

Model CMM Precision Pressure Gauge



FEATURES

- $\pm 0.1\%$ F.S. accuracy – ASME B40.1, Grade 4A
- Ranges from 12-100,000 psi
- Solid front protective case
- High and low pressure limit stop
- Mirror band dial to eliminate parallax reading error
- Optional temperature compensation maintains 0.1% accuracy from -25 to $+125^\circ\text{F}$

The standard Heise® precision pressure gauge case style features a solid-front aluminum case with a hinged ring. The dial has a polished mirror band for pointer reflection to prevent parallax error and is available in 6," 8½," 12," and 16" dial sizes in both lower and back connection. Pointer is a balanced-friction adjustable design with red knife edge tip for easy reading.

PRODUCT SPECIFICATIONS

HEISE®

Model No.

& Dial Size: CMM: 6," 8½," 12," 16"

Case: Cast aluminum, solid front. Blow out rear cover. Integral panel mounting flange

Lens: Polycarbonate,

Dial: Black figures on white, high resolution with mirror band

Pointer: Knife edge pointer to eliminate parallax errors

Bourdon Tube:

Bleeder tipped for easy flushing or purging

Socket:

Connections: ¼ NPT Female – Back Connect Autoclave F250-C (Aminco 45-11310) – Back Connect

Ranges: Available in Gauge, Compound, Vacuum and Absolute (requires manual barometric compensation)

Repeatability: $\pm 0.02\%$ F.S.

Hysteresis: $\pm 0.1\%$ F.S. ⁽¹⁾

Total

Accuracy: $\pm 0.1\%$ F.S. Includes Certificate of NIST traceability

OPTIONAL FEATURES

- Custom scales/units of measure
- Thermal compensation (maintains 0.1% accuracy from -25 to $+125^\circ\text{F}$)
- Slotted link (protects movement during sudden pressure release)
- Wall mounting brackets
- Peak load indicator
- Dual scale dial

⁽¹⁾ Hysteresis may exceed $\pm 0.1\%$ of span for ranges equal to or greater than 75,000 psi. ($\pm 0.3\%$ typical not to exceed $\pm 0.4\%$ of span).

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MATERIAL AND RANGE

Standard Ranges

psi

- Beryllium copper: 0-30 through 0-40 psi
- 403 SS: 0-50 through 0-10,000 psi

Inches Mercury

- Beryllium copper: 0-60 through 0-75 psi
- 403 SS: 0-100 through 0-1000 psi

Vacuum

- Beryllium copper:

Compound

- Beryllium copper: 15" Hg-15" Hg through 30" Hg-60 Hg"
- 403 SS: 30" Hg-100" Hg through 30" Hg-150 Hg"
- Beryllium copper: 30" Hg-15 psi through 30" Hg-30 psi
- 403 SS: 30" Hg-60 psi through 30" Hg-300 psi

Inches Water

- Beryllium copper: 0-800 through 0-1000

METRIC

Millimeters Mercury

- Beryllium copper: 0-1500 through 0-2000
- 403 SS: 0-2500 through 0-5000

bar – kg/cm² – kp/cm²

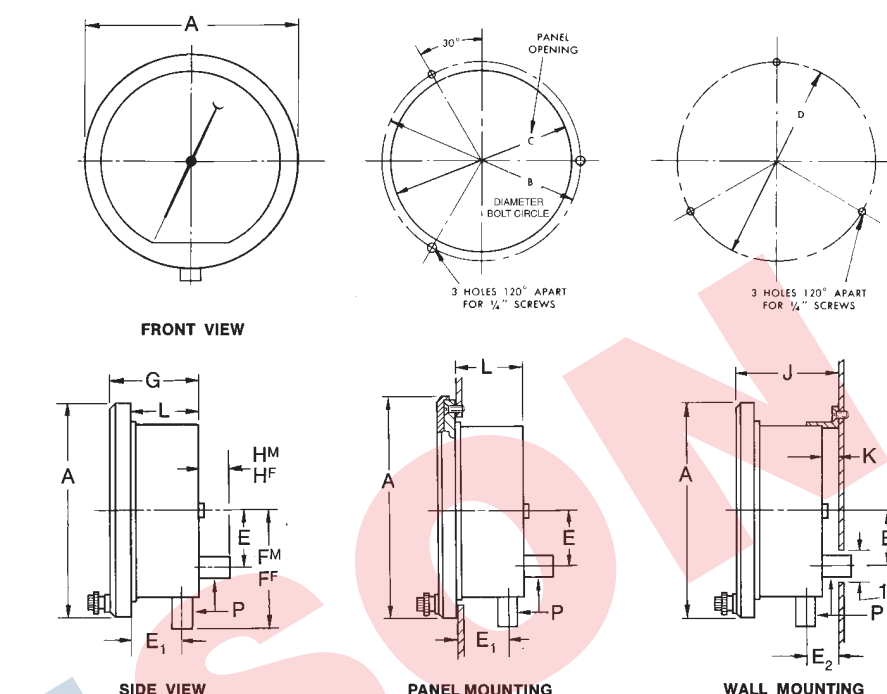
- Beryllium copper: 0-2 through 0-2.5
- 403 SS: 0-3 through 0-600

