



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Flow Management Devices, LLC
5225 South 37th Street, Suite 4, Phoenix, AZ 85040
4720 Vista Rd., Pasadena, TX 77504
203 Hershinger Rd., Moon Township, PA 15108

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Calibration of Volume for Captive Displacement Provers, Volumetric Test Measure and Volumetric Provers
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

June 11, 2012

Revision Date:

September 30, 2022

Issue Date:

September 11, 2022

Accreditation No.:

73638

Expiration Date:

October 31, 2024

Certificate No.:

L22-601-R1

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Flow Management Devices, LLC

5225 South 37th Street, Suite 4, Phoenix AZ 85040

4720 Vista Rd., Pasadena, TX 77504

203 Hershinger Rd., Moon Township, PA 15108

Contact Name: Mr. Adam Smith Phone: 602-233-9887

Accreditation is granted to the facility to perform the following calibrations:

5225 South 37th Street, Suite 4, Phoenix, AZ 85040

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Captive Displacement Provers ANSI 150 to 600 Pressure Rating ^F	0.5 gal	0.075 % of Reading	Gravimetric Water Draw Procedure Class 1 Weights Ohaus EX3500 Scale
Captive Displacement Provers ANSI 150 to 00 Pressure Rating ^F	0.7 gal	0.054 % of Reading	
Captive Displacement Provers ANSI 150 to 900 Pressure Rating ^F	1 gal	0.038 % of Reading	
	2 gal	0.019 % of Reading	
	4 gal	0.011 % of Reading	
	5 gal	0.01 % of Reading	
	5 gal	0.03 % of Reading	Gravimetric Water Draw Procedure Class 1 Weights Sartorius Combits 3
	10 gal	0.015 % of Reading	
	15 gal	0.011 % of Reading	
	20 gal	0.008 % of Reading	
	25 gal	0.007 % of Reading	
	60 gal	0.006 % of Reading	
	75 gal	0.009 % of Reading	
	90 gal	0.008 % of Reading	
	100 gal	0.01 % of Reading	
	126 gal	0.008 % of Reading	
	140 gal	0.011% of Reading	
168 gal	0.009 % of Reading		
Captive Displacement Provers ANSI 150 to 1 500 Pressure Rating ^F	30 gal	0.006 % of Reading	
	40 gal	0.005 % of Reading	



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Accreditation is granted to the facility to perform the following calibrations:

14730 Vickery Dr., Houston, TX 77032

Mechanical

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Captive Displacement Provers ANSI 150 to 600 Pressure Rating ^{FO}	0.5 gal	0.075 % of Reading	Gravimetric Water Draw Procedure Class 1 Weights Ohaus EX3500 Scale
Captive Displacement Provers ANSI 150 to 00 Pressure Rating ^{FO}	0.7 gal	0.054 % of Reading	
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203 Hershinger Rd., Moon Township, PA 15108

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1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.



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Accreditation is granted to the facility to perform the following calibrations:

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
4. The presence of a superscript O means that the laboratory performs testing of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this testing onsite at the customer's location.
5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratory's fixed location.