



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

November 14, 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.: 1960542
Your Reference No.: PVE-10718
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.: 0H18922.5
Main Design No.: ADAPTER ASSEMBLIES –
SEE SCOPE OF REGISTRATION 10718s-1 R0 (5 PAGES)
Expiry Date: November 14, 2026

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

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,


Ruiming You, P.Eng.
Mechanical Engineer, BPV
Tel.: 416-734-3428
Fax: 416-231-6183
Email: ryou@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 be fitting, in the space below



STATUTORY DECLARATION

Registration of Fittings

I, FRANCO DOMINGO 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, Michigan 49068, USA
(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 EDITION 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 9001:2008 which has been verified by the following authority, TRC Inc.

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

Scope of registration: 10718s-1 R0
(drawings, calculations, test reports, etc.)

Declared before me at Calhoun County in the STATE of MICHIGAN

the 4 day of OCTOBER AD 20 16.

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

Commissioner for Oaths:
Jennifer Modert
(Printed name)

Jennifer Modert
(Signature)

[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 H.

CRN: 0H18922.5

Registered by: RUIMING YOU

Dated: NOV. 14, 2016

NOTE: This registration expires on NOV. 14, 2026

REGISTERED

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

CRN: 0H18922.5

Signed: [Signature]

Date: NOV. 14, 2016

PV 09553 (06/04) NOTE: SEE SCOPE OF REGISTRATION (5 pages) 11/14/2016

10718s-1 R0 Scope of Registration

Design Data

Design Code: ASME B31.3 2014 Edition

Design Pressure: 250 psi

Design Temperature For Steel: 180 °F

Design Temperature For Brass: 100 °F

M.D.M.T: -44 °F @ 250 psi

M.D.M.T: -20 °F @ 250 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: 10718c-1 R0

Scope of registration (including drawing numbers) is specified in following pages:

THIS IS PART OF
CRN 0418922.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

BLEADER VALVE NOT INCLUDED.
11/14/16

10718s-1 R0 Scope of Registration (Page 2 of 5)

TYPE 1		
Assembly Drawing #	Material	
	Body	ACME Nut
ME100	C36000	C36000
ME101	C36000	C36000
ME110	C36000	C36000
ME110C	C36000	C37700
ME111	C36000	C36000
ME111C	C36000	C37700
ME111SC	12L14	ASTM#A536 Grade 805506
ME111S	12L14	12L14
ME112	C36000	C36000
ME112C	C36000	C37700
ME112S	12L14	12L14
ME112SC	12L14	ASTM#A536 Grade 805506
ME113SC	12L14	ASTM#A536 Grade 805506
ME120	C36000	C37700
ME120S	12L14	ASTM#A536 Grade 805506
ME120WR	C36000	C37700
ME121S	12L14	ASTM#A536 Grade 805506
ME130	C36000	C37700
ME130B	C36000	C37700
ME130BWR	C36000	C37700
ME130WR	12L14	C37700
ME130S	12L14	ASTM#A536 Grade 654512
ME130SA	12L14	ASTM#A536 Grade 654512
ME130SWR	12L14	ASTM#A536 Grade 654512
ME130EXTWR	12L14	C37700
ME130AWR	12L14	C37700
ME130A	12L14	C37700
ME140	C36000	C36000
ME141	C36000	C36000
ME141S	12L14	12L14
ME150	C36000	C36000
ME150C	C36000	C37700
ME150S	12L14	12L14
ME151	C36000	C36000
ME151S	12L14	12L14
ME160	12L14	C377000
ME160S	12L14	ASTM#A536 Grade 805506
ME229	C36000	C36000
ME229S	12L14	12L14
ME229F	C36000	C37700
ME229FS	12L14	ASTM#A536 Grade 805506
ME431FX	C36000	C37700
ME431FSX	12L14	ASTM#A536 Grade 805506
ME431R	C36000	C37700
ME441FX	C36000	C37700
ME441FSX	12L14	ASTM#A536 Grade 654512
ME441R	C36000	C37700
ME441RS	12L14	ASTM#A536 Grade 654512

THIS IS PART OF
CRN 0H189225
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TYPE 2	
Assembly Drawing #	Material
ME192	C36000
ME193	C36000
ME209	C36000
ME209S	12L14
ME210	C36000
ME211	C36000
ME212	C36000
ME213	C36000
ME213S	12L14
ME214	C36000
ME214S	12L14
ME215	C36000
ME215S	12L14
ME216	C36000
ME216S	12L14
ME217	C36000
ME217S	12L14
ME217J	C36000
ME217SJ	12L14
ME233	C36000
ME233S	12L14
ME233J	C36000
ME233SJ	12L14
ME250	C36000
ME251	C36000
ME252-16	C36000
ME252S-16	12L14
ME262	C36000
ME262S	12L14
ME270	C36000
ME273	C36000
ME273S	12L14
ME275	C36000
ME275S	12L14
ME277	C36000
ME277S	12L14
ME498-4/2	C36000
ME498-6/3	C36000
ME502-12/8	C36000
ME502-16/10	C36000
ME502S-16/10	12L14
ME502-16/12	C36000
ME503-16	C36000
ME503J-16	C36000
ME503JB-16	C36000
ME503JS-16	12L14
ME503SJ-16	12L14
ME503SJS-16	12L14
ME503-20	C36000
ME508-24	C36000
ME508S-24	ASTM #A536 Grade 604018
ME520S-8	12L14
ME521S-4	12L14

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TYPE 3	
Assembly Drawing #	Material
ME635-4	12L14
ME635G-4	12L14
ME635-6	12L14
ME635G-6	12L14
ME635-8	12L14
ME635G-8	12L14
ME635-10	12L14
ME635G-10	12L14
ME646-4	12L14
ME646-6	12L14
ME646-8	12L14
ME646-10	12L14

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TYPE 4		
Assembly Drawing #	Material	
	Body	ACME Screw
ME442	CA 360 BRASS	C37700
ME611	C37700	C36000
ME611S	ASTM#A536 Grade 805506	12L14
ME612X	C37700	C36000
ME612SX	ASTM#A536 Grade 654512	12L14
ME614	C37700	C36000
ME614S	ASTM#A536 Grade 654512	12L14

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