

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

Journal #: 6/241 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:

MDMT: -20 deg F

Drawing #: Avco Catalog, Reg'n Scope Shts

Drawing Revision: 0

0C19055.51

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:

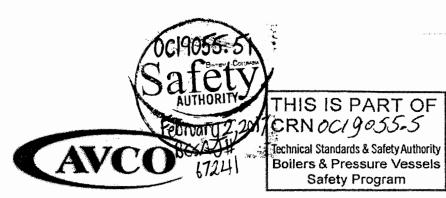
As required by CSA B51 4.2.1, this registration expires on January 05, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program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



05-Jan-17

PAGE 1 OF 3

SCOPE OF CRN REGISTRATION

Product	AVCO	Design	Size Range	Body	End Connection	Material	MAWP	MDMT
Description	Series	Code		Class	(Note 1,2,3)	Specification (Note 4)	(psig) (Note 5)	(F)
Three Piece Ball	1100	ASME B16.34	1/4" thru 1-1/4"	600		ASTM A216-WCB Carbon Steel	1480 psig at 100F	-20
Valve	1900	1			CL.150, CL.300,	ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-20 -20
		1	1	1	CL.600 Flanged,	ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-20
					Buttweld	ASTM A351-CN7M Alloy 20	1200 psig at 100F	-20
				İ		ASTM A494-M35-1 Monel 400	1200 psig at 100F	-20
						ASTM A494-CW12MW Hastelloy C	1200 psig at 100F	-20
Three Piece Ball	1100	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
Valve	1900			İ	CL.150, CL.300	ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
				ĺ	Flanged, Buttweld	ASTM A351-CF3M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	600 psig at 100F	-20
				İ		ASTM A494-M35-1 Monel 400	600 psig at 100F	-20
						ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-20
Bottom Entry and	1700	ASME B16.34	1/4" thru 1-1/4"	600	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	1480 psig at 100F	-20
Side Entry Diverter	1800	1			CL.150, CL.300,	ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-20
Valve				l	CL.600 Flanged,	ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-20
					Buttweld	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	1700	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
Side Entry Diverter	1800				CL.150, CL.300	ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
Valve					Flanged, Buttweld	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	ASME B16.34	1/2" thru 10"	150	CL.150 Flanged	ASTM A216-WCB Carbon Steel	285 psig at 100F	-20
Tranget ban Tarre	9900	7.0			02.1001.12.1302	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
					ŀ	ASTM A494-CW12MW Hastelloy C	230 psig at 100F	-20
Flanged Ball Valve	9100	ASME B16.34	1/2" thru 10"	300	CL.300 Flanged	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
goa ban rairo	9900					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

Safety
THIS IS PART OF
CRN OC19055.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

AVCO VALVES & CONTROL, INC. 3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704 15-Dec-16

