

Certificate of Calibration

Traceability Job No 109320.001

WILLBROS GOVERNMENT SERVICES 99-2500 HALWA VALLEY ST AIEA, HI 96701

P.O. No: VERBAL CASEY/SALES

Data Reqd: Yes

Instrument Information

Inst Descrip: PRESSURE CAUCE Manufacturer ASHCROFT Model 45-1279S5-04L-400= Serial No. 8966699

Cust ID No: 8966699

Accuracy = 0.5% F.S.

F487

Calibration Site IN SHOP Date Rec 25-Apr-2013 Date of Cal 25-Apr-2013 Next Cal Due: 25-Apr-2014

As Received

IN TOLERANCE **OPERATIONAL**

IN TOLERANCE **OPERATIONAL**

As Left

Procedure 501491 Cal Result PASS

FULL CAL NOT ADJUSTED

Remarks SEE ATTACHED DATA SHEET.

Calibration Standards Used

Manufacturer Model No HEISE F436 ST-2H

HEISE

HQS-2

Description CALIBRATOR

PRESSURE MODULE

Serial No 50055 HQS-15614 Cal Date 25-Jan-2013

05-Feb-2013

Cal Due 25-Jan-2014 05-Feb-2014

Calibration Room Environment

Temperature: 70F/21.1C

Relative Humidity: 49 %

Barometric Pressure: N/A

This item meets published specifications. It has been calibrated using standards traceable to the National Institute of Standards and Technology. Alternatively, accuracies have been derived from accepted values of natural physical constants, or derived by the ratio type of self-calibration techniques. This certificate may be reproduced in full. Partial reproduction may be done only with written prior consent. All calibration activities are performed in compliance with ANSI/NCSL Z540.3-2006, ISO 10012, and MIL-STD-45662A.

FLW Service Corporation

5672 Bolsa Avenue Huntington Beach, CA 92649 (800) 576-6308 Fax: (714) 622-2002 Issued On April 25, 2013 By:

FORM P370-15.2 Mar 2012



FLW Service Corporation

5672 Bolsa Avenue Huntington Heach, CA 92649 Ph 714-751-7512 Fax 714-755-7332 http://www.flw.com

Job/Traceability #:	109320.001

DATA REPORT

ID: 8966699

Date:()4/25/13		
Unit of Me	asurement:	PS	1
Range:	0	to	-100
UUT Accu	racy:	0.5	ºo FS
UUT Reso	lution:	1	PSI

STANDARD READING PS1	UUT AS FOUND PSI	ERROR %		AS LEFT PSI	ERROR %	
0	0	0.000	Pass	0	0.000	Pass
80	81	0.250	Pass	81	0.250	Pass
160	160	0.000	Pass	160	0.000	Pass
240	239	0.250	Pass	239	0,250	Pass
320	318	0.500	Pass	318	0.500	Pass
400	400	0.000	Pass	400	0.000	Pass
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Remarks:			
Data Taken By:	Yancio	America	

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June 2006

B-116

BWS022348

Form RD001/ Pg 1

RD Technology of Hawaii

134 Nakolo Piace Honolulu, HI 96819 (808) 833-3499

Certificate of Calibration

Willbros Government Services	
Willbros Government Services 99-2500 Halawa Valley St.	
Alea HI 96701- (808) 352-0528	
Ashcroft	0-300 PSI
Manufacturer	Model
16531	Pressure Gauge
Serial Number	Description
06/07/2012	112,776
Calibration Date	Test Number
06/07/2013	
Recalibration Due	Asset Number
NAVAIR 17-20MP-06	23 °C 43 % RH
Instrument Accuracy I Procedure	Temperature Humidity

RD Technology of Hawaii certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology within the limitations of the Institutes calibration services, or have been derived from accepted values of natural physical constants, or have been by the ratio type of self-calibration techniques. Our "Calibration System Requirements" is in compliance with ANSI/NCSL Z540-1 standards.

Calibration Standards Used:

Equip#	Manufacturer	Description	Model	Serial	Date Calibrated	Date Due
10,009	DH Instruments	Pressure Control Calibrator	PPC2 AF	190	04/24/2012	04/24/2013

In Tolerance

Condition Received

In Tolerance

Condition Returned

RD Technology of Hawaii / DB

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B-116 BWS022349

RD Technology of Hawaii

134 Nakolo Place Honolulu, HI 96819 (308) 833-3499

Certificate of Calibration

Willbros (Governi	nent Serv	ces			
Willbros Go	vernmen	Services				
99-2500 Ha	lawa Vall	ey St.				
Aiea	HII	96701-	(808) 352-0528			
Ashcroft				0-300 PSI		
Manufact			-n x-X-XII-III	Model		
16567				Pressure Gauge		
Serial Number		Description				
06/21/2012				112,896		
Calibratic				Test Humber		
THE PROPERTY OF THE PARTY OF						
06/21/20	13		and the same of th	4 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a description of the second second	
Recalibra	tion Du	ie		Asset Number		
NAVAIR 17-20MP-06		25 °C	45 % RH			
C. P. C. P. LOND S. S. L. L. L. C. C. L. C.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	racy Pro	cedura	Temperature	Humidity	

