



TESTS AND CERTIFICATIONS

TEST AND CERTIFICATION OF PRESSURE GAUGES

1. All of PIC Gauges pressure gauges are manufactured to be in accordance with ASME B40.1-2005.
2. Each gauge is individually tested and calibrated during the assembly process.
3. Although each gauge is individually tested, they are not individually traceable to NIST Standards and therefore not certified as a standard of production.
4. If certification of accuracy is required, independent testing against a known and traceable standard (i.e. a certified dead weight tester) will be required. This typically carries additional fees and charges. Please contact a PIC Gauges account representative for more information.
5. If a certificate of conformance is required, PIC Gauges can supply this at no or minimal expense. Please contact an account representative for more information.

Although all PIC Gauges are manufactured and tested to be accurate and in calibration, rough handling during shipment may cause pressure gauges to be “knocked out” of calibration. This can occur even though good packaging practice was used.

The American National Standard on pressure gauges (ASME B40.1) recognizes this by including the following statement:

Caution to users: Pressure gauges can be rendered inaccurate during shipment despite care taken in packaging. To insure conformance to the standard grade to which the pressure gauge was manufactured, it should be checked before use.

Gauges received “off zero” because of shipping damage can usually be brought back into calibration by a simple pointer adjustment.

Please make sure your customers are aware of this information.

ASME STANDARD ACCURACY GRADES

Accuracy Grade	Permissible Error (+/- percent of span) (excluding friction)			Maximum Friction (% of span)	Min Dial Size (270° dial arc)
	Lower 1/3 of scale	Middle 1/3 of scale	Upper 1/3 of scale		
4A	0.1			Note*	8.5"
3A	0.25			0.25	4.5"
2A	0.5			0.5	2.5"
1A	1.0			1.0	1.5"
A	2.0	1.0	2.0	1.0	1.5"
B	3.0	2.0	3.0	2.0	1.5"
C	4.0	3.0	4.0	3.0	1.5"
D	5.0	5.0	5.0	3.0	1.5"

*NOTE: Grade 4A gauges must remain within specified tolerance before and after being lightly tapped.