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August 23, 2016

CATHERINE DIPLOCK
PRESSURE VESSEL ENGINEERING LTD.
120 RANDALL DR SUITE B
WATERLOO ON N2V 1C6
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 1883092
Your Reference No.: PVE-10185
Registered to: MARSHALL EXCELSIOR COMPANY

Dear CATHERINE DIPLOCK,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0C18709.5
Main Design No.: Scope of registration - 10185s-0, globe valves
Expiry Date: 23-Aug-2026

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

CRN Note: See attached "Part of CRN" for the scope.

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,

Charley Dong, M.Sc. P.Eng.
Mechanical Engineer

Tel.: 416-734-3436
Fax: 416-231-6183
Email: cdong@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, FRANCO DOMINEO, VICE PRESIDENT
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Marshall Excelsior Company
(Name of Manufacturer)

Located at 1506 George Brown Drive, Marshall, MI, 49068
(Plant Address) (Telephone No.) (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

(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 ASME B31.3 2014 Ed. 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 which has been verified by the following authority, TRC

The items covered by this declaration, for which I seek registration, are category C type fittings. In support of this application, the following information and/or test data are attached as follows:

See Scope of Registration 10185s-0, Calculations, burst test reports, QC certificate
(drawings, calculations, test reports, etc.)

Declared before me at Calhoun County in the STATE of MICHIGAN

the 27 day of July AD 20 16.

Commissioner for Oaths:

Jennifer Modert
(Printed name)

Jennifer Modert
(Signature)

JENNIFER MODERT
 Notary Public, State of Michigan
 County of Calhoun
 My Commission Expires Jan. 22, 2020
 Acting in the County of Calhoun

[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 C

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety Program

CRN: OC18709.5 NOTE: SEE ATTACHED "PART OF CRN" FOR THE SCOPE.

REGISTERED

Registered by: Charley Dong

C.R.N.: OC18709.5

Dated: Aug. 23/16

Signed: Charley Dong

NOTE: This registration expires on Aug. 23, 2026

Date: Aug. 23/16

Burst testing was completed based on worst case body geometry. Meaning, largest port sizes with a combination of maximum ports were tested to encompass other similar models within a particular family that have identical bodies but smaller and fewer ports. The models/drawings included are as follows:

1. ME825-4F (4" Full Port Globe Valve) was tested and the following model is encompassed:
 - ME825-3F (3" Full Port Globe Valve)
2. ME825-24 (3" Globe Valve) was tested.
3. ME815-24 (3" Angle Valve) was tested.
4. ME824P-16-4 (2" Globe Valve, ½" ports with pilot) was tested and the following models are encompassed:

- ME825-16	- ME824-16	- ME824P-16
- ME825P-16-4	- ME825P-16	- ME825IBC-16
- ME824IBC-16	- ME828P-16	- ME828IBC-16
- ME828-16		
5. ME822P-16-4 (2" Flanged Globe Valve) was tested and the following models are encompassed:
 - ME822IBC-16
 - ME822-16
6. ME813-10 (1-1/4" Flanged Angle Valve) was tested.
7. ME813-16 (2" Flanged Angle Valve) was tested and the following models are encompassed:
 - ME813IBC-16
 - ME813P-16
8. ME800 (Hose End Valve Assembly Series) – ¾" was tested and this covers ½".
9. ME810-8 (LPG and NH3 Filler Valve Assembly) – 1" was tested and this covers ¾" and ½".
10. ME820-8 (LPG and NH3 Shutoff Valve Assembly) – 1" was tested and this covers ¾" and ½".
11. ME821-6 (Economy Quick Acting Valve) – ¾" was tested and this covers ½".
12. ME815-12 (1-1/2" Angle Valve) was tested and the following models are encompassed:
 - ME815-10
 - ME827-10
 - ME826-10
13. ME815-16 (2" Angle Valve With Pilot) was tested and the following models are encompassed:
 - ME815IBC-16
 - ME815P-16
14. ME825-12 (1-1/2" High Flow Glove Valve) was tested and the following model is encompassed:
 - ME825-10
15. ME823-10 (1-1/4" Flanged Globe Valve) – was tested and the following model is encompassed:
 - ME819-10
16. ME818P-16-4 (IBC 2" Flanged X 2" NPT Globe Valve) was tested and the following models are encompassed:
 - ME818IBC-16
 - ME818-16

