



To:	TSSA	From:	Janet Townsend
Company:	Badger Meter, Inc.	Phone:	416-747-4291
Pages:	7	Location:	Toronto
Our File:	ANR-4665	Date:	October 20, 2017

Your File: 2128982

**Subject: Request for Design Registration**

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Badger Meter, Inc. These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces. The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0F19333.56.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

A handwritten signature in blue ink that reads 'Janet Townsend'.

**Janet Townsend**  
Program Manager  
CSA Group

178 Rexdale Blvd.  
Toronto, ON, M9W 1R3  
Canada  
[www.csagroup.org](http://www.csagroup.org)

**Statutory Declaration Registration of Fittings****(a) Design Qualification**I<sup>1</sup> Micheal Wusterbarth

(Name of applicant)

Director of Engineering – Flow Instrumentation

(Position eg, president, plant manager, chief eng.)

of Badger Meter, Inc.

(name of company)

Located at 15555 N 79<sup>th</sup> Place Scottsdale, AZ 85260

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers &amp; Pressure Vessels Act:

☒ comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which they are required:

Or

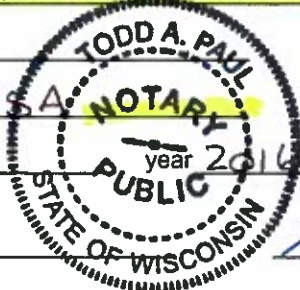
☐ are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with \_\_\_\_\_ code or standard, and are designed to the best current engineering practice, as shown by the supporting test data.
**(b) Quality control of Manufacture**I further declare the manufacture of these fittings is controlled by a quality control program that complies with the requirements of AS9100, and has been verified by the following authority or authorized agency BSIThe fittings<sup>2</sup> covered by this declaration, for which I seek registration, are Precision & Exact brand turbine flowmeters

In support of the application, the following information, calculations and/or test data are attached:

Precision & Exact brand meter body drawings, Precision & Exact brand calculations sheetsDeclared before me at RACINEIn the WISCONSIN of USAThis 19 day of MAY

month

(A commissioner for oaths)



I.D. # 206323

EXP. NOV. 02, 2018

Signature of Declarer

**For Official Use Only**The application is accepted for registration in Category F in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

EXPIRY DATE: APRIL 24, 2027Registered Number CRN CSA-0F19333.56

For the Chief Inspector

Date

A. BANWATISEPTEMBER 28, 2017<sup>1</sup> Three completed copies of the Statutory Declaration form, together with two copies of Catalogues, Drawings or Bulletins illustrating the above fittings, shall be submitted.<sup>2</sup> All fittings are required to be registered in the name of the Manufacturer.<sup>3</sup> This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced.



CRN: CSA-OF19333.56



2202 2nd Ave.  
Regina, SK S4R 1K3  
toll Free: (866)530-8599  
toll Free: (866)760-9255  
tollerpermits@tsask.ca  
Website: www.tsask.ca

Registration Process administered by  
CSA Group per CSA B51

### Statutory Declaration (Registration of Fittings)

TSK-1008

## I. Declaration Information

**Micheal Wusterbarth**

**Director of Engineering - Flow Instrumentation**

(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)

of: Badger Meter, Inc.

(name of manufacturer)

**located at:** 15555 N 79th Place

**Scottsdale, AZ**

85260

(Plant Address – Apt/Street)

(City Prov)

(Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

☉ Comply with the requirements of ASME B31.3 which specifies the dimensions,  
 (title of recognized North American Standard)  
 Materials of construction, pressure / temperature ratings and identification marking of the fittings, or

☐ Are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, BSI - AS9100 & ISO9001 as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Precision and Exact brand turbine flow meters

In support of this application, the following information, calculations and / or test data are attached:

**Meter body drawings, Precision and Exact brand calculations sheets**

## II. Declaration

DECLARED before me at RACINE WISCONSIN of USA

this 10 day of DECEMBER 2012

```
(print name)
```

(Signature of Commissioner of Oaths)



(Signature)

1.0. # 206323

Exp. 11-2-2018

### III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category F

CSA-OF19333.56

(Registration Number)

09/28/2017

(Date Registered - MM/DD/YYYY) **CSA**  
(For the Administrator / Chief Inspector) **CSA**

04/24/2027

(Expiry Date – MM DD YYYY)

A. BANWA 77



**Note:** See the attachment for the scope of the registration.

TSK-1008  
Rev. 10/2012  
Page 1 of 1



345 Carlingview Drive  
Toronto, Ontario M9W 5N9  
Tel: 416 734 3300  
Fax: 416 231 1625  
Toll Free: 1 877 682 8772

[www.tssa.org](http://www.tssa.org)

