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www.tssa.org

April 16, 2021

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

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8004749
Your Reference No.: PVE-15419
Registered to: BAUM AMERICA CORP.

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 : 0H23188.5
Main Design No.: 15419scp-1 Revision 0
Expiry Date: Apr 16, 2031

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

See scope of registration

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, 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,

Alan Wu P. Eng.
Mechanical Engineer, BPV
Tel. : 416-734-3443
Fax : 416-231-6183
Email : awu@tssa.org



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manufacturer's logo or trademark, as it will
 on the fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, GARY E. MORRISON MANAGING PARTNER
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of BAUM Lined Piping America. & Baum Lined Piping GmbH.
(Name of Manufacturer)

Located at 3 PPSI Circle, Charleston, WV, 25312 USA & Additional location per
(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 2018 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 9001:2015 which has been verified by the following authority, Smithers Quality Assessments.

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:

Cat H - Fitting assemblies - See scope for drawing and associated document list (15419scp-1 R0)
(drawings, calculations, test reports, etc.)

Declared before me at Charleston in the State of West Virginia
 the 29th day of October AD 2020.

Commissioner for Oaths:

Nia Casey
(Printed name)

[Signature]
(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 _____.

CRN: _____
 Registered by: _____
 Dated: _____

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0H23188.5

Signed: [Signature]

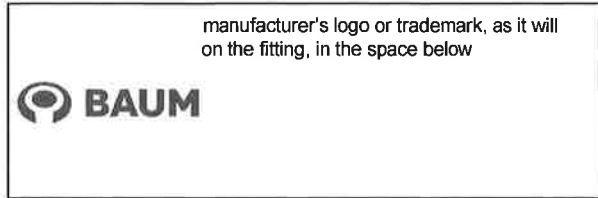
Date: April 16, 2021.

NOTE: This registration expires on: Apr 16, 2031

UR L 710/2021



Technical Standards and Safety Authority
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STATUTORY DECLARATION Registration of Fittings

I, Markus Baum managing director
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Baum Lined Piping GmbH
(Name of Manufacturer)

Located at Gewerbestr. 25-29, 75217 Birkenfeld, Germany
(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 2018 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 9001:2015 which has been verified by the following authority, Smithers Quality Assessments.

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:

Cat H - Fitting assemblies - See scope for drawing and associated document list (15419scp-1 R0)
(drawings, calculations, test reports, etc.)

Declared before me at Pforzheim in the _____ State of Baden-Württemberg

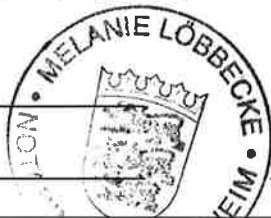
the 16th day of March AD 2021

Commissioner for Oaths:

Melanie Löbbecke, notary public

(Printed name)

[Signature]
(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 _____

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: _____

THIS IS PART OF CRN
0H23188.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

Scope of Registration – PVE-15419

Baum America Corp. – Fittings Registration – Cat. H

15419scp-1 Revision 0



Design Conditions:

Design Code: ASME 31.3 2018 Edition

Design Pressure: Per B16.5 100°F to 500°F

150# 285 PSI @ 100°F to 185 PSI @ 450°F

300# 485 PSI @ 100°F to 405 PSI @ 450°F

Design Temperature: 100-450°F

Hydrotest: 150# - 427 PSI @ Ambient

300# - 727 PSI @ Ambient

MDMT: -20°F @ MAWP

NDE: None

Impact Testing: None, 323.2.2

Corrosion Allowance: 0.0 mm

PWHT: None

Service: Liquid Chemical and Gas

Internal Volume: <1.5 ft³

Drawings:

1. Tees – 112435 Rev.1 [150#, 300#]
2. Crosses – 112692 Rev.1 [150#, 300#]
3. Pipes – 112640 Rev.1 [150#, 300#]
4. Stub Ends – 112600 Rev.1 [150#, 300#]
5. Stub Ends – 112601 Rev.1 [150#, 300#]
6. Elbow 45° - 113023 Rev.1 [150#, 300#]
7. Elbow 90° - 113026 Rev.1 [150#, 300#]
8. Instrument Tees – 112769 Rev.1 [150#, 300#]
9. Concentric Reducers – 113039 Rev.1 [150#, 300#]
10. Eccentric Reducers – 113041 Rev.1 [150#, 300#]
11. 45° Laterals – 105999 Rev.1 [150#]

Calculations:

15419c-1-TSSA R0 – Pipe and Branch calculations

15419c-1ABSA R0 – Pipe and Branch & Burst Test Calculations (only for ABSA)

Materials:

CRN Material List - 12560 Rev.4

Manufacturing Locations:

Baum America Corp.
3 PPSI Circle
Charleston, WV 25312
USA
ISO9001:2015

Baum Lined Piping GmbH
Gewerbestr. 25-29
75217 Birkenfeld
Germany
ISO9001:2015

CRN Components:

0H1001.0123456789YTN (PVE-12570)

0A1003.0 (both to be combined into 0H1001)