RD Technology of Hawaii certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology within the limitations of the Institutes calibration services, or have been derived from accepted values of natural physical constants, or have been by the ratio type of self-calibration techniques. Our "Calibration System Requirements" is in compliance with ANSVNCSL Z540-1 standards

Calibration Standards Used:

Fouin #	Manufacturer	Description	Model	Serial	Date Calibrated	Date Due
10.009	OH Instruments	Pressure Control Calibrator	PPC2 AF	190	04/24/2012	04/24/2013

In Tolerance

Condition Received

In Tolerance

Condition Returned

RD Technology of Hawaii / DB

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B-116 BWS022350



Caltrol, Inc. 91-110 Hanua Street Kapolei, HI 96701 Ph 808-487-7717 Fax 808-488-3343

CALIBRATION CERTIFICATE

This is to certify that the following pressure instruments were checked at various pressure points for accuracy with a Keller LEO 1 Manometer SN: 14734, traceable to the National Institute of Standards and Technology, NIST and found to be within calibration specifications.

Date: October 15, 2010

Purchase order #: CC, Ann Manners

Customer: Willbros Government Services

Sale Order #: 398716

Ashcroft 45-1279SS-04L-300 0-300# PSI Gauge

Actual:	Up scale <u>reading:</u>	Down scale reading:
50 psig 100 psig	49.5 psig 101.2 psig	49,6 psig 101.2 psig
150 psig	152 psig	152 psig
200 psig	202.2 psig	202 psig
250 psig	252.2 psig	252.4 psig

Authorized Signature Shaon Fergueson



Caltrol, Inc. 91-110 Hanua Street Kapolei, HI 96701 Ph 808-487-7717 Fax 808-488-3343

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Date: October 15, 2010

Purchase order #: CC, Ann Manners

Customer: Willbros Government Services

Sale Order #: 398716

Ashcroft 45-1279SS-04L-300 0-300# PSI Gauge #/

Actual:	Up scale <u>reading:</u>	Down scale reading:
50 psig	50.5 psig	50.6 psig
100 psig	100.7 psig	100.2 psig
150 psig	151.2 psig	150.7 psig
200 psig	201.9 psig	202 psig
250 psig	251.9 psig	252.2 psig

Shaun Fergueson



Certificate of Calibration

Traceability Job No 108644.001

Prepared For:

WILLBROS GOVERNMENT SERVICES 99-2500 HALWA VALLEY ST AIEA, HI 96701

P.O. No: 54118-641/SALES

Data Reqd: Yes

Instrument Information

Inst Descrip PRESSURE GAUGE
Manufacturer ASHCROFT
Model 45-1279SS-04L-300=
Serial No. 8966476

Date Rec: 15-Nov-2012
Date of Cal 15-Nov-2012
Next Cal Due 15-Nov-2013

Calibration Site IN SHOP

IN TOLERANCE OPERATIONAL

As Received

IN TOLERANCE OPERATIONAL

As Left

Cust ID No. 8966476 Pro-Accuracy = 0.5% F.S. Cal

Procedure S01491 Cal Result PASS

FULL CAL NOT ADJUSTED

Remarks SEE ATTACHED DATA SHEET

Calibration Standards Used

ID No Model No Manufacturer Description Serial No Cal Date Cal Due HEISE PTE-I /FM PRESSURE CALIBRATOR 9999 18-jan-2012 18-Jan-2013 F447 HQS-2 HEISE PRESSURE MODULE HQ5-29535 17-May-2012 17-May-2013

Calibration Room Environment

Temperature: 72F/22.2C

Relative Humidity: 42 %

Barometric Pressure: N/A

This item meets published specifications. It has been calibrated using standards traceable to the National Institute of Standards and Technology. Alternatively, accuracles have been derived from accepted values of natural physical constants, or derived by the ratio type of self-calibration techniques. This certificate may be reproduced in full. Partial reproduction may be done only with written prior consent. All calibration activities are performed in compliance with ANSI NCSL Z540.3-2006, ISO 10012, and MIL-STD-45662A.

FLW Service Corporation

5672 Bolsa Avenue Huntington Beach, CA 92649 (800) 576-6308 Fax: (714) 622-2002 Issued On November 15, 2012 By:

Ygracio Garcia, Technician

FORM P370-15 2 Mar 2012



FLW Service Corporation

5672 Bolsa Avenue Huntington Beach, CA 92649 Ph 714-751-7512 Fax 714-755-7332 http://www.flw.com

Job/Traceability #	· 108611 001
JOD/ Haccapility #	100044.001

DATA REPORT

ID: 8966476

Date:l	1/15/12		
Unit of Measurement:		PS	1
Range:	0	to	300
UUT Accuracy:		0.5	% FS
UUT Resolution:		0.1	PSI

STANDARD READING PS1	AS FOUND PSI	ERROR **		UUT AS LEFT PS1	ERROR	
0	0.0	0.000	Pass	0.0	0.000	Pass
60	60.1	0.033	Pass	60.1	0.033	Pass
120	120.0	0.000	Pass	120.0	0.000	Pass
180	180.0	0.000	Pass	180.0	0.000	Pass
240	240.0	0.000	Pass	240.0	0.000	Pass
300	300.0	0,000	Pass	300.0	0.000	Pass
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Remarks:			
Data Taken By:	ygracio	Amei	

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June 2006