



To:	TSSA	From:	Janet Townsend
Company:	Conbraco Industries Inc.	Phone:	416-747-4291
Pages:	10	Location:	Toronto
Our File:	ANR-4909	Date:	April 19, 2018

Your File: 2258928

**Subject: Request for Design Registration**

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Conbraco Industries Inc. These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces. The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0A20041.56.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

A handwritten signature in blue ink that reads 'Janet Townsend'.

**Janet Townsend**  
Program Manager  
CSA Group

178 Rexdale Blvd.  
Toronto, ON, M9W 1R3  
Canada  
[www.csagroup.org](http://www.csagroup.org)

REGISTERED



CRN: CSA-0A20041.56

### Statutory Declaration Registration of Fittings

Registration Process administered by  
CSA Group per CSA B51

**(a) Design Qualification**

I<sup>1</sup> CHUCK TYSON

(Name of applicant)

SENIOR PROJECT ENGINEER

(Position eg, president, plant manager, chief eng.)

of CONBRACO INDUSTRIES, INC.

(name of company)

Located at 1418 S. PEARL STREET, PAGELAND, SC, 29728

(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, material, identification & service for which are required:

Or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with \_\_\_\_\_ code and 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 TUV

The fittings<sup>2</sup> covered by this declaration, for which I seek registration, are CATEGORY A

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

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS, WORLDWIDE LOCATIONS APPENDIX

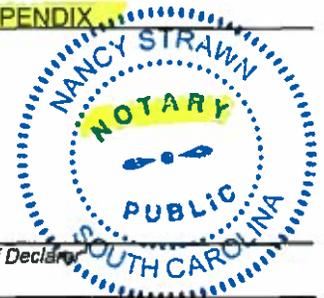
Declared before me at Pageland

In the of State of South Carolina

The 28<sup>th</sup> day of November AD 2017

Nancy Strawn  
A (commissioner for oaths)

Chuck Tyson  
Signature of Declarant



**For Official Use Only**

The application is accepted for registration in Category A 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. FEB. 05. 2028

Registered Number CRN CSA-0A20041.56

For the Chief Inspector

Date

A. BANWATT

APRIL 09 2018



<sup>1</sup> Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.

<sup>2</sup> All fittings are required to be registered in the name of the Manufacturer.

<sup>3</sup> This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.





# Technical Safety Authority of Saskatchewan

REGISTERED

CSA - OA 20041.56



2202 2nd Ave.  
Regina, SK S4R 1K3  
PH: (306) 798-7112 Toll Free: (866) 530-8599  
FAX: (306) 787-9273 Toll Free: (866) 760-9255  
Email: boilerpermits@tsask.ca  
Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

CSA Group per CSA B51

TSK-1008

## I. Declaration Information

I, CHUCK TYSON  
SENIOR PROJECT ENGINEER  
(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)  
of: CONBRACO INDUSTRIES, INC.  
(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



located at: 1418 S. PEARL STREET PAGELAND, SC 29728, U.S.A.  
(Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B31.1, ASME B31.3 which specifies the dimensions, Materials of construction, pressure / temperature ratings and identification marking of the fittings, or  
(title of recognized North American Standard)
- 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, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

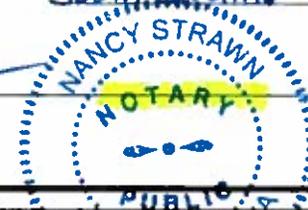
I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001:2008 TUV as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY A

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

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS, WORLDWIDE LOCATIONS APPENDIX

## II. Declaration

DECLARED before me at Conbraco Ind., Inc in the state of South Carolina  
this 28<sup>th</sup> day of November, 2017  
Nancy Strawn (print name) [Signature] (Signature)  
Nancy Strawn (Signature of Commissioner of Oaths)



## III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category A

CSA - OA 20041.56  
(Registration Number)

APRIL 09 2018  
(Date Registered - MM DD YYYY)  
(For the Administrator / Chief Inspector)

FEB 05 2028  
(Expiry Date - MM DD YYYY)

A. BANWATT

\*Note: See the attachment for the scope of the registration





345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
Tel. 416 734 3300  
Fax. 416 231 1525  
Toll Free 1 877 682 8772