PAGE 2 OF 3

SCOPE OF GRN REGISTRATION CONTINUED

Product	AVCO	Design	Size Range	Body	End Connection	Material	MAWP	MDMT
Description	Series	Code		Class	(Note 1,2)	Specification	(psig)	(F)
ASME BPE Three	2100	ASME BPE,	1/2" thru 4"	N/A	ASME BPE Clamp	ASTM A351-CF8M Stainless Steel	Size 1/2" thru 2-1/2"	-20
Piece Ball Valve,	2700	ASME B31.3.		1	Ferrule (Note 6)	ASTM A351-CF3M Stainless Steel	200 psig at 100F	ı
Bottom Entry and	2800					ASTM A351-CN7M Alloy 20	165 psig at 250F	
Side Entry Diverter	2900					ASTM A494-M35-1 Monel 400	Size 3"	
Valve.				1		ASTM A494-CW12MW Hastelloy C	200 psig at 100F	
			1	1			150 psig at 250F	
				1			Size 4"	
							200 psig at 100F	
							125 psig at 250F	
ASME BPE Three	2100	ASME BPE.	1/2" thru 4"	N/A	Tube End, Sizes 1/2"	ASTM A351-CF8M Stainless Steel	Size 1/2" thru 1"	-20
Piece Ball Valve.	2700	ASME B31.3.			thru 3": 0.065" wall	ASTM A351-CF3M Stainless Steel	1500 psig at 100F	
Bottom Entry and	2800	,		1	tube, Size 4": 0.085"		Size 1-1/2" and 2"	
Side Entry Diverter	2900				wall tube (Note 7)		1000 psig at 100F	
Valve.					,		Size 2-1/2"	1
V0.170.							800 psig at 100F	
				1			Size 3"	
							700 psig at 100F	
							Size 4"	
							650 psig at 100F	
ASME BPE Three	2100	ASME BPE,	1/2" thru 4"	N/A	Tube End. Sizes 1/2"	ASTM A494-CW12MW Hastelloy C	Size 1/2" thru 1"	-20
	2700	ASME B31.3.	1/2 (1/10 4	''''	thru 3": 0.065" wall		1500 psig at 100F	
Piece Ball Valve,	2800	ASIVIE DS 1.5.	,		tube. Size 4": 0.085"		Size 1-1/2" and 2"	
Bottom Entry and	2900			1	wall tube (Note 7)		1000 psig at 100F	
Side Entry Diverter	2900			1	Wan taba (italia i)		Size 2-1/2"	
Valve.				1	I		850 psig at 100F	
							Size 3"	
							700 psig at 100F	
							Size 4"	
							700 psig at 100F	

Safe Safe AVCO SUSA

THIS IS PART OF CRN C. 19055.5

Boilers & Pressure Vessels

Safety Program

15-Dec-16

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3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704

AVCO VALVES & CONTROL, INC.

SCOPE OF CRN REGISTRATION CONTINUED

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

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

March 14, 2017

Attention: Tanya Francis

Email:tfrancis@tssa.org

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

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.

mylm

Sincerely,

LIU, XING, P. Eng.





In this space, show facsimile of manufacturer's logo or trademark

STATUTORY DECLARATION Registration of Fittings

I,	MARK WEINER	, CEO		as it will appear on the litting.
•	(name of applicant)	" , ,	t be in a position of authority)	
of	AVCO VALVES & CONTROL, INC			
loc	nar) ated at 3210 S. SUSAN ST., SANT;	ne of manufacturer)		
100		(plant address)		
	solemnly declare that the fittings list neck one)	ed hereunder, which	are subject to the Safety C	odes Act
\boxtimes	comply with the requirements of	ASME B16.34, ASM (title of recognized Nort		pecifies the dimensions,
	materials of construction, press	ure/temperature rati	ngs and identification marki	ng of the fittings, or
	are not covered by the provision	is of a recognized N	orth American standard and	l are therefore manufactured
	to comply with			as supported by the
	attached			
	(title of code	of construction or other a	ipplicable document)	
	data which identifies the dimens	ions, materials of co	onstruction, pressure/tempe	rature ratings and the basis
	for such ratings, and the marking	g of the fittings for ic	lentification.	
l f	urther declare that the manufacture of	of these fittings is con	ntrolled by a quality control p	program which has been
ve	rified by the following authority, ISO:	9001:2015 ANAB	as being suitable	e for the manufacture of these
fitt	ings to the stated standard. The fitti	ngs covered by this	declaration, for which I seek	registration, are
	CATEGORY C - VALVES			
In	support of this application, the follow	(brief description of fitting		re attached:
	SCOPE OF CRN REGISTRATION,			
_	OOOI E OF CRITICEOUTHATION,	JEGIGIA IVELI GIVIG	, DIAWINOS, CALCOLATI	0140
DI	ECLARED before me at(city)	in the	of	province or state)
th	is day of	Month)	(Year)	province or state)
(p	rint)	,	(Todi)	
	(a Commissioner of Oaths or Notar	y Public)	Mark Wai	
(s	ign) (a Commissioner of Oaths or Notar	y Public)		of applicant)
F	or ABSA Office Use Only:			
Ν	OTES:			
	o the best of my knowledge and belic andard B51, Clause 4.2, and is acce			Safety Codes Act and CSA
R	egistration Number: 0 (1 9 (55.52	- Cienature of	the Administrator/SCO)
D	ate Registered: 7017- 03-	14	` •	7-01-05

