



To:	TSSA	From:	Janet Townsend
Company:	Conbraco Industries	Phone:	416-747-4291
Pages:	11	Location:	Toronto
Our File:	ANR-4192	Date:	October 18, 2016

Your File: 1911024

**Subject: Request for Design Registration**

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Conbraco Industries. 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-0C10908.56ADD10.

The cost for this service is \$ 760.00 plus HST.

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**

Account Manager

CSA Group

[janet.townsend@csagroup.org](mailto:janet.townsend@csagroup.org)

[www.csagroup.org](http://www.csagroup.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

**'Apollo' Valves**  
Manufactured by Conbraco Industries Inc.

## STATUTORY DECLARATION Registration of Fittings

I, DAVID EDMONDS, SENIOR PRODUCT ENGINEER

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

of CONBRACO INDUSTRIES, INC.

*(Name of Manufacturer)*

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

*(Plant Address)*

843-672-6161

*(Telephone No.)*

843-672-1648

*(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 B31.3

*(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:9001:2008 which has been verified by the following authority, TUV

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

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

*(drawings, calculations, test reports, etc.)*

Declared before me at Pageland, South Carolina in the County Chesterfield

the 26<sup>th</sup> day of January AD 2016.

Commissioner for Oaths:

Nancy Strawn  
*(Printed name)*

Nancy Strawn  
*(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 C

CRN: CSA - OC10908.56ADD10

Registered by: A. BANWATT

Dated: OCTOBER 05 2016

NOTE: This registration expires on MARCH 07 2026

CSA Group

**REGISTERED**

C.R.N.: CSA-OC10908.56ADD10

Signed: [Signature]

Date: 05 Oct 2016

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3



14th Floor, Centre Tower  
3300 Bloor Street West  
Toronto, Ontario  
Canada M8X 2X4  
Tel: 416.734.3300  
Fax: 416.231.1626  
Toll Free: 1.877.682.8772  
[www.tssa.org](http://www.tssa.org)

June 17, 2016

SCOTT ISLIP  
ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L0R 2H8  
CA

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 1877066  
**Your Reference No.:** CONBRACO  
**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 No.:** 0C10908.5ADD10  
**Main Design No.:** DESIGN REPORT R-0605-1, BRONZE BRASS BALL VALVES  
**Expiry Date:** 07-Mar-2026

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

See attachments to Statutory Declaration for scope, pressure ratings and manufacturing locations.

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,

Kaivan Kia P. Eng., PMP  
Mechanical Engineer, BPV  
Tel. : 416-734-3457  
Fax: 416-231-6183  
Email : [kkia@tssa.org](mailto:kkia@tssa.org)



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

THIS IS PART OF  
 CRN OC 109085ADD10  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

16-Jun-16

Page 1 of 3

FLOATING TYPE BALL VALVES - SCOPE OF CRN REGISTRATION

Valve Series	Valve Models	Material Description	Material Specification	Design Code	Size Range	End Connections	CRN MAWP at 100F (Note 1)	CRN MAWP at 406F (Note 1)	MDMT	Design Report #
70-100	70-100 70-140 70-190	Bronze and Brass	ASTM B584-C84400 ASTM B283-C37700 ASTM B62-C83600 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 3"	NPT, Solder	600 psig	425 psig	- 20F	R-0605-1
70-100-BC	70-100-BC									
70-200	70-200 70-240									
70-300	70-300 70-340									
70-400	70-400 70-440									
70-800	70-800									
70B-140	70B-140 70B-150 70B-190									
71-100	71-100 71-120 71-140 71-150 71-190									
71-500	71-500 71-540 71-590									
75-100	75-100									
77-100	77-100 77-140 77-150 77-190									
77-200	77-200 77-240 77-250									
7K-100	7K-100 7K-150 7K-190									
80-100	80-100									


 CSA Group 20F6

ATTACHMENT TO  
 C.R.N. CSA-OC10908.56ADD10  
 Signed: [Signature]  
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF  
CRN OC 10908.5 ADD10

