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March 1, 2022

BADGER METER INC
4545 W BROWN DEER RD
MILWAUKEE WI 53223

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 8064464

Your Reference No.: RENEWAL OF CRN#0F14981.5 (ONT) , 0F12298.2 (ABSA)

Registered to: BADGER METER INC

Dear TODD PAUL,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0F14981.5R1

Main Design No.: Hedland Flow Meters per Scope of Registration attached to the Statutory Declaration

Expiry Date: Mar 01, 2032

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Zivko Gacevic , P. Eng.
Engineer, BPV
Tel. : +1 416-734-3429
Email : zgacevic@tssa.org



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Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



Hedland[®]

Variable Area Flow Meters

STATUTORY DECLARATION

Registration of Fittings

I, Michael Wusterbarth, Director - Engineering Flow Instrumentation

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Badger Meter, Inc.

(Name of Manufacturer)

Located at 8635 Washington Ave., Racine, WI 53406-1580

(Plant Address)

262-639-6770

(Telephone No.)

n/a

(Fax No.)



do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;



or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3 & NFPA T2.6.R1 as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO9001:2015

which has been verified by the following authority, BSI Assurance

The items covered by this declaration, for which I seek registration, are category F type fittings. In support of this application, the following information and/or test data are attached as follows:

Calculations BP628/8H; Hedland Canadian Registration Flow Meter Catalog, Model assembly and detail parts drawings

(drawings, calculations, test reports, etc.)

Declared before me at RACINE

in the STATE OF WISCONSIN

of USA

the 13 day of DECEMBER AD 20 21

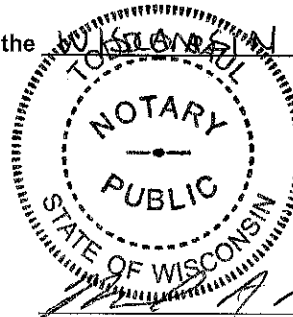
Commissioner for Oaths:

TODD A. PAUL

(Printed name)

Todd A. Paul

(Signature)



(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category 'F'

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: **Mar. 1, 2032**

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: **0F14981.5R1**

Signed: Tacuma Z...

Date: **March 1, 2022.**

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

PV 09553 (04/17)

Note: See attached document for Scope of Registration.

RACINE FEDERATED INC. - HEDLAND DIVISION**HEDLAND VARIABLE AREA FLOW METER HOUSINGS, SUMMARY OF ADDITIONAL PRESSURE TESTING****TESTED HOUSINGS WITH THIRD PARTY VERIFICATION**

	HOUSING BODY	HOUSING CAP	BURST WALL O.D.	BURST WALL I.D.	PORT TYPE	FAILURE MODE	BURST PRESSURE
H2-1-4HSG-NPT	HN100009	HN101314	0.808*	0.534*	¼ NPTF	O-RING SEAL	39,308 PSI
H6-1-2HSG-NPT	HN100021	HN101300	1.305	1.001	½ NPTF	LONG WALL BURST	22,503 PSI
H7-3-4HSG-NPT	HN100033	HN101296	1.688	1.378	¾ NPTF	LONG WALL BURST	17,224 PSI
H8-1-2HSG-NPT	HN100069	HN100355	2.871	2.378	1½ NPTF	LONG WALL BURST	14,665 PSI

*BASED UPON THE OTHER SAMPLES THIS IS THE ASSUMED BURST WALL IF THE O-RING HAD SURVIVED

SIMILAR HOUSINGS BURST RATED BY ANALOGY

	HOUSING BODY	HOUSING CAP	BURST WALL O.D.	BURST WALL I.D.	PORT TYPE	ANALOGIZED FAILURE MODE	BURST RATING
H2-1-4HSG-SAE	HN100013	HN101317	0.808	0.534	#6 SAE	LONG WALL BURST	>39,308 PSI
H6-1-2HSG-SAE	HN100025	HN101303	1.305	1.001	#10 SAE	LONG WALL BURST	22,503 PSI
H6-1-4HSG-NPT	HN100272	HN101284	1.305	1.001	¼ NPTF	LONG WALL BURST	22,503 PSI
H6-1-4HSG-SAE	HN100276	HN101288	1.305	1.001	#6 SAE	LONG WALL BURST	22,503 PSI
H7-3-4HSG-SAE	HN100037	HN101297	1.688	1.378	#12 SAE	LONG WALL BURST	17,224 PSI
H7-1-0HSG-NPT	HN100045	HN101323	1.688	1.378	1 NPTF	LONG WALL BURST	17,224 PSI
H7-1-0HSG-SAE	HN100049	HN100080	1.688	1.378	#16 SAE	LONG WALL BURST	17,224 PSI
H8-1-4HSG-NPT	HN100057	HN100352	2.871	2.378	1¼ NPTF	LONG WALL BURST	14,665 PSI
H8-1-4HSG-SAE	HN100061	HN100353	2.871	2.378	#20 SAE	LONG WALL BURST	14,665 PSI
H8-1-2HSG-SAE	HN100073	HN100356	2.871	2.378	#24 SAE	LONG WALL BURST	14,665 PSI

CONCLUSION:

THE ANALOGIZED HOUSINGS ARE IDENTICAL TO THE TESTED HOUSINGS IN THE AREA OF THE FAILURE; THE DIFFERENCES ARE IN THE PORT TYPES.

THIS IS PART OF CRN

0F14981.5R1

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety
Program