



505 - 6th Street, Suite 200
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE

Fax: (778) 396 - 2064

www.safetyauthority.ca

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

Date: February 2, 2017

Account #: 35231

Journal #: 67241

Our File #: 5611120

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 2015958, for a Fitting is accepted for registration as follows:

Registered To: AVCO VALVES & CONTROLS INC **CRN:** 0C19055.51

MDMT: -20 deg F

Drawing #: Avco Catalog, Reg'n Scope Shts

Drawing Revision: 0

Conditions Of Registration:

Registration of Avco Ball Valve Catalog as per scope of registration sheets (3 pages)

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:

As required by CSA B51 4.2.1, this registration expires on January 05, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

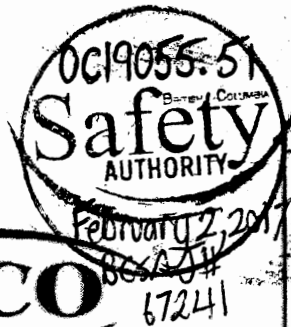
Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:

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

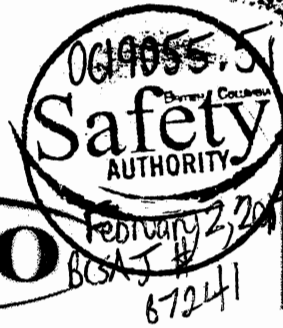
05-Jan-17

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, Butt weld	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
						ASTM A494-CW12MW Hastelloy C	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, Butt weld	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
						ASTM A494-CW12MW Hastelloy C	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, Butt weld	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
						ASTM A494-CW12MW Hastelloy C	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, Butt weld	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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A494-M35-1 Monel 400	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-M35-1 Monel 400	600 psig at 100F	-20
						ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-20

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



THIS IS PART OF
 CRN 0619055.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

15-Dec-16

PAGE 2 OF 3

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	
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	
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 2-1/2"	-20
							800 psig at 100F	
							Size 3"	
							700 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 4"	-20
							650 psig at 100F	
							Size 1/2" thru 1"	
							1500 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 1-1/2" and 2"	-20
							1000 psig at 100F	
							Size 2-1/2"	
							850 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 3"	-20
							700 psig at 100F	
							Size 4"	
							700 psig at 100F	

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

March 14, 2017

Attention: Tanya Francis
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

Email: tfrancis@tssa.org

The design submission, tracking number 2017-00590, originally received on February 01, 2017 was surveyed and accepted for registration as follows:

CRN : 0C19055.52

Accepted on: March 14, 2017

Reg Type: New Design

Expiry Date: January 05, 2027

Drawing No. : CATALOG- AVCO BALL VALVES As Noted

Fitting type: VALVE

Design registered in the name of : AVCO VALVES & CONTROL INC

The registration is conditional on your compliance with the following notes:

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are B16.34 and ASME B31.3.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

The registration is for the valves only and do not include clamp. The BEP ferrule is not to be used alone. The clamp used for the ferrule connection shall have its CRN rated equal or higher than the ferrule valve and is suitable for the ferrule connection.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

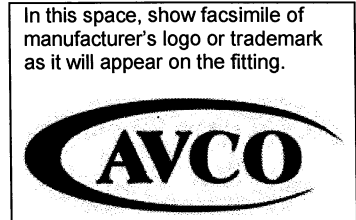
Enclosed are stamped prints for your reference.

Sincerely,



LIU, XING, P. Eng.