[www.tssa.org](http://www.tssa.org)

February 06, 2018

SCOTT ISLIP  
ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6  
CA

Service Request Type: BPV-Fitting Registration  
Service Request No.: 2214364  
Your Reference No.: R-0812  
Registered to: CONBRACO INDUSTRIES

Dear SCOTT ISLIP,

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

CRN: **0A20041.5**

Main Design No.: APOLLO POWERPRESS - SCOPE OF CRN REGISTRATION (04-FEB-18)

Expiry Date: 05-Feb-2028

Note:

- 1) See Scope of CRN Registration and Notes
- 2) Size Range ½" thru 2"
- 3) Design Condition: 232 Psig @ 302F (MDMT: -20F)
- 4) Design code: ASME B31.3 and B31.1 – 2016
- 5) Unlisted materials (DIN EN 10305-2 Gr E235 Number 1.0308 and BS EN 10277-3 11SMnPb37 Number 1.0737) require owners acceptance per B31.1 para 123.1.2(d)

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

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](mailto: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](mailto:awu@tssa.org)



CONBRACO INDUSTRIES INC.  
 701 MATTHEWS-MINT HILL ROAD  
 MATTHEWS, NC  
 USA, 28105



04-Feb-18

Page 1 of 2

**APOLLO POWERPRESS - SCOPE OF CRN REGISTRATION**

Part No. (Note 5)	Part Description	End Connections	Material Specification	Design Code	Size Range	CRN MAWP at MAWT (Note 1,2,3)	MDMT	Design Report #
400/400G	Coupling with Stop	Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308	ASME B31.3, 2016, ASME B31.1, 2016 (Note 6)	1/2" thru 2"	232 psig at 302F	- 20F	R-0812
401/401G	Coupling without Stop	Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
407/407G	90 Degree Elbow	Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
407-2/407-2G	90 Degree Elbow	Press x Male	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
406/406G	45 Degree Elbow	Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
406-2/406-2G	45 Degree Elbow	Press x Male	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
411/411G	Tee	Press x Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
411R/411RG	Tee - Reducing	Press x Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
4712/4712G	Tee w/ Female Thread	Press x FNPT x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
418/418G	Outlet Branch	Press x Press	Steel Bar BS EN 10277-3 11SMnPb37 Number 1.0737					
403/403G	Fitting Reducer	Male x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
404/404G	Female Thread Adapter	Press x FNPT	Steel Bar BS EN 10277-3 11SMnPb37 Number 1.0737					
4733/4733G	Male Thread Adapter	Press x MNPT	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
417/417G	Union	Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
4771/4771G	Cap	Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
4771/4771G	Flange Adapter CL150	CL150 Flanged x Press	Steel Bar BS EN 10277-3 11SMnPb37 Number 1.0737					

**THIS IS PART OF CRN 0A20041.5**  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

**ATTACHMENT TO**  
 C.R.N. 0A-0A20041.5B  
 Signed: *[Signature]*  
 178 Riccarton Boulevard, Toronto, ON Canada M9W 1R3

CONBRACO INDUSTRIES INC.  
701 MATTHEWS-MINT HILL ROAD  
MATTHEWS, NC  
USA, 28105



04-Feb-18

Page 2 of 2

APOLLO POWERPRESS - SCOPE OF CRN REGISTRATION CONTINUED

**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

**Note 2:** The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP or MAWT may be limited by other considerations. Please consult Conbraco / Apollo literature.

**Note 3:** Powerpress components supplied with EPDM O-Rings are suitable for 302F. Powerpress components supplied with HNBR O-Rings are suitable for a maximum temperature of 194F.

**Note 4:** MAWP in accordance with ASME B16.5 Table II-2-1.1.

**Note 5:** G in Part Number stands for Gas seals (HNBR Seals suitable for 194F).

**Note 6:** In accordance with ASME B31.1 para 123.1.2(D) when this product is used under the ASME B31.1 code the owner must accept the use of the following non listed materials:

- Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308.
- Steel Bar BS EN 10277-3 11SMnPb37 Number 1.0737.

In all cases the above unlisted materials shall only be used for nonboiler external piping.

