



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems  
Institute Calibration Laboratory  
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Calibration Laboratory  
Certificate #0972-01

## Certificate of Calibration

**Cost Center:** DIV20

**Mail Stop:** B51

**Customer:** DON BANNON

**Manufacturer/Model:** ASHCROFT / 0 to 30 in. Hg

**Description:** PRESSURE GAUGE

**Serial Number:** 13762

**Asset Number:** 013762

**Procedure:** PRESSURE GAGES - 29 MAR 06

**Work Order:** 303085749

**Date Issued:** 29-Jan-2009

**Date Calibrated:** 29-Jan-2009

**\*Date Due :** 29-Jan-2010

**\*\*Results:** FOUND-LEFT

**Temperature:** 67°F

**Humidity:** 38 %

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NC SL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

\*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. \*\*Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

**Remarks:** ASME Grade B Tolerance (2% Middle Half, 3% First and Last Quarter of Dial)

### Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
005259	MENSOR	5014	PRESSURE CALIBRATOR	2-Dec-2008	2-Jun-2009

Reviewed By: ( ) srk ( / ) mar ( ) wgh

Laboratory Quality Manager

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Calibrated By: Perry Carpenter

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303085749	Mfr:	Ashcroft	Technician:	PWC
Asset No:	013762	Model:	0-30 in/Hg		
Serial No:	13762	Type:	Pressure Gauge	Cal Date:	29-Jan-09

Remarks: ASME Grade B Tolerance (2% Middle Half, 3% First and Last Quarter of Dial)  
Referenced to 0°C.

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Pressure	in/Hg	in/Hg	in/Hg	in/Hg	in/Hg	Result
	0.0	0.0	0.0	0.9	0.29	Pass
	7.5	8.0	0.5	0.6	0.29	Pass
	15.0	15.5	0.5	0.6	0.29	Pass
	22.5	23.0	0.5	0.6	0.29	Pass
	28.5	28.6	0.1	0.9	0.29	Pass
	22.5	23.0	0.5	0.6	0.29	Pass
	15.0	15.5	0.5	0.6	0.29	Pass
	7.5	8.0	0.5	0.6	0.29	Pass
	0.0	0.0	0.0	0.9	0.29	Pass

END OF REPORT