STATUTORY DECLARATION Registration of Fittings



I, MARK WEINER, CEO of AVCO VALVES & CONTROL, INC. located at 3210 S. SUSAN ST., SANTA ANA, CA, 92704

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of ASME B16.34, ASME B31.3 which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, 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

(title of code of construction or other applicable document) 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ISO:9001:2015 ANAB as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

CATEGORY C - VALVES

(brief description of fittings)

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

SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS

DECLARED before me at in the of

this day of (Month) (Year)

(print) (a Commissioner of Oaths or Notary Public)

(sign) (a Commissioner of Oaths or Notary Public)

Mark Weiner (signature of applicant)

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category

Registration Number: 0019055.52

(Signature of the Administrator/SCO)

Date Registered: 2017-03-14

Expiry Date: 2027-01-05

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 16th 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:

Hillal Baradehi
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



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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A494-CW12MW Hastelloy C	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
						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
						ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-20

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



15-Dec-16

PAGE 2 OF 3

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	
							Size 4"	
							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	

0019065.52

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PAGE 3 OF 3

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.

PROVINCE OF ALBERTA
 REGISTRATION OF FITTINGS
 REGISTRATION NO. 0019055-52
 DATE OF REGISTRATION Catalogue
 TYPE OF FITTING Valve
 DATE 2017-03-14 INITIALS [Signature]
 A. P. J. P. Eng.
 DESIGN SURVEY ENGINEER



Inspection and Technical Services Manitoba

508 - 401 York Avenue

Winnipeg Manitoba R3C 0P8

T (204) 945-3373

F (204) 948-2309

www.firecomm.gov.mb.ca/codes_steam_pressure.html

April 10, 2017

TSSA
345 Carlingview Drive
Toronto, ON
M9W 6N9

Attn: Tanya Francis

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: AVCO VALVES & CONTROL

The design(s) for the following Valves/Fittings has been received by us and has been examined and accepted for registration in the Province of Manitoba as follows.

DRAWING / CATALOGUE	CRN	FILE
AVCO BALL VALVES CATALOGUE SEE ATTACHED STAMPED "THIS IS PART OF CRN" FOR SCOPE OF REGISTRATION 3 PAGES	0C19055.54	37518

An invoice covering survey and registration fees is enclosed.

NOTE:** CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction: TSSA. This registration expires **January 5, 2027.

This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

The registration of this design does not relieve the manufacturer, the owner or his agent of the responsibility for the design or construction of a fitting in accordance with the applicable Acts, Codes and Standards. Inspection and Technical Services assumes no responsibility by registering designs, examining plans and/or inspecting equipment or facility.

Regards,

Ryan Orlesky, C.E.T.

Design Surveyor

Office of the Fire Commissioner

Inspection and Technical Services Manitoba

508 - 401 York Avenue

Winnipeg, Manitoba, R3C 0P8

Phone: 204-945-3373

Email: ryan.orlesky@gov.mb.ca



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: OC19055 54

Registered by: RYAN ORLESKY

Dated: April 10, 2017

NOTE: This registration expires on JAN 5, 2027



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

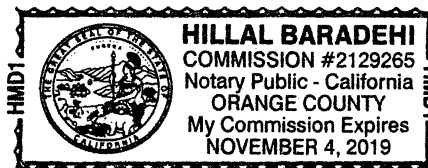
by MARK WEINER

Name of Signers

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

Signature: *Hillal Baradehi*

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



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
ASTM A494-CW12MW Hastelloy C	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
ASTM A494-CW12MW Hastelloy C	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
ASTM A494-CW12MW Hastelloy C	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
ASTM A494-CW12MW Hastelloy C	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

Inspection & Technical Services
 Manitoba
 Office of the Fire Commissioner
Manitoba
 THIS IS PART OF CRN
 OC19055.54

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

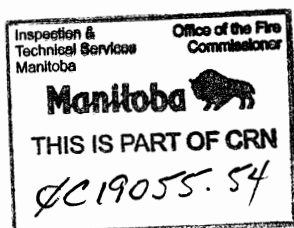


15-Dec-16

PAGE 2 OF 3

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	
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	
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 2-1/2"	-20
							800 psig at 100F	
							Size 3"	
							700 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 4"	-20
							650 psig at 100F	
							Size 1/2" thru 1"	
							1500 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 1-1/2" and 2"	-20
							1000 psig at 100F	
							Size 2-1/2"	
							850 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 3"	-20
							700 psig at 100F	
							Size 4"	
							700 psig at 100F	





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.

