

SANITARY BY DESIGN

Product Information - EM

LIFE SCIENCES

"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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Specifications			
TYPICAL PERFORMANCE		Viewing Angle:	100 degrees minimum.
Over-Range Capability: Calibrated Accuracy: Repeatability: Linearity:	At least 25% over range ±.75% F.S. from 10-90% of range ±.25% of full scale ±.25% of full scale	Clean for Oxygen Service: OPERATIONAL	Optional, product contact surfaces prepared per Compressed Gas Association G4.1
Hysteresis: Stability:	±.25% of full scale Within specified accuracy for 6 months under normal operating conditions.	Actuating Fill:	100% mineral oil. Meets FDA requirements (21CFR, 172.878 and 178.3620(a)) Neobee-20, 80/20 glycerine/H2O optional
Process Temperature Limits:	-20° to 300°F (-29° to 149°C) option to 330°F (166°C)	Case Fill: Mechanical Dampening:	Optional, glycerine 100% USP Food Grade. Optional. Standard and case filled gauges
Ambient Temperature Limits: CIP Temperature Limit: SIP Temperature Limit: Autoclave Temperature	40° to 120°F (4° to 49°C) 250°F (121°C) continuous 300°F (149°C) continuous	Re-Zero Adjustment:	dampened to 25% to 50%. Mechanical dampening 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
CONSTRUCTION/FINISH All Product Contact Surfa	ace		ASMĒ B40.100. NEMA 4X, IP-66
(Diaphragm and fitting):			CSA B51-03, CRN# CSA0F9754.5C CGA G4.1 (OPTIONAL)
Bourdon Tube/Socket Construction:	Bronze bourdon/brass socket with silver soldered connections.	DIMENSIONS	
Movement Mechanism: Case/Stem: Dial:	Brass. Welded 304 stainless steel (polished). Adhesive-backed printed Mylar in various scales, 90mm diameter min.		DAL INCE
Lens/Dial Plate	Corrosion resistant polysulfone able to withstand		
Optional lens:	325°F UV Stabilized polycarbonate (not suitable for autoclave)		
Bezel:	304 stainless steel, polished, compression formed to case (non-removable).		VARES W FITING 2 TR-CLAMP SHOW
Order Information			
RANGE 029 30" Hg/0/30 PSIG 031 30" Hg/0/60 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 077 0/300 PSIG	056 -1/0/4 BAR		 O FIXED CHARACTER SURFACE PREPARATION O Standard 1 Clean for oxygen service LENS
DUAL SCALE RANGES 241 -0.1/0/0.2 MPa/BAI 242 -0.1/0/0.4 MPa/BAI 367 -0.1/0/0.7 MPa/BAI 243 0/0.25 MPa/BAR 244 0/0.4 MPa/BAR 245 0/0.6 MPa/BAR 246 0/1 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/0/100 psig 934 30" Hg/0/300 psig 944 30" Hg/0/300 psig	R R -1/0/2 BAR -1/0/4 BAR -1/0/7 BAR -1/0/11 BAR -1/0/20 BAR		A Standard 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 CAPILLARY FILL 1 Mineral Oil (Standard) 4 80/20 Glycerin/H2O 5 Propylene Glycol (Neobee-20) CALIBRATION ADJUSTMENT/STOP 1 w/Re-Zero & Re-Span 3 w/Re-Zero & Re-Span w/ max pointer stop
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 - 0/11 BAR 982 0/600 psig - 0/40 BAR NAME ON DIAL			DAMPENING Standard Dampening Glycerine Filled Case (OF) Mechanical Dampening (MD) Vented Case/Standard Dampening Vented Case/Mechanical Dampening MOUNT
01 Anderson Instrument Co. 1 Bottom 5 Left 7 Top 4 Back 6 Right			
FITTING 004 1-1/2" Tri-Clamp® 005 2" Tri-Clamp® 162 1-1/2" Tri-Clamp®	016 1-1/2" Cherry "I" (male) 028 2 - Recessed ³ 017 2" Cherry "I" (male) 123 4	1-1/2" G&H "H" Line (male) 2" G&H "H" Line (male) AIC CPM Flush Mount 2" Varivent	6
05017 / 2.1 / 2015-06-29 / PW			
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