

**REGISTRATION OF A PRESSURE FITTING DESIGN**

04-Apr-22

TSSA  
345 Carlingview Drive  
Toronto, Ontario  
M9W 6N9**Attention: Tanya Francis****File Number: 13015 [ 0 F]****Re: Manufacturer: Badger Meter Inc.**  
**Item: Hedland Flow Meters**  
**Catalog or Drawing: Per Scope of Registration**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**0F14981.53                      Expiry Date: March 1, 2032**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.  
Codes and Standards Compliance**Remarks:**

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

CRN renewal - previously registered in Saskatchewan through CSA.



Technical Standards and Safety Authority  
345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
www.tssa.org

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



## 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

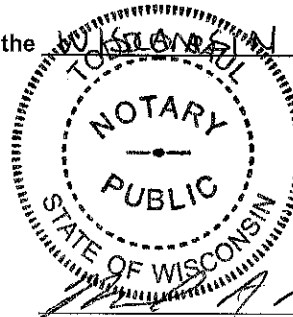
the 13 day of DECEMBER AD 20 21

Commissioner for Oaths:

TODD A. PAUL

(Printed name)

(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 \_\_\_\_\_.

CRN: \_\_\_\_\_

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_

**Technical  
Safety Authority**  
of Saskatchewan

Registration No. OF14981.53

File No. 13015

Registered

Date: April 4, 2022

Expiry Date: March 1, 2032

Codes & Standards Compliance Office

**NOTE: This registration expires on:** \_\_\_\_\_

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

**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.

	
Registration No.	0F14981.53
File No.	13015
Registered	
Date:	April 4, 2022
Expiry Date:	March 1, 2032
Codes & Standards Compliance Office	

**THIS IS PART OF CRN**

0F14981.5R1

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety  
Program