

Montréal, le 15 octobre 2025.

CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ONTARIO
CANADA M9W 6N9

Manufacturer : PENNSYLVANIA MACHINE WORKS INC.
201 BETHEL AVENUE
ASTON PENNSYLVANIA
U.S.A. 19014

OUR REFERENCE : 941318

Design number : See CRN Category A Fitting Registration Scope
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): **0A10416.56.**

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 boiler or pressure vessel 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,

Direction des équipements sous pression

Montréal

255, boul. Crémazie Est, 2ième étage
Montréal (Québec) H2M 1L5
Téléphone : 514 873-2546
Sans frais : 1 866 262-2084
enregistrementdesplans@rbq.gouv.qc.ca
www.rbq.gouv.qc.ca

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Numéro de dossier : 941318

Numéro(s) de dessin(s) : See CRN Category A Fitting Registration Scope
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 : **0A10416.56**.

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.

Salutations distinguées,

Direction des équipements sous pression

Montréal

255, boul. Crémazie Est, 2ième étage

Montréal (Québec) H2M 1L5

Téléphone : 514 873-2546

Sans frais : 1 866 262-2084

enregistrementdesplans@rbq.gouv.qc.ca

www.rbq.gouv.qc.ca



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

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

PENN

STATUTORY DECLARATION Registration of Fittings

I, Michael Barron, Corporate Quality Manager

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Pennsylvania Machine Works, LLC

(Name of Manufacturer)

Located at 201 Bethel Ave Aston, PA ; 315 North Wayside Dr. Houston, TX 610-497-3300

(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
ASME B31.1, B31.3, B16.11, B16.9, B16.14, MSS SP-79, SP-83, SP-95, SP-97, ASTM A733, A999, B829, B251, B861, B241

(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
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, I.RQA Limited

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

(drawings, calculations, test reports, etc.)

Declared before me at DELAWARE COUNTY in the COMMONWEALTH of PENNSYLVANIA

the 8th day of SEPTEMBER AD 2025

Commissioner for Oaths:

JEANETTE J. SCOTT

(Printed name)

Jeanette J. Scott

(Signature)

Commonwealth of Pennsylvania - Notary Seal
Jeanette J. Scott, Notary Public
Delaware County
My commission expires March 11, 2027
Commission number 1347477

Member, Pennsylvania Association of Notaries

[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.

CRN:

0A10416.58

Registered by:

Régie
du bâtiment

Québec



Dated:

2025/10/15

NOTE: This registration expires on:

Revue par la RBQ

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

Product Description	Design Standard	Size Range	Pressure Rating	Material	Catalog	Page	Design Proof Test
Flush Bushing	ASME B16.11	1/4" - 4" NPS	CL-2000, CL-3000, CL-6000 in 1/4" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	15	N/A per ASME B16.11
Hexagon Head Bushing	ASME B16.11	1/4" - 4" NPS	CL-2000, CL-3000, CL-6000 in 1/4" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	16	N/A per ASME B16.11
Hexagon Head Plug	ASME B16.11	1/8" - 4" NPS	CL-2000, CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	17	N/A per ASME B16.11
Round Head Plug	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	25	N/A per ASME B16.11
Socket Weld 45° Elbow	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	26	N/A per ASME B16.11
Socket Weld 90° Elbow	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	27	N/A per ASME B16.11
Socket Weld Boss	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	28	N/A per ASME B16.11
Socket Weld Cap	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	29	N/A per ASME B16.11
Socket Weld Couplet	ASME B16.11	1/4" - 4" NPS	CL-3000, CL-6000 in 1/4" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	30	N/A per ASME B16.11
Socket Weld Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	31	N/A per ASME B16.11
Socket Weld Cross	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 1 of 2	32	N/A per ASME B16.11
Socket Weld Eccentric Reducer / Reducing Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	2	N/A per ASME B16.11
Socket Weld Half Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	3	N/A per ASME B16.11
Socket Weld Reducer / Reducing Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	11	N/A per ASME B16.11
Socket Weld Tee	ASME B16.11	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 2", CL-9000 in 1/2" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	13	N/A per ASME B16.11
Socket Weld x Threaded Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	15	N/A per ASME B16.11
Socket Weld x Threaded Reducer / Reducing Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	15	N/A per ASME B16.11
Square Head Plug	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	16	N/A per ASME B16.11
Threaded 45° Elbow	ASME B16.11	1/8" - 4" NPS	CL-2000, CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 3-1/2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	17	N/A per ASME B16.11
Threaded 90° Elbow	ASME B16.11	1/8" - 4" NPS	CL-2000, CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 3-1/2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	18	N/A per ASME B16.11
Threaded Boss	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	19	N/A per ASME B16.11
Threaded Cap	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	20	N/A per ASME B16.11
Threaded Couplet	ASME B16.11	1/4" - 4" NPS	CL-3000, CL-6000 in 1/4" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	21	N/A per ASME B16.11
Threaded Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	22	N/A per ASME B16.11
Threaded Cross	ASME B16.11	1/8" - 4" NPS	CL-2000, CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 3-1/2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	23	N/A per ASME B16.11
Threaded Eccentric Reducer / Reducing Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	25	N/A per ASME B16.11
Threaded Half Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	26	N/A per ASME B16.11
Threaded Reducer / Reducing Coupling	ASME B16.11	1/8" - 4" NPS	CL-3000, CL-6000 in 1/8" - 4"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	30	N/A per ASME B16.11
Threaded Street Elbow	ASME B16.11	1/8" - 2" NPS	CL-3000, CL-6000 in 1/8" - 2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	31	N/A per ASME B16.11
Threaded Tee	ASME B16.11	1/8" - 4" NPS	CL-2000, CL-3000 in 1/8" - 4", CL-6000 in 1/8" - 3-1/2"	Per ASME B16.11 Standard Materials	Penn Machine Catalogue Part 2 of 2	32	N/A per ASME B16.11
Countersunk Head Plug	ASME B16.14	1/8" - 4" NPS	Per ASME B16.14	Per ASME B16.14 Materials	Penn Machine Catalogue Part 1 of 2	10	N/A per ASME B16.14
Butt Weld Eccentric Reducer	ASME B16.9	1" - 8" NPS	1" S5 - S160; 1-1/4" S5 - S160; 1-1/2" S5 - S160; 2" S5 - XXH; 2-1/2" S5 - XXH; 3" S5 - XXH; 3-1/2" S5 - XXH; 4" S10 - XXH; 5" S40 - XXH; 6" S40 - XXH; 8" S20 - S160, XXH	Per ASME B16.9 Material	Penn Machine Catalogue Part 1 of 2	2	Burst Test: 2" x 1-1/2" NPS S40 Butt Weld Reducer A105, 4" x 3" S40 Butt Weld Reducer A105
Butt Weld Concentric Reducer	ASME B16.9	1" - 8" NPS	1" S5 - S160; 1-1/4" S5 - S160; 1-1/2" S5 - S160; 2" S5 - XXH; 2-1/2" S5 - XXH; 3" S5 - XXH; 3-1/2" S5 - XXH; 4" S10 - XXH; 5" S40 - XXH; 6" S40 - XXH; 8" S20 - S160, XXH	Per ASME B16.9 Material	Penn Machine Catalogue Part 1 of 2	4	Burst Test: 2" x 1-1/2" NPS S40 Butt Weld Reducer A105, 4" x 3" S40 Butt Weld Reducer A105
Butt Weld Tee	ASME B16.9	1/4" - 5" NPS	1/4" S10 - XXH; 1/2" S5 - XXH; 3/4" S5 - XXH; 1" S10 - XXH; 1-1/4" S10 - XXH; 1-1/2" S10 - XXH; 2" S5 - XXH; 2-1/2" S5 - XXH; 3" S10 - XXH; 3-1/2" S10 - XXH; 4" S10 - XXH; 5" S40 - XXH	Per ASME B16.9 Material	Penn Machine Catalogue Part 1 of 2	5	Burst Test: 1/2" NPS STD Butt Weld Tee, 1.5" NPS S80 Butt Weld Tee A105, 4" STD Butt Weld Tee A105
Socket Weld Reducing Insert	MSS SP-79	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000 in 1-8" - 3"	Per MSS SP-79 Material	Penn Machine Catalogue Part 2 of 2	4-5	N/A per MSS SP-79
Socket Weld Union	MSS SP-83	1/8" - 3" NPS	CL-3000 in 1/8" - 3", CL-6000 in 1/8" - 2-1/2"	Per MSS SP-83 Material	Penn Machine Catalogue Part 2 of 2	14	N/A per MSS SP-83
Threaded Union	MSS SP-83	1/8" - 3" NPS	CL-3000, CL-6000 in 1/8" - 3"	Per MSS SP-83 Material	Penn Machine Catalogue Part 2 of 2	33	N/A per MSS SP-83
Concentric Swage Nipple	MSS SP-95	1/4" - 6" NPS	1/4" S10 - S80; 3/8" S10 - S80; 1/2" S5 - XXH; 3/4" S10 - XXH; 1" S5 - XXH; 1-1/4" S10 - XXH; 1-1/2" S10 - XXH; 2" S10 - XXH; 2-1/2" S10 - XXH; 3" S10 - XXH; 3-1/2" S40 - XXH; 4" S40 - XXH; 5" S40 - XXH; 6" S80 - XXH	Per MSS SP-95 Material	Penn Machine Catalogue Part 1 of 2	9	Burst Test: Swage Nipples MSS SP-95
Eccentric Swage Nipple	MSS SP-95	1/4" - 6" NPS	1/4" S10 - S80; 3/8" S10 - S80; 1/2" S5 - XXH; 3/4" S10 - XXH; 1" S5 - XXH; 1-1/4" S10 - XXH; 1-1/2" S10 - XXH; 2" S10 - XXH; 2-1/2" S10 - XXH; 3" S10 - XXH; 3-1/2" S40 - XXH; 4" S40 - XXH; 5" S40 - XXH; 6" S80 - XXH	Per MSS SP-95 Material	Penn Machine Catalogue Part 1 of 2	11	Burst Test: Swage Nipples MSS SP-95
Butt Weld 90° Branch Outlet	ASME B31.1, ASME B31.3, & MSS SP-97	1/4" - 16" NPS	1/4" S10 - S80; 3/8" S10 - S80; 1/2" S5 - XXH; 3/4" S10 - XXH; 1" S10 - XXH; 1-1/4" S10 - XXH; 1-1/2" S10 - XXH; 2" S10 - XXH; 2-1/2" S10 - XXH; 3" S10 - XXH; 3-1/2" S10 - XXH; 4" S10 - XXH; 5" S5 - XXH; 6" S10 - XXH; 8" S10 - S160; 10" S10 - S160, 12" S20 - S160; 14" S20 - S160, 16" S20 - S160	Per MSS SP-97	Penn Machine Catalogue Part 1 of 2	3	Proof Test Branch Outlets MSS SP-97, Proof Test 8 x 8 STD Butt welded Outlet MSS SP-97
Butt Weld 45° Branch Outlet (Lateral)	ASME B31.1, ASME B31.3, & MSS SP-97	1/4" - 16" NPS	1/4" S10 - S80; 3/8" S10 - S80; 1/2" S5 - XXH; 3/4" S10 - XXH; 1" S10 - XXH; 1-1/4" S10 - XXH; 1-1/2" S10 - XXH; 2" S10 - XXH; 2-1/2" S10 - XXH; 3" S10 - XXH; 3-1/2" S10 - XXH; 4" S10 - XXH; 5" S5 - XXH; 6" S10 - XXH; 8" S10 - S160; 10" S10 - S160, 12" S20 - S160; 14" S20 - S160, 16" S20 - S160	Per MSS SP-97	Penn Machine Catalogue Part 1 of 2	20	Proof Test Branch Outlets MSS SP-97, Proof Test 8 x 8 STD Butt welded Outlet MSS SP-97