April 24, 2017

TODD PAUL  
BADGER METER INC  
8635 WASHINGTON AVE  
RACINE WI 53406  
US

Service Request Type: BPV-Fitting Registration  
Service Request No.: 1880896  
Your Reference No.: COX PRECISION AND EXACT BRAND METERS  
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 No.: 0F19333.5**  
**Main Design No.: COX PRECISION & COX EXACT BRAND TURBINE FLOW METERS-  
ITEM LIST BP628/2, CATALOG, TYPICAL HOUSING DRAWINGS**  
**Expiry Date: 24-Apr-2027**

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

*Note: The registered items shall be pressure tested per ASME B31.3 standard, prior to putting into services.*

*Refer to Doc# BP628/2 for scope of registration and pressure rating.*

The stamped copy of the approved registration and the invoice are mailed separately. 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](mailto: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,

Ruiming You, P.Eng.  
Mechanical Engineer, BPV  
Tel.: 416-734-3428  
Fax: 416-231-6183  
Email: [ryou@tssa.org](mailto:ryou@tssa.org)



**BADGER METER INC. - COX PRECISION BRAND**

COX PRECISION FLOW METERS - PRESSURE DESIGN CALCULATIONS PER ASME/ANSI B31.3

17-Dec-14

MODEL NUMBER	END FITTINGS	BODY PART No.	NOMINAL O.D. (ins)	BORE DIA (ins)	MATERIAL SST TYPE	PRESSURE (PSI)	TEMP. °F	ASME B31.3 VALUES				ACTUAL WALL
								S	Y	E	t min	
CPT84-AN-C-C01	1/2" AN	82C0001R0010	1.120	0.266	316	4500	-150	16700	0.4	0.8	0.166	0.427
CPT84-AN-C-C02												
CPT84-AN-C-C03												
CPT84-AN-C-C04												
CPT84-AN-C-C05												
CPT84-AN-C-C06												
CPT84-AN-C-C07												
CPT84-AN-C-C08	1/2" AN	82C0001R0010	1.120	0.266	316	4500	-150	16700	0.4	0.8	0.177	0.427
CPT84-AN-C-C09												
CPT84-AN-C-M01												
CPT84-AN-C-C01												
CPT84-AN-C-C02												
CPT84-AN-C-C03												
CPT84-AN-C-C04												
CPT84-AN-C-C05	1/2" AN	82C0001R0010	1.120	0.266	316	4500	-150	16700	0.4	0.8	0.182	0.427
CPT84-AN-C-C06												
CPT84-AN-C-C07												
CPT84-AN-C-C08												
CPT84-AN-C-C09												
CPT84-AN-C-M01												
CPT84-AN-C-C01												



ATTACHMENT TO

C.R.N.

CSA-0F19333.06

Signed:

CSA

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF  
CRN OF 19333.5Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program

1/2" NP 1.120

- TOTAL 32 PAGES

- PRESSURE RATING AT ROOM TEMP AS LISTED.

- FILLET WELD IN DRAWING REFER TO THROAT DIMENSION.

DS 4/24/17



# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - AS9100 REV C AND ISO 9001:2008

This is to certify that:

Badger Meter Inc.  
15555 N. 79th Place  
Scottsdale  
Arizona  
85260  
USA

Holds Certificate No:

**FM 78587**

and operates a Quality Management System which complies with the requirements of AS9100 REV C AND ISO 9001:2008. BSI Group America Inc. is accredited under the Industry Controlled Other Party Scheme and the assessment was performed in accordance with the requirements of AS9104/1 Rev 2012-01 for the following scope:

Design, assemble and test flow meter measurement systems consisting primarily of turbine flow meters and flow computers.



For and on behalf of BSI:

Reg Blake, VP Regulatory Affairs, BSI Group America Inc.

Original Registration Date: 03/24/2004

Reissue Date: 12/17/2015

Issue Date: 02/15/2016

Expiry Date: 09/14/2018

Page: 1 of 1



...making excellence a habit.™

This certificate remains the property of BSI and shall be returned immediately upon request.

An electronic certificate can be authenticated [online](http://www.bsigroup.com/ClientDirectory). Printed copies can be validated at [www.bsigroup.com/ClientDirectory](http://www.bsigroup.com/ClientDirectory). To be read in conjunction with the scope above or the attached appendix.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP.  
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
Managed by: BSI Group America Inc., 12950 Worldgate Drive, Suite 800, Herndon, VA 20170-6007 USA +1 703 437 9000



March 2017

## **CRN – Canadian Registration Numbers - Saskatchewan**

The Province of Saskatchewan participates with Quebec and the Canadian Standards Association (CSA Group) for the registrations of “Fittings”.

Per an agreement with CSA Group in April 1998, Saskatchewan recognizes registrations done by CSA Group and accepts such fittings for use in Saskatchewan.

The letters “CSA” are applied as a prefix to the CRN to indicate which “Fittings” have been registered in this manner. You should inform your clients of this additional marking requirement and that “Fittings” registered by CSA Group are accepted for use in Saskatchewan Canada.