vented Case/Mechanical Dampening MOUNT
01 Anderson Instrument Co. 1 Bottom 5 Left 7 Top 4 Back 6 Right				
FITTING 4 Back 0 Kight 004 1-1/2" Tri-Clamp® 177 2" Tri-Clamp® - Recessed ³ 027 1-1/2" G&H "H" Line (male)				
005 2" Tri-Clamp® 016 1-1/2" (Cherry "I" (male) 028 2" G&H "H" Line (male) 1 1-1/2" TC & 2" TC, other fittings available consult factory 162 1-1/2" Tri-Clamp® - Recessed 3 017 2" Cherry "I" (male) 123 AIC CPM Flush Mount 2 Available 1-1/2" TC & 2" TC only 162 1-1/2" Tri-Clamp® - Recessed 3 017 2" Cherry "I" (male) 123 AIC CPM Flush Mount 2 Available 1-1/2" TC & 2" TC only Not 3-A compliant 099 2" Varivent 3 Not 3-A compliant				
05017 / 2.1 / 2015-06-29 / PW / NA ANDERSON INSTRUMENT COMPANY Phone 800-833-0081 Tech. Support:				
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