Product Description	Design Standard	Size Range	Pressure Rating	Material	Catalog	Page	Design Proof Test
Socket Weld 90° Branch Outlet	ASME B31.1, ASME B31.3, & MSS SP-97	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000, CL-9000 in 1/8" - 2"	Per MSS SP-97	Penn Machine Catalogue Part 2 of 2	9	Proof Test Branch Outlets MSS SP-97
Socket Weld 45° Branch Outlet (Lateral)	ASME B31.1, ASME B31.3, & MSS SP-97	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000, CL-9000 in 1/8" - 2"	Per MSS SP-97	Penn Machine Catalogue Part 1 of 2	20	Proof Test Branch Outlets MSS SP-97
Threaded 90° Branch Outlet	ASME B31.1, ASME B31.3, & MSS SP-97	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000, CL-9000 in 1/8" - 2"	Per MSS SP-97	Penn Machine Catalogue Part 2 of 2	29	Proof Test Branch Outlets MSS SP-97
Threaded 45° Branch Outlet (Lateral)	ASME B31.1, ASME B31.3, & MSS SP-97	1/8" - 4" NPS	CL-3000 in 1/8" - 4", CL-6000, CL-9000 in 1/8" - 2"	Per MSS SP-97	Penn Machine Catalogue Part 1 of 2	20	Proof Test Branch Outlets MSS SP-97
Nipple Outlet	ASME B31.1, ASME B31.3, & MSS SP-97	1/4" - 16" NPS	1/4" S10 - S80 ; 3/8" S10 - S80 ; 1/2" S5 - XXH ; 3/4" S10 - XXH ; 1" S10 - XXH ; 1-1/4" S10 - XXH ; 1-1/2" S10 - XXH ; 2" S10 - XXH ; 2-1/2" S10 - XXH ; 3" S10 - XXH ; 3-1/2" S10 - XXH ; 4" S10 - XXH ; 5" S5 - XXH ; 6" S10 - XXH ; 8" S10 - S160 ; 10" S10 - S160, 12" S20 - S160; 14" S20 - S160 , 16" S20 - S160	Per MSS SP-97	Penn Machine Catalogue Part 1 of 2	22	Proof Test Branch Outlets MSS SP-97 , Proof Test 8 x 8 STD Buttweld Outlet MSS SP-97
Pipe Nipple	ASME B36.10M, ASME B36.19M	1/4" - 8" NPS	Per ASME B36.10M, ASME B36.19M	Per ASTM A733	Penn Machine Catalogue Part 1 of 2	23	N/A per ASME B36.10M, ASME B36.19M