**Note 7:** See attached list of manufacturing locations applicable to this CRN.





**WORLDWIDE LOCATIONS APPENDIX**

**CONBRACO INDUSTRIES, INC LOCATIONS  
& CERTIFYING AUTHORITIES**

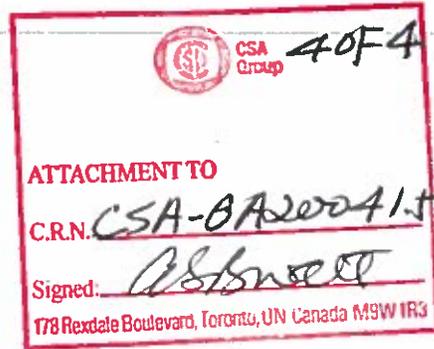
(rev. December 4, 2017)

**Corporate HQ; Sales and Customer Service**  
701 Matthews-Mint Hill Road  
Matthews, NC  
28105, USA  
ISO 9001 Certified by TUV Rheinland

**Design, Manufacturing, Calibration & Distribution and Customer Service**  
1418 S. Pearl Street  
Pageland, SC  
29728, USA  
ISO 9001 Certified by TUV Rheinland

**Foundry & Machining Operations**  
1509 South Van Lingle Mungo Blvd  
Pageland, SC  
29728, USA  
ISO 9001 Certified by TUV Rheinland

**Foundry & Manufacturing Operations**  
125 Highway 501 East  
Conway, SC  
29526, USA  
ISO 9001 Certified by TUV Rheinland



# CERTIFICATE

TUV Rheinland of North America, Inc.  
1300 Massachusetts Avenue, Suite 103, Boxborough, MA 01719



Hereby certifies that



**Conbraco Industries, Inc.**



**701 Matthews-Mint Hill Road  
Matthews, NC 28105**

has established and maintains a quality management system for the

**Design and Manufacture of Flow and Pressure Relief Valves for  
Residential, Industrial and Medical Applications Under the Apollo  
Trademark; The Provision of Contract Calibration Services**

An audit was performed and documented in Report No 2418.  
Proof has been furnished that the requirements according to

**ISO 9001:2008**

are fulfilled.

Further clarification regarding the scope of this certificate and the applicability of  
ISO 9001:2008 requirements may be obtained by contacting TRNA.

Certificate Registration No.

**74 300 2418**

Certificate Issue Date  
**December 01, 2015**

Certificate Expiration Date  
**September 14, 2018**

Revised 11/30/2015  
Certification Decision 11/30/2015



  
Certification of Management Systems

# APPENDIX

**TUV Rheinland of North America, Inc.**  
1300 Massachusetts Avenue, Suite 103, Boxborough, MA 01719



This appendix lists the sites certified under Certificate Number

**74 300 2418, valid until September 14, 2018**

For



## Conbraco Industries, Inc.



SITE ADDRESS	ACTIVITIES RELATING TO:
701 Matthews-Mint Hill Road Matthews, NC 28105	Corporate HQ; Sales and Customer Service
1418 S. Pearl Street Pageland, SC 29728	Design, Manufacturing, Calibration & Distribution and Customer Service
1509 South Van Lingle Mungo Blvd Pageland, SC 29728	Foundry & Machining Operations
125 Highway 501 East Conway, SC 29526	Foundry & Manufacturing Operations

**This appendix is only valid in conjunction with the referenced certificate.**

Revised 11/30/2015  
Certification Decision Date 11/30/2015



*J. J. McConathy*  
Certification of Management Systems

178 Rexdale Blvd.  
Toronto, Ontario  
Canada M9W 1R3  
Tel: (416) 747-4000  
[www.csagroup.org](http://www.csagroup.org)



March 2017

## **CRN – Canadian Registration Numbers - Saskatchewan**

The Province of Saskatchewan participates with Quebec and the Canadian Standards Association (CSA Group) for the registrations of “Fittings”.

Per an agreement with CSA Group in April 1998, Saskatchewan recognizes registrations done by CSA Group and accepts such fittings for use in Saskatchewan.

The letters “CSA” are applied as a prefix to the CRN to indicate which “Fittings” have been registered in this manner. You should inform your clients of this additional marking requirement and that “Fittings” registered by CSA Group are accepted for use in Saskatchewan Canada.