kPa

- Beryllium copper: 0-200 through 0-250
- 403 SS: 0-300 through 0-10,000

mPa

- 403 SS: 0-1 through 0-60



Model "CMM"

Size	Dim. Units	A	B	C	D	E	E ₁	E ₂	F _M	F _F	G	H _M	H _F	J	K	L
6"	in.	7 ⁷ / ₈	7	6 ¹ / ₂	7	2	1 ⁷ / ₈	1 ¹ / ₄	4 ⁹ / ₁₆	4 ¹ / ₄	3 ¹ / ₄	1 ³ / ₈	1 ¹ / ₁₆	3 ²⁷ / ₃₂	5 ⁵ / ₈	2 ¹⁵ / ₃₂
	mm	200	177.8	165.1	177.8	50.8	47.6	31.8	115.8	107.9	82.3	34.9	27	97.6	15.9	62.7
8 ¹ / ₂ "	in.	10 ⁵ / ₁₆	9 ³ / ₈	8 ¹⁵ / ₁₆	9 ¹ / ₂	2	1 ⁷ / ₈	1 ¹ / ₄	5 ⁴³ / ₆₄	5 ²³ / ₆₄	3 ¹ / ₄	1 ³ / ₈	1 ¹ / ₁₆	4 ¹ / ₃₂	5 ⁵ / ₈	2 ²¹ / ₃₂
	mm	261.9	238.1	228.6	241.3	50.8	47.6	31.8	144	136.1	82.3	34.9	27	102.4	15.9	67.4
12"	in.	13 ²¹ / ₃₂	12 ³ / ₄	12 ³ / ₈	9 ¹ / ₂	2	1 ⁷ / ₈	1 ¹ / ₄	5 ⁴³ / ₆₄	5 ²³ / ₆₄	3 ¹ / ₄	1 ³ / ₈	1 ¹ / ₁₆	4 ¹ / ₃₂	5 ⁵ / ₈	2 ²¹ / ₃₂
	mm	346.9	329.9	314.3	241.3	50.8	47.6	31.8	144	136.1	82.3	34.9	27	102.4	15.9	67.4
16"	in.	17 ²³ / ₃₂	16 ³ / ₄	16 ³ / ₈	9 ¹ / ₂	3 ¹ / ₄	1 ⁷ / ₈	1 ⁶³ / ₆₄	5 ⁹ / ₁₆	5 ¹ / ₄	3 ²⁵ / ₆₄	1 ³ / ₈	1 ¹ / ₁₆	4 ¹ / ₁₆	4 ¹ / ₆₄	2 ²¹ / ₃₂
	mm	450.1	425.2	415.9	241.3	82.6	33.3	50.4	141.3	133.4	86.1	35.0	27.0	103.1	16.3	67.4

Inlet Pressure Connection*	Pressure connection is illustrated in both back and bottom configurations. See page 4 for available fitting types.			
Approximate Weight	Dial Size	6"	8 ¹ / ₂ "	12"
	Net Weight	4 ¹ / ₂ lbs.	7 ³ / ₄ lbs.	10 ³ / ₄ lbs.
	Shipping Weight	7 lbs.	10 lbs.	15 lbs.

*Standard Inlet Fittings: 1/4 NPT Female Back Connection for ranges up to and including 10,000 psi.

AMINCO 45-11310 or AUTOCLAVE F-250-C for ranges over 10,000 psi.