



To:	TSSA	From:	Janet Townsend
Company:	Watson McDaniel	Phone:	416-747-4291
Pages:	9	Location:	Toronto
Our File:	ANR-5309	Date:	March 28, 2019

Your File: 2525768

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-0E21133.56.

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

REGISTERED
CRN: CSA-OE21133.56
CSA Group per CSA B51



Statutory Declaration Registration of Fittings



(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:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required;
- 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 9001:2008, and has been verified by the following authority or authorized agency HSB

The fittings² covered by this declaration, for which I seek registration, are CATEGORY E STEAM TRAPS

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 22nd day of JANUARY AD 2019
Jay Goldberg
(commissioner for oaths)

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Jay Goldberg, Notary Public
Limerick Twp., Montgomery County
My Commission Expires June 28, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

[Signature]
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. Feb-21-2029

Registered Number CRN CSA-OE21133.56 For the Chief Inspector A. BANWATT
Date May-27-2019



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.

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





Technical Safety Authority of Saskatchewan

REGISTERED



CRN: CSA-0E21133.56

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)

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



of: WATSON MCDANIEL
(name of manufacturer)

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, Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
(title of recognized North American Standard)
- 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: 2008 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

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 22nd day of January, 2019

Jay Goldberg
(print name)
Jay Goldberg
(Signature of Commissioner of Oaths)

COMMONWEALTH OF PENNSYLVANIA
(Signature) Jay Goldberg
NOTARIAL SEAL
Jay Goldberg, Notary Public
Limerick Twp., Montgomery County
My Commission Expires June 28, 2020
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-0E21133.56
(Registration Number)

Mar. 27. 2019
(Date Registered - MM DD YYYY)
(For the Administrator / Chief Inspector)

Feb. 21. 2029
(Expiry Date - MM DD YYYY)
A. BANWATT



*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

February 21, 2019

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

Service Request Type: BPV-Fitting Registration
Service Request No.: 2498916
Your Reference No.: R-1036
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: 0E21133.5
Main Design No.: STEAM TRAPS
Expiry Date: 21-Feb-2029

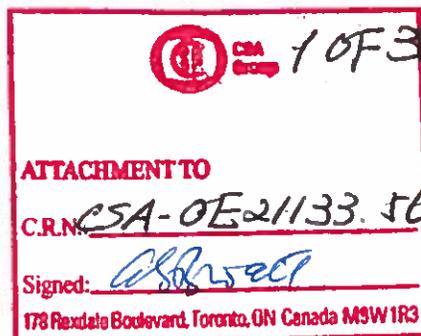
Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

See two sheet of attachment to Statutory Declaration for Scope of registration. Material A 582-416 shall have a minimum yield strength of 40,000 psi at a minimum tensile strength of 70,000 psi.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, 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,

Kaivan Kia P. Eng., PMP
Mechanical Engineer, BPV
Tel. : 416-734-3457
Fax : 416-231-6183
Email : kkia@tssa.org





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

18-Jan-19

PAGE 1 OF 2

SCOPE OF CRN REGISTRATION

Product Description	Design Code	Material Specification	Series	Size Range	End Connection Inlet/Outlet	MAWP at 100°F, (psig)	MAWP at MAWT (psig)	Report Number
Thermodynamic Steam Trap	ASME B16.34, ASME B31.1, ASME B31.3.	Chrome Moly ASTM A182-F22 Class 3	TD3600	1/2", 3/4", 1"	Socket Weld, Butt Weld (Note 6)	3600 psig	3600 psig at 975°F, 2200 psig at 1025°F	R-1036A
Thermodynamic Steam Trap	ASME B16.34, ASME B31.1, ASME B31.3.	Chrome Moly ASTM A217-WC9 (Note 5)	TD900	1/2", 3/4", 1"	NPT, Socket Weld	900 psig	900 psig at 842°F	R-1036B
Steam/Liquid Vacuum Breaker	ASME B16.34, ASME B31.1, ASME B31.3.	Stainless Steel ASTM A479-316L	WVBSS	1/8" x 1/2"	NPT	300 psig	300 psig at 752°F	R-1036C
Thermodynamic Steam Trap	ASME B16.34, ASME B31.1, ASME B31.3.	Chrome Moly ASTM A182-F11-2, Stainless Steel ASTM A582-416, ASTM 473 UNS S30300 (Note 7)	TDF700	1/2", 3/4"	NPT, Socket Weld	650 psig	650 psig at 800°F	R-1036D
Thermodynamic Steam Trap	ASME B31.1, ASME B31.3.	Chrome Moly ASTM A217-WC9, Stainless Steel ASTM A582-416, ASTM 473 UNS S30300 (Note 5,7)	TD700	1/2", 3/4", 1"	NPT, Socket Weld	375 psig	375 psig at 800°F	R-1036E
Thermostatic Steam Trap / Air Vent	ASME B31.1, ASME B31.3.	Type 304L S.Steel ASTM A351-CF3	WT2000, WT2001, WT2003, AV2001, AV2003,	1/2", 3/4"	NPT	800 psig	800 psig at 750°F	R-1036F

THIS IS PART OF
CRN 0E21133.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

 29-F-3
 ATTACHMENT TO
 C.R.N. 0E21133.5
 Signed: *[Signature]*
 170 Riverside Boulevard, Toronto, ON Canada M5W 1R3



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

18-Jan-19

PAGE 2 OF 2

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:** For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.
- Note 4:** 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:
 - Stainless Steel ASTM A582-416
 - Stainless Steel ASTM A473 UNS S30300
 In all cases the above unlisted materials shall only be used for nonboiler external piping.
- Note 5:** Steam trap size 1" is manufactured by welding an adapter constructed from either Stainless Steel ASTM A479-316L or ASTM A351-CF3M to the 3/4" Chrome Moly valve body.
- Note 6:** Buttweld end connections shall meet the requirements of ASME B16.25. The pressure-temperature ratings of buttweld ends shall be calculated in accordance with ASME B31.3 para. 304.1 and/or ASME B31.1 para. 104.1. The calculated butt weld ratings are limited to the steam trap ratings stated in this Scope of CRN Registration.
- Note 7:** The material ASTM A582-416 shall have a minimum yield strength of 40,000 psi and a minimum tensile strength of 70,000 psi.



39F3

ATTACHMENT TO

C.R.N. CSA-0E21133.56

Signed: *[Signature]*

178 Dundas Boulevard, Toronto, ON Canada M5W 1R3

THIS IS PART OF

CRN 0E211335

Technical Standard: ASME Authority
 Centers C. Pressure Vessels
 Safety Program

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.

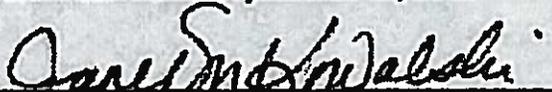
Certificate Number: Q 14

Initial Audit Date: August 9, 1995

Effective Date: October 26, 2016

Expiration Date: October 25, 2019

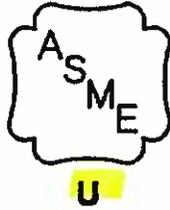
Revision Date: September 12, 2018


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



178 Rexdale Blvd.
Toronto, Ontario
Canada M9W 1R3
Tel: (416) 747-4000
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.