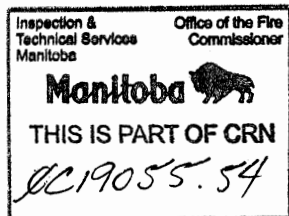
Note 3: Consult factory for valve ratings with butt weld end connections below ASME B16.10M schedule 10.

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.





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: OC 19055.5

Registered by: RUMING YOU

Dated: JAN. 5. 2017

NOTE: This registration expires on JAN. 5. 2027

Technical Standards & Safety Authority CRN: <u>OC 19055.5</u> Signed: <u>[Signature]</u> Date: <u>Jan. 5, 2017</u>	Boilers and Pressure Vessels Regulation CRN: <u>OC 19055.5</u> Signed: <u>[Signature]</u> Date: <u>Jan. 5, 2017</u>
---	--

NOTE: SEE (3) PAGES SCOPE OF REGISTRATION ATTACHED. 1/5/17

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



THIS IS PART OF
 CRN 0019055-5
 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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A494-CW12MW Hastelloy C	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
						ASTM A216-WCB Carbon Steel	740 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
						ASTM A216-WCB Carbon Steel	740 psig at 100F	-20

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

15-Dec-16

PAGE 2 OF 3

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" 200 psig at 100F 165 psig at 250F	-20
							Size 3" 200 psig at 100F 150 psig at 250F	
							Size 4" 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" 1500 psig at 100F	-20
							Size 1-1/2" and 2" 1000 psig at 100F	
							Size 2-1/2" 800 psig at 100F	
							Size 3" 700 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" 1500 psig at 100F	-20
							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							

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



THIS IS PART OF
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15-Dec-16

PAGE 3 OF 3

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	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
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							Size 2" 850 psig at 100F	
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							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.



TECHNICAL STANDARDS & SAFETY AUTHORITY
 14th Floor, Centre Tower
 3300 Bloor Street West
 Toronto, Ontario
 Canada M8X 2X4



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

CSA Group

REGISTERED

CRN: CSA-0C19055.56

**Registration Process administered by
 CSA Group per CSA B51**

Note: 1. This registration is based on a technical review performed by the province of initial registration in accordance with CSA B51 policy on reciprocal recognition of design review
 2. See attached scope of registration.

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
 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
 CRN 0C19055.5
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 Boilers & Pressure Vessels
 Safety Program

15-Dec-16

PAGE 2 OF 3

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	
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								
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								
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 3"	-20
							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
 CRN 0019055.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

15-Dec-16

PAGE 3 OF 3

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


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: AVCO VALVES & CONTROL, INC.	
MANUFACTURERS ADDRESS: 3210 S. SUSAN ST., SANTA ANA, CA, 92704	
PLANT LOCATIONS: SAME AS ABOVE	
<p>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY.</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>- ASME B16.34 - ASME B31.3</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> 	<p>TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>- SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS</p>	

DECLARATION:

I MARK WEINER, CEO (see note 3) employed by AVCO VALVES & CONTROL and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO:9001:2015 ANAB as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declaror: Mark Weiner

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

USE THIS SPACE FOR
OFFICIAL USE

This space for Regulatory Authority use
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0C19055.5
 FID#: 15416

Notes:
 1. All fittings shall be registered in the name of the Manufacturer.
 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

ACCEPTED
PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT
 C.R.N. 0C19055.59
 DATE: July 9 2017
Jeanette McEwen
INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH
 Sect. 1.0 - Fittings Rev. 1 06/2003

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES


NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: AVCO VALVES & CONTROL, INC.