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
by MARK Weiner
DY
Name of Signers
proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.
,
HILLAL BARADEHI
Signature: Signature of Notary Public COMMISSION #2129265 Notary Public - California ORANGE COUNTY
My Commission Expires NOVEMBER 4, 2019
ford.
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:

3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



05-Jan-17

PAGE 1 OF 3

SCOPE OF CRN REGISTRATION

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

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PAGE 2 OF 3

SCOPE OF CRN REGISTRATION CONTINUED

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



3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



15-Dec-16

PAGE 3 OF 3

SCOPE OF CRN REGISTRATION CONTINUED

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

ON INCE OF ALBERTA

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.

00190555

Value

2012-03-14

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	0C19055.54	37518
CRN" FOR SCOPE OF REGISTRATION 3 PAGES		

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



ings	
Chief Engineer)	
oner Engineer)	
	,
714-427-0877 (Telephone No.)	714-427-6392 (Fax No.)
the Technical Standar	ds and Safety Act, Boilers
	ng the fittings and service;
ich identifies the dimensi	nanufactured to comply with ons, material of construction, n and service.
em meeting the requiren	nents of ISO:9001:2015
VES	type fittings. In support of
:.)	1
	of
Color (Signature of	Declarari)
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	Office of the Fire
	the Technical Standard (a) ratings, identification marking and are therefore marking the fitting for identification meeting the requirem to LVES JLATIONS 1.)

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	Month	<u>d 105</u>
by MARK WEINER	Dote	Month	Yeor
<u>.</u> •			
Nome of Signe	rs ,		_
proved to me on the basis of satisfactory evidence to be th	e person(s) who appea	red before me.	•
	. /		
Signature: Signature of Notary Public	HMDI	HILLAL BARAI COMMISSION #21: Notary Public - Cali ORANGE COUN My Commission Ex NOVEMBER 4, 20	29265 Fornia TY Dipires D
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OPTION			
Though this section is optional, completing this information attachment of this form to an unintended document.	n con deter alteration	of the document	t or fraudulent
Description of Attached Document Title or Type of Document:			
Document Date:			
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Signer(s) Other Than Named Above:			
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05-Jan-17

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

USA, 92704

(AVCO)

