



To:	TSSA	From:	Janet Townsend
Company:	Watson McDaniel	Phone:	416-747-4291
Pages:	11	Location:	Toronto
Our File:	ANR-5232	Date:	February 4, 2019

Your File: 2461148

**Subject: Request for Design Registration**

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Watson McDaniel. 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-0E20868.56.

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)

REGISTERED



CRN: CSA-0E20868.56

Statutory Declaration Registration of Fittings

Registration Process administered by CSA Group per CSA B51



(a) Design Qualification

1 ROBERT HICKEY

(Name of applicant)

GENERAL MANAGER

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

of WATSON MCDANIEL

(name of company)

Located at 428 JONES BLVD., POTTSTOWN, PENNSYLVANIA, 19464

(plant address)

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

[X] comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required: ASME B31.1 & B31.3

Or

[ ] are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with \_\_\_\_\_ code and 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 which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency HSB

The fittings<sup>2</sup> covered by this declaration, for which I seek registration, are CATEGORY E STEAM TRAPS / LIQUID DRAINERS

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

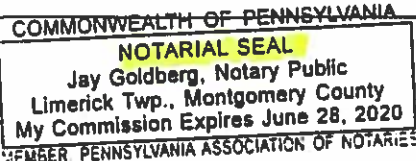
SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

Declared before me at Pottstown

In the of State of Pennsylvania

The 30th day of October AD 2008

Signature of Commissioner for oaths



Signature of Declarer

For Official Use Only

The application is accepted for registration in Category E 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. Nov. 20. 2028

Registered Number CRN CSA-0E20868.56

For the Chief Inspector Date



R.W. Barnes Feb. 4. 2019

1 Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
2 All fittings are required to be registered in the name of the Manufacturer.
3 This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.





# Technical Safety Authority of Saskatchewan

REGISTERED



CRN: CSA-0E20868-56

Registration Process administered by CSA Group per CSA B51

2202 2nd Ave.  
Regina, SK S4R 1K3  
PH: (306)798-7112 Toll Free: (866)530-8599  
FAX: (306)787-9273 Toll Free: (866)760-9255  
Email: boilerpermits@tsask.ca  
Website: www.tsask.ca

## Statutory Declaration (Registration of Fittings)

TSK-1008

### I. Declaration Information

I, ROBERT HICKEY  
GENERAL MANAGER  
(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: WATSON MCDANIEL  
(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



located at: 428 JONES BLVD POTTSTOWN, PENNSYLVANIA 19464, U.S.A.  
(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 B31.1, 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, ISO 9001: 2015 HSB 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 CATEGORY E STEAM TRAPS / LIQUID DRAINERS

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

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

### II. Declaration

DECLARED before me at Pottstown In the State of Pennsylvania  
this 30th day of October, 2018

Jay Goldberg  
(print name)

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL

Jay Goldberg, Notary Public

Limerick Twp., Montgomery County

My Commission Expires June 28, 2020

(Signature of Commissioner of Oaths)

(Signature)

MEMBER PENNSYLVANIA ASSOCIATION OF NOTARIES

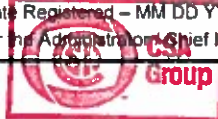
### III. Office Use Only

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 E

CSA-0E20868-56  
(Registration Number)

Feb. 4, 2019  
(Date Registered - MM DD YYYY)  
(For the Administrator / Chief Inspector)

Nov. 20, 2028  
(Expiry Date - MM DD YYYY)  
R.W. Barnes



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

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



345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
Tel: 416 734 3300  
Fax: 416 231 1626  
Toll Free: 1 877.682.8772

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

November 20, 2018

SCOTT ISLIP  
ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6  
CA

Service Request Type: BPV-Fitting Registration  
Service Request No.: 2443792  
Your Reference No.: R-0988  
Registered to: WATSON MCDANIEL

Dear SCOTT ISLIP,

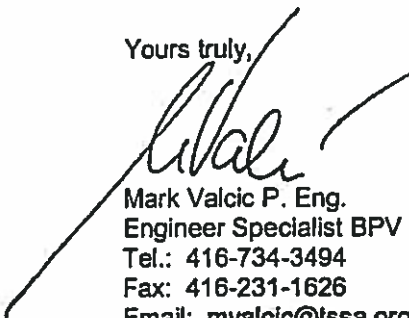
Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

**CRN No.:** 0E20868.5  
**Main Design No.:** Steam Trap and Liquid Drainer Series IB103X/ IB104X, WFT/ WLD1900, FTT/ WLD1400, FTE/ WLDE, & FT600/ WLD600 (see the attachment to the Statutory Declaration Forms for the scope of registration.)  
**Expiry Date:** 20-Nov-2028

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. 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,

  
Mark Valcic P. Eng.  
Engineer Specialist BPV  
Tel.: 416-734-3494  
Fax: 416-231-1626  
Email: [mvalcic@tssa.org](mailto:mvalcic@tssa.org)





WATSON MCDANIEL  
 428 JONES BLVD.  
 POTTSTOWN, PENNSYLVANIA  
 19464, U.S.A.

