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Toronto, Ontario  
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Toll Free: 1.877.682.8772  
[www.tssa.org](http://www.tssa.org)

May 14, 2019

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

Service Request Type.: BPV-National AB  
Service Request No.: 2525618  
Your Reference No.: R-1036  
Registered to.: WATSON MCDANIEL

Dear SCOTT ISLIP,

Please find enclosed the original response from AB, registered under the CRN No.: 0E21133.52.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.  
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail [customerservices@tssa.org](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis  
Administrative Assistant\_ BPV Engineering  
Tel. : 416-734-3423  
Fax : 416-231-6183  
Email : [tfrancis@tssa.org](mailto:tfrancis@tssa.org)

April 16, 2019

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

**Email:** tfrancis@tssa.org

The design submission, tracking number 2019-01700, originally received on March 08, 2019 was surveyed and accepted for registration as follows:

**CRN :** 0E21133.52

**Accepted on:** April 16, 2019

**Reg Type:** NEW DESIGN

**Expiry Date:** February 21, 2029

**Drawing No. :** STEAM TRAPS As Noted

**Fitting type:** STEAM TRAPS

Design registered in the name of : WATSON MCDANIEL COMPANY

Description	MAWP	Design Temperature
AS listed		

**The registration is conditional on your compliance with the following notes:**

*As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.1, ASME B31.3 and B16.34.*

- *This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.*
- *This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.*
- *Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3306 or fax (780) 437-7787 or e-mail Wangi@absa.ca.

Sincerely,

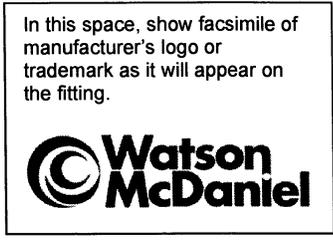


WANG, IAN, P. Eng.

DOP Cert. # DOP 00003137



STATUTORY DECLARATION Registration of Fittings



I, ROBERT HICKEY, GENERAL MANAGER (name of applicant) (position title) of WATSON MCDANIEL (name of manufacturer) located at 428 JONES BLVD., POTTSTOWN, PENNSYLVANIA, 19464 (plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

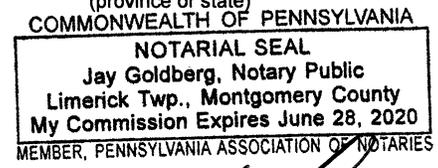
- comply with the requirements of ASME B31.1, B31.3 which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with attached (title of code of construction or other applicable document) 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 manufacture 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 manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY E STEAM TRAPS (brief description of fittings)

In support of this application, the following information, calculations and/or test data are attached: SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

DECLARED before me at Pottstown in the State of Pennsylvania this 22nd day of January, 2019

(print) Jay Goldberg (a Commissioner of Oaths or Notary Public) (sign) Jay Goldberg (a Commissioner of Oaths or Notary Public)



(signature of applicant)

For ABSA Office Use Only:

NOTES: To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category E Registration Number: OE21133.52 Date Registered: APR 16 2019 Expiry Date: Feb 21, 2029



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

18-Jan-19

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**SCOPE OF CRN REGISTRATION**

Product Description	Design Code	Material Specification	Series	Size Range	End Connection Inlet/Outlet	MAWP at 100°F,	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

**ABSA**  
 SAFETY CODES ACT - PROVINCE OF ALBERTA  
 REGISTRATION OF FITTINGS  
**0E21133.52**  
 REGISTRATION NO. **0E21133.52**  
 DWG. NO. or CAT. NO. As Listed  
 TYPE OF FITTINGS STEAM TRAPS  
**APR 16 2019**  
 INITIALS lw  
 Date Jan Wang

*Wang*

**0E21133.52**

**0E21133.52**



**WATSON MCDANIEL**  
428 JONES BLVD.  
POTTSTOWN, PENNSYLVANIA  
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**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.

0E21133.52