

REGISTRATION OF A PRESSURE FITTING DESIGN

23-Aug-21

TSSA
345 Carlingview Drive
Toronto, Ontario
M9W 6N9

Attention: Cecylia Garbacz

File Number: 12170 [0 F]

Re: Manufacturer: Watson McDaniel Company
Item: Steam Distribution Manifold & Valve Assembly
Catalog or Drawing: Per Scope of CRN Registration & Design Report R-1358 Rev. 0

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

OH21333.23 Expiry Date: March 15, 2031

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.
Codes and Standards Compliance

Remarks:

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.


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)

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 B16.34, ASME B31.1, ASME B31.3 which specifies the dimensions,
(title of recognized North American Standard)
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 _____ 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: 2015 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 H MSD600 STEAM DISTRIBUTION MANIFOLD AND VALVE ASS'Y

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 5th day of January, 2021

Robert Hickey
(print name)


Jay Goldberg
(Signature)

Commonwealth of Pennsylvania - Notary Seal
Jay Goldberg, Notary Public
Montgomery County
My commission expires June 28, 2024
Commission number 1200266

Jay Goldberg
(Signature of Commissioner of Oaths)

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 _____



**Technical
Safety Authority
of Saskatchewan**

Registration No. OH21333.23

File No. 12170

Registered

Date: August 23, 2021

Expiry Date: March 15, 2031

Codes & Standards Compliance Office

(Date Registered – MM DD YYYY) _____ (Expiry Date – MM DD YYYY) _____
(For the Administrator / Chief Inspector)

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Rev. 10/2012
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SCOPE OF CRN REGISTRATION

Product Description	Design Code	Material Specification	Series	Branch Connections	Steam Inlet/ Condensate Outlet	MAWP at 100°F	MAWP at MAWT (psig at °F)	MDMT	Report Number
MSD600 Steam Distribution Manifold and Valve Assembly Main Drawing 2605400 Rev. A	ASME B16.34, ASME B31.3, ASME B31.1	Manifold Valve Body ASTM A105N, Manifold Valve Bonnet ASTM A351-CF8M, Flanges and Forged Fittings ASTM A105, Wrought Fittings ASTM A234-WPB, Pipe: ASTM A106-B (Note 5)	MSD600	1/2", 3/4" NPT or Socket Weld	1-1/2" Sch. 80 CL600 ASME B16.5 Flanged or 1-1/2" Sch. 80 Butt Weld or 3/4" NPT or 3/4" Socket Weld (Note 6)	1480 psig	1480 psig at 100°F 1360 psig at 200°F 1310 psig at 300°F 1265 psig at 400°F 1205 psig at 500°F 1135 psig at 600°F 1100 psig at 650°F 1060 psig at 700°F 1015 psig at 750°F 825 psig at 800°F	-20°F	R-1358 Rev. 0
					CL300 Flanged (Note 6)	740 psig	740 psig at 100°F 680 psig at 200°F 655 psig at 300°F 635 psig at 400°F 605 psig at 500°F 570 psig at 600°F 550 psig at 650°F 530 psig at 700°F 505 psig at 750°F 410 psig at 800°F		
					CL150 Flanged (Note 6)	285 psig	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 80 psig at 800°F		

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Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

Note 2: Per CSA Table 1 Note (2)(B) the total volume of any configured manifold assembly shall not exceed 1.5 cubic feet in volume.

Note 3: 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.



SCOPE OF CRN REGISTRATION

Note 4: Per ASME B16.34 para. 2.3.2. the pressure rating for service at any temperature below -20F shall be no greater than the ASME B16.34 ratings for -20F. Products that are to operate at low temperatures shall conform to the rules of the applicable codes under which they are used.

Note 5: Other ASME B16.34 materials may be supplied for the MSD600 Manifold Valve Body under this CRN. When this is the case the pressure-temperature ratings are to be in accordance with the applicable ASME B16.34 Table 2 ratings.

Note 6: When ASME B16.5 CL. 150, CL. 300 and CL. 600 flanges are used the pressure-temperature ratings are to be limited to the applicable ASME B16.34 Table 2 ratings for each pressure class.

Note 7: The drain may be supplied with a 3/4" Condensate Drain pipe nipple with schedule 80 minimum thickness per ASME B36.10. Any valves installed on the drain are not part of this CRN.

Note 8: When used under the ASME B31.1 Code at temperatures greater than 750°F MT or PT or RT per ASME B31.1 Table 136.4.1-1 is required. Please inform Watson McDaniel if this requirement applies to your installation prior to placing an order.

	Technical Safety Authority of Saskatchewan
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	<input type="button" value="Registered"/>
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