03-Nov-18

PAGE 1 OF 3

**SCOPE OF CRN REGISTRATION**

Product Description	Design Code	Material Specification	Model	Size Range	End Connection Inlet/Outlet	MAMP at 100°F. (psig)	MAMP at MAWT (psig)	Report Number
Inverted Bucket Steam Trap	ASME B31.1, ASME B31.3.	Cast Iron ASTM A126-B ASTM A48 CL. 30 ASTM A278 CL. 30 (Note 7)	IB1031	1/2", 3/4"	NPT	250 psig	250 psig at 450°F	R-09888A
			IB1032	1/2", 3/4", 1"	NPT			
			IB1033	1/2", 3/4"	NPT			
			IB1034	3/4", 1"	NPT			
			IB1041	1/2", 3/4"	NPT			
			IB1042	1/2", 3/4"	NPT			
			IB1044	3/4", 1"	NPT			
			IB1038S	1-1/4", 1-1/2"	NPT			
			WFT-15/30	3/4", 1", 1-1/4"	NPT			
			WFT-75/125	3/4", 1"	NPT			
Float and Thermostatic Steam Traps and Liquid Drainers	ASME B31.1, ASME B31.3.	Cast Iron ASTM A126-B ASTM A48 CL. 30 ASTM A278 CL. 30 (Note 7)	WFT-15/30	3/4", 1"	NPT	125 psig	125 psig at 450°F	R-09888B
			WFT-75/125	3/4", 1"	NPT			
			WFT-175/250	3/4", 1"	NPT			
			WFT-15/30	1-1/2"	NPT			
			WFT-75/125/175/250	1-1/4", 1-1/2"	NPT			
			WFT-XXX	2"	NPT			
			WLD191X-15/30	3/4", 1", 1-1/4"	NPT			
			WLD191X-90/150	3/4", 1"	NPT			
			WLD191X-200/250	3/4", 1"	NPT			
			WLD191X-15/30	1-1/2"	NPT			
WLD191X-90/150/200/250	1-1/4", 1-1/2"	NPT						
Float and Thermostatic Steam Traps and Liquid Drainers	ASME B31.1, ASME B31.3.	Ductile Iron ASTM A536 Grade 65-45-12 (Note 8)	WLD191X-XXX	2"	NPT	200 psig	200 psig at 450°F	R-09888C
			FIT	1/2"	NPT			
			FIT	3/4"	NPT			
			FIT	1"	NPT			
			FIT	1-1/2"	NPT			
			FIT	2"	NPT			
			WLD1400	1/2"	NPT			
			WLD1400	3/4"	NPT			
			WLD1400	1"	NPT			
			WLD1400	1-1/2"	NPT			
WLD1400	2"	NPT						

THIS IS PART OF  
 CRN E-20868.5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program  
 WJG  
 Nov. 20 18

(Note 8)  
 CSA Group  
 ATTACHMENT TO  
 CRN E-20868.5  
 Signed: *[Signature]*  
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3



WATSON MCDANIEL  
 428 JONES BLVD.  
 POTTSTOWN, PENNSYLVANIA  
 19464, U.S.A.

03-Nov-18

PAGE 2 OF 3

**SCOPE OF CRN REGISTRATION CONTINUED**

Product Description	Design Code	Material Specification	Model	Size Range	End Connection Inlet/Outlet	MAWP at 100°F. (psig)	MAWP at MAWT (psig)	Report Number
Float and Thermostatic Steam Traps and Liquid Drainers	ASME B31.1, ASME B31.3.	Ductile Iron ASTM A536 Grade 65-45-12 (Note 8)	FTE-20-17	2"	NPT	190 psig	190 psig at 450°F	R-0988D
			FTE-50-17	2"	NPT	190 psig	190 psig at 450°F	
			FTE-50-18	2-1/2"	NPT	165 psig	165 psig at 450°F	
			FTE-125-18	2-1/2"	NPT	165 psig	165 psig at 450°F	
			FTE-200-18	1-1/2"	NPT	200 psig	200 psig at 450°F	
			FTE-200-17	2"	NPT	190 psig	190 psig at 450°F	
			FTE-200-18	2-1/2"	NPT	165 psig	165 psig at 450°F	
			WLDE-20-17	2"	NPT	190 psig	190 psig at 450°F	
			WLDE-50-17	2"	NPT	190 psig	190 psig at 450°F	
			WLDE-50-18	2-1/2"	NPT	165 psig	165 psig at 450°F	
			WLDE-125-18	2-1/2"	NPT	165 psig	165 psig at 450°F	
			WLDE-200-16	1-1/2"	NPT	200 psig	200 psig at 450°F	
			WLDE-200-17	2"	NPT	190 psig	190 psig at 450°F	
			WLDE-200-18	2-1/2"	NPT	165 psig	165 psig at 450°F	
Float and Thermostatic Steam Traps and Liquid Drainers	ASME B31.1, ASME B31.3.	Carbon Steel ASTM A216-WCB	FT600-XX, WLD600-XX	3/4", 1", 1-1/2", 2"	NPT, Socket Weld, CL. 300 Flanged (Note 3,5)	370 psig	370 psig at 100°F 370 psig at 200°F 370 psig at 300°F 370 psig at 400°F 363 psig at 500°F 339 psig at 600°F 328 psig at 650°F 319 psig at 700°F 272 psig at 750°F	R-0988E
							285 psig (Note 4,5)	

