345 Carlingview Drive
Toronto, Ontario
CANADA M9W 6N9
Tel.: 416.734.3300
Fax.: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

May 10, 2018

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

Service Request Type.: BPV-National BC
Service Request No.: 2258926
Your Reference No.: R-0812
Registered to.: CONBRACO INDUSTRIES

Dear SCOTT ISLIP,

Please find enclosed the original response from BC, registered under the CRN No.: 0A20041.51.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email :tfrancis@tssa.org

TECHNICAL SAFETY BC

Suite 600 - 2889 E 12th Ave
Vancouver, BC V5M 4T5

Toll Free: 1-866-566-7233
www.technicalsafetybc.ca

TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: April 13, 2018
Account #: 35231
Journal #: 70433

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 2258926, for a Fitting is accepted for registration as follows:

Registered To: CONBRACO INDUSTRIES INC **CRN:** 0A20041.51

MDMT: -20 deg F **MAWT:** 302 deg F **MAWP:** 232 psig

Drawing #: Design Report R-0812 **Drawing Revision:** 0

Conditions Of Registration:

Registration of Apollo Powerpress per att'd scope of registration shts (2 pgs + certifying authorities sheet).

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

Per TSSA's reg'n note: Size Range 1/2" thru 2". Design Code: ASME B31.3 and B31.1 - 2016. Unlisted materials (DIN EN 10304-2 Gr E235 Number 1.0308 and BC EN 10277-3 11SMnPb37 Number 1.0737 require owners acceptance per B31.1 para 123.1.2(d).

As required by CSA B51 4.2.1, this reg'n expires on February 05, 2028. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid QC program verified by an acceptable third-party agency until that date. Should the certification of the QC program lapse before the expiry date, this registration shall become void.

TECHNICAL SAFETY BC

Suite 600 - 2889 E 12th Ave
Vancouver, BC V5M 4T5

Toll Free: 1-866-566-7233
www.technicalsafetybc.ca

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@technicalsafetybc.ca
Design Administration

cc:

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

"Apollo" POWERPRESS

04-Feb-18

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 Outlet Branch	Press x FNPT x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308 Steel Bar BS EN 10277-3 11SMnPb37 Number 1.0737					
418/418G	Fitting Reducer	Male x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308 Steel Bar BS EN 10277-3 11SMnPb37 Number 1.0737					
403/403G	Female Thread Adapter	Press x FNPT	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
404/404G	Male Thread Adapter	Press x MNPT	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
4733/4733G	Union	Press x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
417/417G	Cap	Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308					
4771/4771G	Flange Adapter CL150	CL150 Flanged x Press	Steel Tube DIN EN 10305-2 Grade E235 Number 1.0308 Steel Bar BS EN 10277-3 11SMnPb37 Number 1.0737			229 psig at 302F **(Note 4)**		

TECHNICAL SAFETY BC

CRN #: 0A20041.51
Date: April 12, 2018
BC J#: 70433

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

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

"Apollo" POWERPRESS

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.

TECHNICAL SAFETY BC

CRN #: 0A2004.51
Date: April 12, 2018
BC J#: 70433

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

TECHNICAL SAFETY BC

CRN #: 0A20041.51
Date: April 12, 2018
BC J#: 70433