



To:	TSSA	From:	Janet Townsend
Company:	Avco Valves & Control, Inc	Phone:	416-747-4291
Pages:	9	Location:	Toronto
Our File:	ANR-4412	Date:	February 8, 2017

Your File: 2016038

Subject: Request for Design Registration

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Avco Valves & Control, 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-0C19055.56.

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

Account Manager

CSA Group

janet.townsend@csagroup.org

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



STATUTORY DECLARATION Registration of Fittings

I, MARK WEINER, CEO
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of AVCO VALVES & CONTROL, INC.
(Name of Manufacturer)

Located at 3210 S. SUSAN ST., SANTA ANA, CA, 92704 714-427-0877 714-427-6392
(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 B16.34, 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:9001:2015 which has been verified by the following authority, ANAB

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

SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS

(drawings, calculations, test reports, etc.)

Declared before me at _____ in the _____ of _____
the _____ day of _____ AD 20_____.

Commissioner for Oaths:

(Printed name)

(Signature)

Mark Weiner

(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 - 0C19055.56

Registered by: R. BARNES

Dated: FEB. 07. 2017

NOTE: This registration expires on JAN. 05. 2027

REGISTERED



CRN: CSA - 0C19055.56

Registration Process administered by
CSA Group per CSA B51



CSA-OC19015.16

Technical Review performed per CSA B51
Performed by: ANRIC Enterprises Inc.

Signed: Rui Barnes

Date: February 7, 2017



Geoffia Garbacz, a Commissioner, etc.
City of Toronto, for the Technical
Standards & Safety Authority
Expires June 17, 2017

CALIFORNIA JURAT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)

COUNTY OF ORANGE)

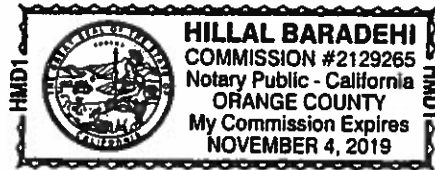
Subscribed and sworn to (or affirmed) before me on this 17th day of MAY, 2016
Date Month Year

by MARK WEINER

Name of Signers

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Signature: 
Signature of Notary Public



Seal
Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____

Number of Pages: _____

Signer(s) Other Than Named Above: _____

AVCO VALVES & CONTROL, INC.
 3210 S. SUSAN ST.
 SANTA ANA, CALIFORNIA
 USA, 92704



THIS IS PART OF
 CRN 0C19055-5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

05-Jan-17

PAGE 1 OF 3

SCOPE OF CRN REGISTRATION

Product Description	AVCO Series	Design Code	Size Range	Body Class	End Connection (Note 1,2,3)	Material Specification (Note 4)	MAWP (psig) (Note 5)	MDMT (F)
Three Piece Ball Valve	1100 1900	ASME B16.34	1/4" thru 1-1/4"	600	FNPT, Socket Weld, CL.150, CL.300, CL.600 Flanged, Buttweld	ASTM A216-WCB Carbon Steel	1480 psig at 100F	-20
						ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-20
						ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	1200 psig at 100F	-20
						ASTM A494-M35-1 Monel 400	1200 psig at 100F	-20
Three Piece Ball Valve	1100 1900	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld, CL.150, CL.300 Flanged, Buttweld	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
						ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CF3M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	600 psig at 100F	-20
						ASTM A494-M35-1 Monel 400	600 psig at 100F	-20
Bottom Entry and Side Entry Diverter Valve	1700 1800	ASME B16.34	1/4" thru 1-1/4"	600	FNPT, Socket Weld, CL.150, CL.300, CL.600 Flanged, Buttweld	ASTM A216-WCB Carbon Steel	1480 psig at 100F	-20
						ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-20
						ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	1200 psig at 100F	-20
						ASTM A494-M35-1 Monel 400	1200 psig at 100F	-20
Bottom Entry and Side Entry Diverter Valve	1700 1800	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld, CL.150, CL.300 Flanged, Buttweld	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
						ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CF3M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	600 psig at 100F	-20
						ASTM A494-M35-1 Monel 400	600 psig at 100F	-20
Flanged Ball Valve	9100 9900	ASME B16.34	1/2" thru 10"	150	CL.150 Flanged	ASTM A216-WCB Carbon Steel	285 psig at 100F	-20
						ASTM A351-CF8M Stainless Steel	275 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	230 psig at 100F	-20
						ASTM A494-M35-1 Monel 400	230 psig at 100F	-20
						ASTM A494-CW12MW Hastelloy C	230 psig at 100F	-20
Flanged Ball Valve	9100 9900	ASME B16.34	1/2" thru 10"	300	CL.300 Flanged	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
						ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	600 psig at 100F	-20
						ASTM A494-M35-1 Monel 400	600 psig at 100F	-20
						ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-20

CSA Group
 10F-3
 C.R.N. 0C19055-5-6
 Signed: [Signature]
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

AVCO VALVES & CONTROL, INC.
 3210 S. SUSAN ST.
 SANTA ANA, CALIFORNIA
 USA, 92704




THIS IS PART OF
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 Safety Program

15-Dec-16

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SCOPE OF CRN REGISTRATION CONTINUED

