

February 13, 2019

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

Email: tfrancis@tssa.org

The design submission, tracking number 2018-08245, originally received on December 12, 2018 was surveyed and accepted for registration as follows:

CRN : 0E19345.2

Accepted on: February 13, 2019

Reg Type: NEW DESIGN

Expiry Date: February 13, 2029

Drawing No. : SCOPE OF CRN REGISTRATION Rev 30JAN19

Fitting type: STEAM TRAP

Design registered in the name of : WATSON MCDANIEL COMPANY

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 and ASME B31.3.

- 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.

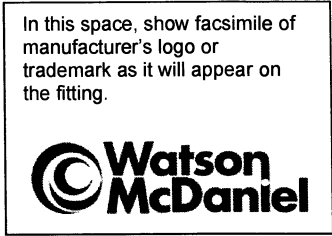
If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3388 or fax (780) 437-7787 or e-mail Liu@absa.ca.

Sincerely,



LIU, XING, P. Eng.
DOP Cert. No. D00008861

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.

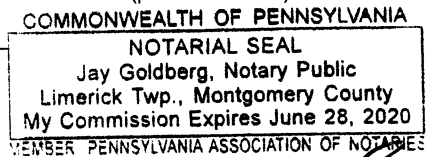
I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001:2015 HSB as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY E STEAM TRAPS / LIQUID DRAINERS (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 30th day of October, 2018

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

(sign) [Signature] (a Commissioner of Oaths or Notary Public)



[Signature] (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: DE19345.2 (Signature of the Administrator/SCO)

Date Registered: 2019-02-13 Expiry Date: 2029-02-13



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

30-Jan-19

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SCOPE OF CRN REGISTRATION

Product Description	Design Code	Material Specification	Model	Size Range	End Connection Inlet/Outlet	MAWP at 100°F, (psig)	MAWP 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	200 psig	200 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			
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", 1-1/4"	NPT	100 psig	100 psig at 450°F	R-0988B
			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			
			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	3/4"	NPT						
FTT	1"	NPT						
FTT	1-1/2"	NPT						
FTT	2"	NPT						
WLD1400	1/2"	NPT				160 psig	160 psig at 450°F	
WLD1400	3/4"	NPT						
WLD1400	1"	NPT						
WLD1400	1-1/2"	NPT						
WLD1400	2"	NPT						
			225 psig	225 psig at 450°F				



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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	145 psig	145 psig at 450°F	R-0988D
			FTE-50-17	2"	NPT	145 psig	145 psig at 450°F	
			FTE-50-18	2-1/2"	NPT	125 psig	125 psig at 450°F	
			FTE-125-18	2-1/2"	NPT	125 psig	125 psig at 450°F	
			FTE-200-16	1-1/2"	NPT	150 psig	150 psig at 450°F	
			FTE-200-17	2"	NPT	145 psig	145 psig at 450°F	
			FTE-200-18	2-1/2"	NPT	125 psig	125 psig at 450°F	
			WLDE-20-17	2"	NPT	145 psig	145 psig at 450°F	
			WLDE-50-17	2"	NPT	145 psig	145 psig at 450°F	
			WLDE-50-18	2-1/2"	NPT	125 psig	125 psig at 450°F	
			WLDE-125-18	2-1/2"	NPT	125 psig	125 psig at 450°F	
			WLDE-200-16	1-1/2"	NPT	150 psig	150 psig at 450°F	
			WLDE-200-17	2"	NPT	145 psig	145 psig at 450°F	
WLDE-200-18	2-1/2"	NPT	125 psig	125 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 (Note 3,5)	370 psig at 100°F	R-0988E
							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	
					CL. 150 Flanged (Note 4,5)	285 psig (Note 4,5)	285 psig at 100°F	
							260 psig at 200°F	
							230 psig at 300°F	
							200 psig at 400°F	
							170 psig at 500°F	
							140 psig at 600°F	
							125 psig at 650°F	
							110 psig at 700°F	
							95 psig at 750°F	



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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.