



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



TECHNICAL STANDARDS & SAFETY AUTHORITY
 14th Floor, Centre Tower
 3300 Bloor Street West
 Toronto, Ontario
 Canada M8X 2X4

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, ROBERT HICKEY, GENERAL MANAGER

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of WATSON MCDANIEL

(Name of Manufacturer)

Located at 428 JONES BLVD., POTTSTOWN, PENNSYLVANIA, 19464 610-495-5131 610-495-5134
 (Plant Address) (Telephone No.) (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 ASME B31.1, ASME B31.3

(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 _____ 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 ISO 9001:2008 which has been verified by the following authority, HSB

The items covered by this declaration, for which I seek registration, are category E STEAM TRAPS type fittings. In support of this application, the following information and/or test data are attached as follows:
SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

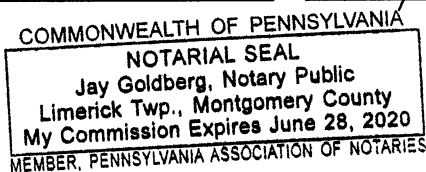
(drawings, calculations, test reports, etc.)

Declared before me at Pottstown in the State of Pennsylvania
 the 22nd day of January AD 2019.

Commissioner for Oaths:

Jay Goldberg
 (Printed name)

Jay Goldberg
 (Signature)



[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 E.

CRN: OE21133.5

Registered by: K. Kia

Dated: Feb 21/19

NOTE: This registration expires on Feb 21/2029

REGISTERED

CRN: OE21133.5

Registered by: K. Kia

Dated: Feb 21/19

See registration letter for notes, scope and conditions. KK 2/21/19



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

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



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18-Jan-19

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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.

