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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. 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



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

(Plant Address)

610-495-5131

(Telephone No.)

610-495-5134

(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 9001:2015 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 / DRAINERS 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 30th day of October AD 20 18.

Commissioner for Oaths:

JAY Goldberg
(Printed name)

[Signature]
(Signature)

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 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: OE20868.5

Registered by: MARK VALCIC, P.ENG.

Dated: Nov. 20, 2018

NOTE: This registration expires on Nov. 20, 2028

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: OE20868.5

Signed: [Signature]

Date: Nov. 20, 2018

PV 09/13/17/01

NOTE: STEAM TRAPS & LIQUID DRAINERS SERIES: 1B103X/1B104X, WFT/1NLD1900, FTT/1WLD1400, FTE/1WLDE & FT600/1WLD600. SEE THE ATTACHED THREE (3) PAGES FOR THE SCOPE OF REGISTRATION.

[Signature]
 Nov. 20/18



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

03-Nov-18

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SCOPE OF CRN REGISTRATION

Product Description	Design Code	Material Specification	Model	Size Range	End Connection Inlet/Outlet	MAWP	MAWP at MAWT	Report Number
						at 100°F, (psig)	(psig)	
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-0988A
			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-175/250	3/4", 1"	NPT	125 psig	125 psig at 450°F	R-0988B
			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			
			WLD191X-XXX	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)	FTT	1/2"	NPT	200 psig	200 psig at 450°F	R-0988C
			FTT	3/4"	NPT			
			FTT	1"	NPT	300 psig	300 psig at 450°F	
			FTT	1-1/2"	NPT			
			FTT	2"	NPT			
			WLD1400	1/2"	NPT	200 psig	200 psig at 450°F	
			WLD1400	3/4"	NPT			
			WLD1400	1"	NPT	300 psig	300 psig at 450°F	
			WLD1400	1-1/2"	NPT			
			WLD1400	2"	NPT			

THIS IS PART OF
 CRN E20868.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program
 WJG Nov. 20/18



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

03-Nov-18

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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-200-16	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,	3/4", 1", 1-1/2"	NPT,	370 psig	370 psig at 100°F	R-0988E	
			WLD600-XX	2"	Socket Weld, CL. 300 Flanged (Note 3,5)	370 psig at 200°F	370 psig at 200°F		
						(Note 3,5)	370 psig at 300°F		370 psig at 300°F
							370 psig at 400°F		370 psig at 400°F
							363 psig at 500°F		363 psig at 500°F
							339 psig at 600°F		339 psig at 600°F
							328 psig at 650°F		328 psig at 650°F
							319 psig at 700°F		319 psig at 700°F
							272 psig at 750°F		272 psig at 750°F
							285 psig at 100°F		285 psig at 100°F
							260 psig at 200°F		260 psig at 200°F
							230 psig at 300°F		230 psig at 300°F
							200 psig at 400°F		200 psig at 400°F
							170 psig at 500°F		170 psig at 500°F
				140 psig at 600°F	140 psig at 600°F				
				125 psig at 650°F	125 psig at 650°F				
				110 psig at 700°F	110 psig at 700°F				
					95 psig at 750°F				

THIS IS PART OF
CRN 0120668.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program
Julian Nov. 20/18



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

03-Nov-18

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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:** 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 A126-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.