MANUFACTURERS ADDRESS: 3210 S. SUSAN ST., SANTA ANA, CA, 92704

PLANT LOCATIONS: SAME AS ABOVE

CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers	- ASME B16.34
B Flanges; all flanges	- ASME B31.3
<input checked="" type="radio"/> Valves: all line valves	
D Expansion joints, flexible connections, and hose assemblies: all types	
E Strainers, filters, separators, and steam traps	
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters	
G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs	
H Pressure retaining components that do not fall into one of the above categories	
N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
	FORGED <input checked="" type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

- SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS

DECLARATION:

I MARK WEINER, CEO (see note 3) employed by AVCO VALVES & CONTROL and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO:9001:2015 ANAB as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: *Mark Weiner*

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

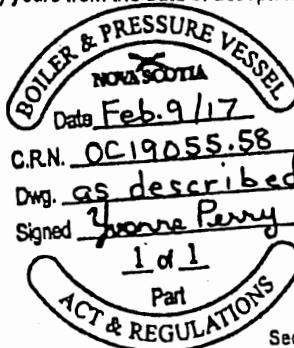
USE THIS SPACE FOR
OFFICIAL SEAL

This space for Regulatory Authority use
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0C19055.5

FID#: 15416

Notes:
 1. All fittings shall be registered in the name of the Manufacturer.
 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.



Date Feb. 9/17
 C.R.N. 0C19055.58
 Dwg. as described
 Signed Jeanne Perry
1 of 1
 Part

Sect. 1.0 - Fittings Rev. 1 06/2003


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: AVCO VALVES & CONTROL, INC.	
MANUFACTURERS ADDRESS: 3210 S. SUSAN ST., SANTA ANA, CA, 92704	
PLANT LOCATIONS: SAME AS ABOVE	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges (C) Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting CNSC or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>- ASME B16.34 - ASME B31.3</p>
<p align="center">SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 150px;">  </div>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER: _____</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>- SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS</p>	

DECLARATION:

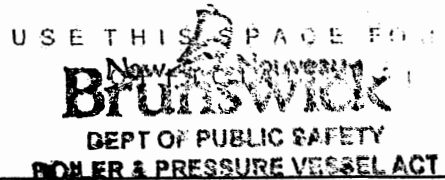
I MARK WEINER, CEO (see note 3) employed by AVCO VALVES & CONTROL and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO:9001:2015 ANAB as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: *Mark Weiner*

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____



This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of registration.	
CRN: <u>0C19055.5</u> FID#: <u>15416</u>	<p align="center">REGISTRATION ONLY</p> <p>CRN: <u>0C19055.57</u></p> <p>EXAMINER: <u><i>Don Crook</i></u> for CHIEF BOILER INSPECTOR</p> <p>DATE: <u>2/10/2017</u></p> <p><input type="checkbox"/> BLRs <input type="checkbox"/> FVs</p> <p><input type="checkbox"/> FITTINGS <input type="checkbox"/> SPECIAL FITTINGS Rev. 1 06/2003</p>
<p>Notes:</p> <ol style="list-style-type: none"> All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. 	

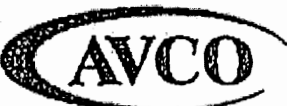
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: AVCO VALVES & CONTROL, INC.	
MANUFACTURERS ADDRESS: 3210 S. SUSAN ST., SANTA ANA, CA, 92704	
PLANT LOCATIONS: SAME AS ABOVE	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges ⓐ Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting CNSC or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>- ASME B16.34 - ASME B31.3</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;">  </div>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>- SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS</p>	

DECLARATION:

I MARK WEINER, CEO (see note 3) employed by AVCO VALVES & CONTROL and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO:9001:2015 ANAB as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: *Mark Weiner*

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

USE THIS SPACE FOR
OFFICIAL SEAL

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0C19055.5</u> FID#: <u>15416</u>	Newfoundland Labrador Service NL Registered <u>0C19055.50</u> Date <u>13/02/10</u> Engineering and Inspection Services Registered <u><i>[Signature]</i></u>
Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS FITTINGS ACT 06/2003