Technical Standards & Safety Authority  
Boilers & Pressure Vessels

FLOATING TYPE BALL VALVES - SCOPE OF CRN REGISTRATION CONTINUED

Valve Series	Valve Models	Material Description	Material Specification	Design Code	Size Range	Connections	CRN MAWP at 100F (Note 1)	CRN MAWP at 406F (Note 1)	MDMT	Design Report #
70LF-100	70LF-100 70LF-140	Lead Free Bronze and Brass	ASTM B584-C89836 ASTM B927-C27451	ASME B31.3 MSS SP-110	1/4" thru 3"	NPT, Solder	600 psig	250 psig	- 20F	R-0605-2
70LF-200	70LF-200 70LF-240									
70LF-300	70LF-300 70LF-340									
70LF-400	70LF-400 70LF-440									
77C	77C-100 77C-140 77C-100-UL 77C-200 77C-240 77C-200-UL 77C-800	Bronze and Brass	ASTM B584-C84400 ASTM B283-C37700 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	600 psig	425 psig	- 20F	R-0605-3
77CLF	77CLF-100 77CLF-140 77CLF-200 77CLF-240	Lead Free Bronze and Brass	ASTM B584-C89836 ASTM B927-C27451 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	600 psig	250 psig	- 20F	R-0605-4
82	82-100 82-140 82-200 82-400	Bronze and Brass	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 4"	NPT, Solder	600 psig	425 psig	- 20F	R-0605-5
82-LF	82LF-100 82LF-140 82LF-200 82LF-240	Lead Free Bronze and Brass	ASTM B584-C89836 ASTM B927-C27451 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 4"	NPT, Solder	600 psig	250 psig	- 20F	R-0605-6
95	95A 95-100 95-200	Bronze and Brass	ASTM B584-C84400 ASTM B283-C37700 ASTM B62-C83800 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/2" thru 1"	NPT, Solder	600 psig	425 psig	- 20F	R-0605-7
95	95ALF	Lead Free Bronze and Brass	ASTM B584-C89836 ASTM B927-C27451 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/2" thru 1"	NPT, Solder	600 psig	250 psig	- 20F	R-0605-8
71-AR	71-AR	Bronze and Brass	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	3/4" thru 3"	NPT, Solder	600 psig	425 psig	- 20F	R-0605-9

 30F6

ATTACHMENT TO  
C.R.N. CSA-OC10908.56ADD10  
Signed: Ashtwatt  
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

FLOATING TYPE BALL VALVES - SCOPE OF CRN REGISTRATION CONTINUED

Valve Series	Valve Models	Material Description	Material Specification	Design Code	Size Range	End Connections	CRN MAWP at 100F (Note 1)	CRN MAWP at 406F (Note 1)	MDMT	Design Report #
77-AR	77-AR	Bronze and Brass	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	600 psig	425 psig	- 20F	R-0605-10
32-100	32-100	Bronze and Brass	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	400 psig	285 psig	- 20F	R-0605-11
32-200	32-200									
50GB	50GB GB50 GB50-A	Bronze and Brass	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/2" thru 2"	NPT, Solder	250 psig	250 psig	- 20F	R-0605-12
70-600	70-600 70-640	Bronze and Brass	ASTM B584-C84400 ASTM B283-C37700 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	400 psig	285 psig	- 20F	R-0605-13
70-900	70-900									
7B	7B-100 7B-300 7B-800	Bronze and Brass	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	400 psig	285 psig	- 20F	R-0605-14
79	79 79-700	Brass	ASTM B283-C37700 ASTM B16-C36000 ASTM B75-C12200	ASME B31.3 ASME B31.5 MSS SP-110	3/8" thru 3-1/8"	Tube	500 psig	N/A	ASME B31.5 Grp. 2	R-0605-15

Note 1: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP may be limited by the seat or seal material or other considerations. Please consult Conbraco / Apollo valve literature.

Note 2: See attached list of manufacturing locations applicable to this CRN.



4 OF 6

ATTACHMENT TO

C.R.N. CSA-OC10908.56ADD10

Signed: [Signature]

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF

CRN OC 10908.56ADD10

Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program

# CERTIFICATE

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



Hereby certifies that

THIS IS PART OF  
CRN 0C10908.5 ADD10  
Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program



**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



*[Signature]*  
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**

THIS IS PART OF  
 CRN 0 C109085AD10  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

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



*[Signature]*  
 Certification of Management Systems

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1300 Massachusetts Avenue, Suite 103, Boxborough, MA 01719



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For



## Conbraco Industries, Inc.



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



Certification of Management Systems



Saskatchewan  
Municipal  
Government

## Saskatchewan

Protection Services  
330 - 1851 Victoria Avenue  
Regina, Saskatchewan  
S4P 3V7

787-4509

April 23, 1998

### Re: Fittings Registration

The Province of Saskatchewan will be participating with Quebec, Manitoba and the Canadian Standards Association (CSA) in a pilot project for the registration of fittings. We will recognize registrations done by CSA and accept such fittings for use in Saskatchewan.

The letters CSA will be applied as a prefix to the CRN to indicate which fittings have been registered in this manner. I would appreciate if you could inform your clients of this additional marking requirement.

You may also inform your clients that fittings registered by CSA are accepted for use in Saskatchewan.

Yours truly,

N. Surtees, P. Eng.  
Executive Director