THIS IS PART OF  
 CRN DE 20688.5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program  
*Walter Nov. 20/18*

CSA Group  
 ATTACHMENT TO  
 C.R.N. CSA-0E-20688.5-26  
 Signed: *Walter*  
 178 Hazledale Boulevard, Toronto, ON Canada M9W 1R3

WATSON MCDANIEL  
428 JONES BLVD.  
POTTSTOWN, PENNSYLVANIA  
19464, U.S.A.



SCOPE OF CRN REGISTRATION CONTINUED

- Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature.
- Note 2: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP may be limited by the seat or seal material or other considerations. Please consult Watson McDaniel literature.
- Note 3: When ASME B16.5 CL. 300 flanges are used the pressure-temperature ratings are limited to the values stated. These values are less than the ASME B16.5 Table II-2-1.1 CL. 300 flange ratings.
- Note 4: Pressure Temperature ratings in accordance with ASME B16.5 Table II-2-1.1 CL. 150.
- Note 5: Pipe used in flanged connections shall be carbon steel SA106-B schedule 80 minimum thickness per ASME B36.10M. Flanges shall be carbon steel SA105 or any other ASME B16.5 Table II-2-1.1 listed material.
- Note 6: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.
- Note 7: ASTM A128-B and ASTM A48 Class 30 are limited to 406°F maximum temperature when used under the ASME B31.1 code.
- Note 8: In accordance with ASME B31.1 para 123.1.2(D) when this product is used under the ASME B31.1 code the owner must accept the use of the following non listed materials:  
- Ductile Iron ASTM A536 Grade 65-45-12.

In all cases the above unlisted materials shall only be used for nonboiler external piping.

4 of 4

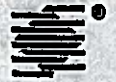


**ATTACHMENT TO**  
C.R.N. CSA-0520868.5

Signed: [Signature]  
178 Bendate Boulevard, Toronto, ON Canada M9W1R3

**THIS IS PART OF**  
**CRN 0520868.5**  
Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program

*Urban* Nov. 10 / 18



HSB Registration Services  
595 E. Swedesford Road  
Wayne, Pennsylvania 19087

# Certificate of Registration

*This is to certify that:*

**Watson McDaniel Company**  
**428 Jones Boulevard**  
**Limerick Airport Business Center**  
**Pottstown, PA 19464**

*Has established and applied an Quality Management System for:*  
**Design, Manufacture, and Supply of Quality**  
**Steam & Fluid Specialty Products**

*Proof has been furnished that the requirements according to*  
**ISO 9001:2015**  
*are fulfilled.*

**Certificate Number: Q 14**

**Initial Audit Date: August 9, 1995**

**Effective Date: October 26, 2016**

**Expiration Date: October 25, 2019**

**Revision Date: September 12, 2018**

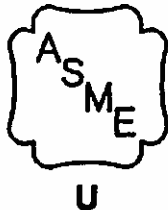
  
**Signed on behalf of HSB Registration Services**



Hartford Steam Boiler







# CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

**COMPANY:**


**Watson McDaniel  
428 Jones Blvd.  
Pottstown, Pennsylvania 19464**

**SCOPE:**

**Manufacture of pressure vessels at the above location only**

**AUTHORIZED: October 2, 2017**  
**EXPIRES: October 25, 2020**  
**CERTIFICATE NUMBER: 29,263**

  
Board Chair, Conformity Assessment

  
Managing Director, Conformity Assessment





# CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

**COMPANY:**


**Watson McDaniel  
428 Jones Blvd.  
Pottstown, Pennsylvania 19464**

**SCOPE:**

**Manufacture of miniature pressure vessels at the above location only**

**AUTHORIZED: October 2, 2017**  
**EXPIRES: October 25, 2018**  
**CERTIFICATE NUMBER: 29,264**

  
Board Chair, Conformity Assessment

  
Managing Director, Conformity Assessment



178 Rexdale Blvd.  
Toronto, Ontario  
Canada M9W 1R3  
Tel: (416) 747-4000  
[www.csagroup.org](http://www.csagroup.org)



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.