

Montréal, 6 août 2021.

MADAME CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ONTARIO
CANADA M9W6N9

Fabricant : WATSON MCDANIEL
428 JONES BLVD
POTTSTOWN PENNSYLVANIA
USA 19464

Numéro de dossier : 949085

Numéro(s) de dessin(s) : MSD600 Steam Distribution Manifold per Scope of
Registration attached to the Statutory Declaration

Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0H21333.26**.

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date d'enregistrement. Les documents de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la *Déclaration de conformité du constructeur (Manufacturer's Data Report)* pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

545, boul. Crémazie Est, 7ième étage

Montréal (Québec) H2M 2V2

Téléphone : 514 873-6459

Sans frais : 1 866 262-2084

www.rbq.gouv.qc.ca

Montréal, le 6 août 2021.

MRS. CECYLIA GARBACZ
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Manufacturer : WATSON MCDANIEL
428 JONES BLVD
POTTSTOWN PENNSYLVANIA
USA 19464

OUR REFERENCE : 949085

Design number : MSD600 Steam Distribution Manifold per Scope of
Registration attached to the Statutory Declaration

Subject: Design registration confirmation

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0H21333.26**.

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each equipment manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

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Statutory Declaration Registration of Fittings

(a) Design Qualification

I¹ ROBERT HICKEY
(Name of applicant)

GENERAL MANAGER
(Position eg, president, plant manager, chief eng.)

of WATSON MCDANIEL
(name of company)

Located at 428 JONES BLVD., POTTSTOWN, PENNSYLVANIA, 19464
(plant address)



do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required: ASME B16.34, ASME B31.3, ASME B31.1

Or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency HSB

The fittings² covered by this declaration, for which I seek registration, are CATEGORY H MSD600 STEAM DISTRIBUTION MANIFOLD AND VALVE ASSEMBLY

In support of the application, the following information, calculations and/or test data are attached:

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

Declared before me at Pottstown

In the of State of Pennsylvania

The 5th day of January AD 2021

Jay Goldberg
A (commissioner for oaths)

Commonwealth of Pennsylvania - Notary Seal
Jay Goldberg, Notary Public
Montgomery County
My commission expires June 28, 2024
Commission number 1299266
Member, Pennsylvania Association of Notaries

[Signature]
Signature of Declarer³

For Official Use Only

The application is accepted for registration in Category _____ in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN _____

For the Chief Inspector _____

Date _____



¹ Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
² All fittings are required to be registered in the name of the Manufacturer.
³ This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.



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		

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.

