

## A4A Precision Pressure Gauge

### FEATURES

- $\pm 0.1\%$  of span accuracy (ASME B 40.100 Grade 4A)
- Ranges from vacuum to 100,000 psi, gauge, absolute and compound pressure
- Mirror band dial and knife edge pointer to eliminate parallax error
- Solid front protective case
- External zero adjustment

### SPECIFICATIONS

Accuracy:	$\pm 0.1\%$ of span (ASME B40.100 Grade 4A) Includes NIST Traceable Calibration Certification
Hysteresis:	<0.1% of span Hysteresis may exceed $\pm 0.1\%$ of span for ranges equal to greater than 75,000 psi ( $\pm 0.3\%$ typical not to exceed $\pm 0.4\%$ of span)
Case Size:	6", 8½", 12" or 16"
Enclosure Rating:	Case is not sealed, recommended for weather protected environment only
Process Connection Size:	¼ NPT Female ⅜ NPT Male or female ¼ NPT Male or female ⅝"-18 UNF-2B Female for ¼" HP tubing MS33649-4 Female only MS33656-4 Male only MS-16142 Female only Mil-G-18997D Male only <ul style="list-style-type: none"> <li>Standard Inlet Fittings: ¼ NPT Female back connection for ranges up to and including 10,000 psi.</li> <li>Ranges greater than 10,000 psi ⅝"-18 UNF Female compatible with AND10050-4, Aminco 45-11310 and Autoclave F-250-C.</li> </ul>
Process Connection Location:	Back, bottom
Case Style:	Solid front, blow out rear cover, with integral panel mounting flange
Mounting Options:	Integral panel mount or optional wall mount bracket
Pointer Travel:	350 Degrees up to 30,000 psi 300 Degrees 40,000 to 50,000 psi 270 Degrees 60,000 thru 100,000 psi
Options:	Thermal compensation from -25°F to +125°F

### WETTED COMPONENTS

Model	Inlet Fitting	303SS
A4A	Bourdon Tube	Beryllium copper: 0/15 psi through 0/40 psi 403 SS: 0/50 psi through 0/100,000 psi

### NON-WETTED COMPONENTS

Model	Case Material	Cast Aluminum
A4A	Enclosure Rating	Case is not sealed, recommended for weather protected environment only



**A4A**  
6", 8½", 12" or 16" dial sizes

### KEY BENEFITS

- High accuracy for precision pressure measurement
- Many process connection options
- Dual engineering unit scale optional

### OPTIONS

**Thermal Compensation:** Bimetallic compensator corrects effects of ambient temperature on bourdon tube to maintain accuracy between -25°F and +125°F

**Slotted Link:** Protects gauge movement from damage caused by sudden release of pressure, such as burst testing applications

**Peak Load Indicator:** "Max Hand" red pointer which remains in position after being pushed by the primary pointer. External knob allows for manual reset.

**Peak Load Indicator:** Special units of measure and dual scales can be customized to meet customer requirements.

**Custom Scales:** Special units of measure and dual scales can be customized to meet customer requirements.

**Hand Carry Case:** Sturdy lightly padded case for storage and hand carry of gauge. Not suitable for use as stand alone shipping container.

# Data Sheet

## A4A Precision Pressure Gauge

ORDERING CODE	Example:	A4AD	L	G	V	200	C
<b>Model Code/Dial Size</b>							
A4AD - 6" dial		A4AD					
A4AE - 8 1/2" dial							
A4AF - 12" dial							
A4AG - 16" dial							
<b>Process Connection Size/Location</b>							
A - 1/4 Male NPT back							
B - 1/4 Male NPT back							
C - 1/4 Female NPT back							
D - 1/4 Female NPT back							
E - 3/16-18 Thread back							
F - MS-33656-4 Male back							
G - MS-33649-4 Female back							
J - 3/16-18 UNF3A Male back							
K - 1/8 Male NPT bottom							
L - 1/4 Male NPT bottom			L				
M - 1/8 Female NPT bottom							
N - 1/4 Female NPT bottom							
P - 3/16-18 Thread bottom							
R - MS-33656-4 Male bottom							
S - MS-33649-4 Female bottom							
U - 3/16-18 UNF3A Male bottom							
X - MS-16142 3/16-18 Female bottom							
Z - MS-16142 3/16-18 Female back							
<b>Pressure Type</b>							
G - Gauge				G			
A - Absolute							
V - Vacuum							
C - Compound							
<b>Tube Material</b>							
J - Berillium copper (up to 40 psi)							
V - 403 Stainless steel (50 psi and greater)					V		
<b>Pressure Range</b>							
12 - 12 psi							
15 - 15 psi							
20 - 20 psi							
25 - 25 psi							
30 - 30 psi							
40 - 40 psi							
50 - 50 psi							
60 - 60 psi							
75 - 75 psi							
100 - 100 psi							
150 - 150 psi							
200 - 200 psi						200	
250 - 250 psi							
300 - 300 psi							
400 - 400 psi							
500 - 500 psi							
600 - 600 psi							
750 - 750 psi							
1000 - 1,000 psi							
1250 - 1,250 psi							
1500 - 1,500 psi							
2000 - 2,000 psi							
2500 - 2,500 psi							
3000 - 3,000 psi							
4000 - 4,000 psi							
5000 - 5,000 psi							
6000 - 6,000 psi							
7500 - 7,500 psi							
10000 - 10,000 psi							
15000 - 15,000 psi							
20000 - 20,000 psi							
25000 - 25,000 psi							
30000 - 30,000 psi							
40000 - 40,000 psi							
50000 - 50,000 psi							
60000 - 60,000 psi (available in 8 1/2", 12" or 16")							
75000 - 75,000 psi (available in 8 1/2", 12" or 16") (see note 1)							
100000 - 100,000 psi (available in 8 1/2", 12" or 16") (see note 1)							
<b>Optional Features</b>							
C - Slotted link							C
D - Temperature compensated							
E - Special calibration							
F - Special scale							
G - Dual scale							
H - Special cleaning for oxygen service							
I - 6" Peak load indicator							
J - 8 1/2" Peak load indicator							
K - 12" Peak load indicator							
L - 16" Peak load indicator							
M - 6" Wall mount							
N - 8 1/2", 12" or 16" Wall mount							
P - Cleaned for general gas service							
S - Laminated safety glass							
W - Special cleaning, O <sub>2</sub> clean, do not apply warning labels							

NOTE: Product codes are specified in psi based on maximum capability of the bourdon tube assembly. Full scale pressure range and units of measure must be specified by special instructions in addition to the product code. For example 10,000 psi range would be specified and special instructions "Calibrate 0-600 Bar"

NOTE:  
1.) Hysteresis may exceed 0.1% of span for ranges of 75,000 psi or greater. 0.3% is typical, not to exceed 0.4%.