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

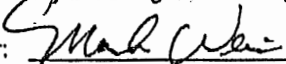
PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: AVCO VALVES & CONTROL, INC.	
MANUFACTURERS ADDRESS: 3210 S. SUSAN ST., SANTA ANA, CA, 92704	
PLANT LOCATIONS: SAME AS ABOVE	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges <input checked="" type="radio"/> Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting CNSC or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>- ASME B16.34 - ASME B31.3</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 150px;">  </div>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>- SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS</p>	

DECLARATION:

I MARK WEINER, CEO (see note 3) employed by AVCO VALVES & CONTROL and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO:9001:2015 ANAB as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.


Signature of Declarer: 

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

USE THIS SPACE FOR
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This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0C19055.5</u>	
FID#: <u>15416</u>	
<p>Notes:</p> <ol style="list-style-type: none"> All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. 	
Sect. 1.0 - Fittings Rev. 1 06/2003	


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

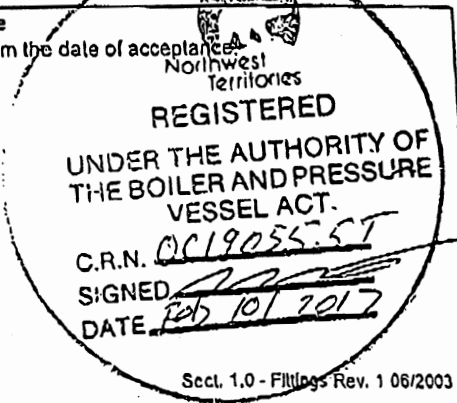
MANUFACTURERS NAME: AVCO VALVES & CONTROL, INC.	
MANUFACTURERS ADDRESS: 3210 S. SUSAN ST., SANTA ANA, CA, 92704	
PLANT LOCATIONS: SAME AS ABOVE	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges; all flanges C Valves; all line valves D Expansion joints, flexible connections, and hose assemblies; all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components; Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting CNSC or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>- ASME B16.34 - ASME B31.3</p>
<p align="center">SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="border: 1px solid black; border-radius: 50%; padding: 10px; width: 150px; margin: 0 auto;">  </div>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p align="center">LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>- SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS</p>	

DECLARATION:

I, MARK WEINER, CEO (see note 3) employed by AVCO VALVES & CONTROL and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO:9001:2015 ANAB as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: *Mark Weiner*
 Declared before me at _____
 This _____ day of _____ AD _____
 Commissioner of Oaths
 or Notary Public: (sign) _____

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<p align="center">This space for Regulatory Authority use</p> <p align="center">This registration must be revalidated after ten (10) years from the date of acceptance</p> <p>CRN: <u>0C19055.5</u></p> <p>FID#: <u>15416</u></p> <p>Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</p>	 <p align="center">Northwest Territories REGISTERED UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT. C.R.N. <u>0C19055.5T</u> SIGNED <u>[Signature]</u> DATE <u>Feb 10 2017</u></p> <p align="right">Sect. 1.0 - Fittings Rev. 1 06/2003</p>
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON


PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

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<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center"></p>	<p>TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>- SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWINGS, CALCULATIONS</p>	

DECLARATION:

I MARK WEINER, CEO (see note 3) employed by AVCO VALVES & CONTROL and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO:9001:2015 ANAB as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 
 Declared before me at _____
 This _____ day of _____ AD _____
 Commissioner of Oaths
 or Notary Public: (sign) _____

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<p align="center">This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.</p>	
<p>CRN: <u>0C19055.5</u> FID#: <u>15416</u></p>	<p align="center">NUNAVUT Boilers and Pressure Vessels Act REGISTERED <u>0C19055.SN</u> <u>Feb 10, 2017</u> Chief Inspector Sect. 10 - Fittings Rev. 1-06/2003</p>
<p>Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</p>	<p align="center">Territorial Registration Fee</p>