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October 27, 2017

Pressure Vessel Engineering
120 Randall Dr. Suite B
Waterloo, ON
N2V 1C6

Attn: Catherine Diplock

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: MARSHALL EXCELSIOR CO.

The design(s) for the following Valves/Fittings has been received by us and has been examined and accepted for registration in the Province of Manitoba as follows.

DRAWING / CATALOGUE	CRN	FILE
SCOPE: 10733S-1 Rev.0 Valve Assembly No.: ME84-, MEJ400 & MEJ402S.	0C19405.54	38145

An invoice covering survey and registration fees is enclosed.

NOTE: CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction: TSSA. This registration expires May 18, 2027.

This registration is valid until the indicated expiry date 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.

The registration of this design does not relieve the manufacturer, the owner or his agent of the responsibility for the design or construction of a fitting in accordance with the applicable Acts, Codes and Standards. Inspection and Technical Services assumes no responsibility by registering designs, examining plans and/or inspecting equipment or facility.

Regards,

Ryan Orlesky, C.E.T.
Design Surveyor
Office of the Fire Commissioner
Inspection and Technical Services Manitoba
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MANITOBA

DEPARTMENT OF LABOUR
AND IMMIGRATION
500 – 401 York Avenue
Winnipeg, Manitoba R3C 0P8



STATUTORY DECLARATION REGISTRATION OF FITTINGS

(a) Design Qualification

I, Franco Domingo
(See Note 2)

Vice President
(Position e.g.: president, plant manager, chief eng.)

of Marshall Excelsior Company
(Name of company)

located at 1506 George Brown Drive, Marshall, Michigan, 49068 USA
(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.

or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with ASME B31.3 2014 Edition _____ code or 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 9001:2008, and has been verified by the following authority or authorized agency TRC Inc.

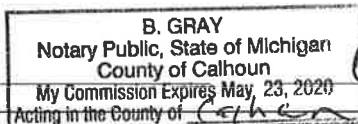
The fittings covered by this declaration, for which I seek registration, are Valves

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

See scope of registration: 10733s-1 R0

Declared before me at Calhoun County in the province/state of Michigan the 16
day of February AD 2017

A (commissioner for oaths)



Signature of Declarer

(For Official Use Only)

The application is accepted for registration in Category C 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.

EXP: MAY 18, 2027

Registered Number/CRN OC19405.54 For the Chief Inspector

Date: OCT 27, 2017

Notes:

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

10733s-1 R0 Scope of Registration, Cat. C - Valves

Design Data

Design Code: ASME B31.3 2014 Edition

Design Pressure: 400 psi

Design Temperature for Steel and Ductile Iron: 180 °F

Design Temperature for Brass, Aluminum, and 12L14: 100 °F

M.D.M.T: -44 °F @ 400 psi (for other materials)

M.D.M.T: -20 °F @ 400 psi (for ASTM #A536 all grades)

Corrosion allowance: 0, for non-corrosive service

RT: None

PWHT: None

Impact test: Exempted per 323.2.2

Supporting Documents

Calculation report: 10733c-1 R0

Burst Test Report: # 17010026.



Drawings

Valves:

Assembly No.	Description	Body Material	Burst Test Pressure
ME840-24-XXX	3" Bypass Valve	A536 654512	4,505 psi
ME840X-XX	Bypass Valve Without Flanges	A536 604018	
ME840X-X-XX	3/4", 1" Bypass Valve	A536 604018	4,503 psi
ME84X-XX-XXX	1-1/4", 1-1/2", 2" Bypass Valves	A536 604018	4,503 psi
MEJ400	Liquid Level Valve	C36000 Brass (ASTM B16 H02 Half-Hard Over 2" Bar)	Calculated
MEJ402S	Liquid Vent Valve	A320 Cl.1 B8F	Calculated