Product Description	AVCO Series	Design Code	Size Range	Body Class	End Connection (Note 1,2)	Material Specification	MAWP (psig)	MDMT (F)
ASME BPE Three Piece Ball Valve, Bottom Entry and Side Entry Diverter Valve.	2100 2700 2800 2900	ASME BPE, ASME B31.3.	1/2" thru 4"	N/A	ASME BPE Clamp Ferrule (Note 6)	ASTM A351-CF8M Stainless Steel ASTM A351-CF3M Stainless Steel ASTM A351-CN7M Alloy 20 ASTM A494-M35-1 Monel 400 ASTM A494-CW12MW Hastelloy C	Size 1/2" thru 2-1/2"	-20
							200 psig at 100F	
							165 psig at 250F	
							Size 3"	
200 psig at 100F								
150 psig at 250F								
200 psig at 100F								
125 psig at 250F								
ASME BPE Three Piece Ball Valve, Bottom Entry and Side Entry Diverter Valve.	2100 2700 2800 2900	ASME BPE, ASME B31.3.	1/2" thru 4"	N/A	Tube End, Sizes 1/2" thru 3": 0.065" wall tube, Size 4": 0.085" wall tube (Note 7)	ASTM A351-CF8M Stainless Steel ASTM A351-CF3M Stainless Steel	Size 1/2" thru 1"	-20
							1500 psig at 100F	
							Size 1-1/2" and 2"	
							1000 psig at 100F	
							Size 2-1/2"	
							800 psig at 100F	
Size 3"								
700 psig at 100F								
Size 4"								
650 psig at 100F								
ASME BPE Three Piece Ball Valve, Bottom Entry and Side Entry Diverter Valve.	2100 2700 2800 2900	ASME BPE, ASME B31.3.	1/2" thru 4"	N/A	Tube End, Sizes 1/2" thru 3": 0.065" wall tube, Size 4": 0.085" wall tube (Note 7)	ASTM A494-CW12MW Hastelloy C	Size 1/2" thru 1"	-20
							1500 psig at 100F	
							Size 1-1/2" and 2"	
							1000 psig at 100F	
							Size 2-1/2"	
							850 psig at 100F	
Size 3"								
700 psig at 100F								
Size 4"								
700 psig at 100F								


 20F3
ATTACHMENT TO
 C.R.N. CSA-0C19055.56
 Signed: [Signature]
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

AVCO VALVES & CONTROL, INC.
 3210 S. SUSAN ST.
 SANTA ANA, CALIFORNIA
 USA, 92704



THIS IS PART OF
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15-Dec-16

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SCOPE OF CRN REGISTRATION CONTINUED

Product Description	AVCO Series	Design Code	Size Range	Body Class	End Connection (Note 1,2)	Material Specification	MAWP (psig)	MDMT (F)
ASME BPE Three Piece Ball Valve, Bottom Entry and Side Entry Diverter Valve.	2100	ASME BPE, ASME B31.3.	1/2" thru 4"	N/A	Tube End, Sizes 1/2" thru 3": 0.065" wall tube, Size 4": 0.085" wall tube (Note 7)	ASTM A351-CN7M Alloy 20 ASTM A494-M35-1 Monel 400	Size 1/2" thru 1" 1500 psig at 100F	-20
	2700						Size 1-1/2" 1000 psig at 100F	
	2800						Size 2" 850 psig at 100F	
	2900						Size 2-1/2" 700 psig at 100F	
							Size 3" 550 psig at 100F	
							Size 4" 550 psig at 100F	

Note 1: In all cases the pressure-temperature ratings of the valves may be limited by the seat and seal materials. Consult AVCO literature.

Note 2: In all cases the pressure-temperature ratings of a flanged valve are limited by the pressure-temperature ratings of the flange

Note 3: Consult factory for valve ratings with butt-weld end connections below ASME B16.10M schedule 10.

Note 4: For valve series 1100, 1700, 1800, 1900, 9100 and 9900 other ASME B16.34 materials may be supplied. When this is the case the pressure-temperature ratings of the valves are in accordance with the applicable ASME B16.34 Table 2 ratings.

Note 5: For valve series 1100, 1700, 1800, 1900, 9100 and 9900 the pressure-temperature ratings above 100F are in accordance with the applicable ASME B16.34 Table 2 ratings.

Note 6: The assembly clamp is not part of the CRN. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. Consult Clamp Manufacturer for clamp Pressure-Temperature ratings.

Note 7: Above 100F the pressure-temperature ratings of tube end valves are to be calculated in accordance with para. 304.1 of ASME B31.3.

3 OF 3

ATTACHMENT TO
 C.R.N. CSA-0019055-6
 Signed: [Signature]
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3



PERRY JOHNSON REGISTRARS, INC.

Certificate of Registration

Perry Johnson Registrars, Inc., has audited the Quality Management System of:

Alloy Valves & Control Inc

3210 South Susan Street, Santa Ana, CA 92704 United States

*(Hereinafter called the Organization) and hereby declares that
Organization is in conformance with:*

ISO 9001:2015

This Registration is in respect to the following scope:

Designs, Manufacturers and Distributes Valves, Flow Measurement and Control Products

*This Registration is granted subject to the system rules governing the Registration referred to above, and the
Organization hereby covenants with the Assessment body duty to observe and comply with the said rules.*



Terry Boboige

Terry Boboige, President

Perry Johnson Registrars, Inc. (PIR)
755 West Big Beaver Road, Suite 1340
Troy, Michigan 48084
(248) 358-3388

The validity of this certificate is dependent upon ongoing surveillance.

Effective Date:
May 12, 2016

Expiration Date:
May 11, 2019

Certificate No.:
C2016-01540



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