PAGE 1 OF 3

SCOPE OF CRN REGISTRATION

Product	AVCO	Design	Size Range	Body	End Connection	Material	MAWP	MDMT
Description	Series	Code	-	Class	(Note 1,2,3)	Specification (Note 4)	(psig) (Note 5)	(F)
Three Piece Ball	1100	ASME B16.34	1/4" thru 1-1/4"	600	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	1480 psig at 100F	-20
Valve	1900				CL.150, CL.300,	ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-20
	1				CL.600 Flanged,	ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-20
					Buttweld	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	1100	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
Valve	1900				CL.150, CL.300	ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
					Flanged, Buttweld	ASTM A351-CF3M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	600 psig at 100F	-20 -20
				Ì		ASTM A494-M35-1 Monel 400	600 psig at 100F	-20
				1		ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-20
Bottom Entry and	1700	ASME B16.34	1/4" thru 1-1/4"	600	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	1480 psig at 100F	-20
Side Entry Diverter	1800	ľ		1	CL.150, CL.300,	ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-20
Valve				İ	CL.600 Flanged,	ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-20
					Buttweld	ASTM A351-CN7M Alloy 20	1200 psig at 100F	-20
		1			i	ASTM A494-M35-1 Monel 400	1200 psig at 100F	-20 -20 -20 -20 -20
						ASTM A494-CW12MW Hastelloy C	1200 psig at 100F	-20
Bottom Entry and	1700	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
Side Entry Diverter	1800				CL.150, CL.300	ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
Valve					Flanged, Buttweld	ASTM A351-CF3M Stainless Steel	720 psig at 100F	-20
						ASTM A351-CN7M Alloy 20	600 psig at 100F	-20
	1					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	ASME B16.34	1/2" thru 10"	150	CL.150 Flanged	ASTM A216-WCB Carbon Steel	285 psig at 100F	-20
	9900					ASTM A351-CF8M Stainless Steel	275 psig at 100F	-20
	1	·				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	ASME B16.34	1/2" thru 10"	300	CL.300 Flanged	ASTM A216-WCB Carbon Steel	740 psig at 100F	-20
	9900					ASTM A351-CF8M Stainless Steel	720 psig at 100F	-20
Inspection Technical		ffice of the Fire				ASTM A351-CN7M Alloy 20	600 psig at 100F	-20 -20
Manitoba	30111000					ASTM A494-M35-1 Monel 400	600 psig at 100F	-20
Ma	uhitoba					ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-20

THIS IS PART OF CRN

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15-Dec-16

AVCO VALVES & CONTROL, INC.

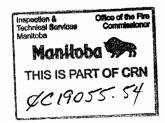
3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



PAGE 2 OF 3

SCOPE OF CRN REGISTRATION CONTINUED

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



15-Dec-16

AVCO VALVES & CONTROL, INC.

3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



PAGE 3 OF 3

SCOPE OF CRN REGISTRATION CONTINUED

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

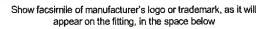
- Note 1: In all cases the pressure-temperature ratings of the valves may be limited by the seat and seal materials. Consult AVCO literature.
- Note 2: In all cases the pressure-temperature ratings of a flanged valve are limited by the pressure-temperature ratings of the flange.
- Note 3: Consult factory for valve ratings with buttweld 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





	DECLARATION on of Fittings	
I. MARK WEINER, CEO		
(Name and Position, e.g. President, I	Plant Manager, Chief Engineer)	
of AVCO VALVES & CONTROL, INC.		
(Name of Manu	ufacturer)	
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 a and Pressure Vessels Regulation, comply with all of the requASME B16.34, ASME B31.3		ards and Safety Act, Boilers
(Title of recognized North A		king the fittings and service:
which specifies the dimensions, materials of construction, pressure	Memperature raungs, identification mai	king the littings and service,
pressure/temperature ratings and the basis for such ratings, the	ached data which identifies the dimen e marking of the fitting for identificati	sions, material of construction, on and service.
I further declare that the manufacture of these fittings is controlled by		ments of 150.9001.2015
which has been verified by the following authority, A The items covered by this declaration, for which I seek registration, are cate		
this application, the following information and/or test data are attached as fo		type illurgs. It support of
SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWII		(8)
(drawings, calculations	, test reports, etc.)	
Declared before me at	in the	of
the day ofAD 20_		
Commissioner for Oaths:	•	
(Printed name)	0	
	Jula adi	
(Signature)	(Signature	of Declarer)
FOR OFFICE To the best of my knowledge and belief, the application meets the requirements Technical Standards and Safety Act, Boilers and Pressure Vessels R CSA Standard B51 and is accepted for registration in Category	rements of the	Golfenseach Facarro Sessifo Segraphia (Lassa
	<u>C</u>	
CRN: OC 19055.5	<u>C</u>	19055.5
CRN: OC 19055.5 Registered by: RUIMING YOU	<u>C</u>	19055.5
Registered by: Registered by: RUIMING YOU Dated: TAN. 5, 2017	<u>C</u>	P97

NOTE: This registration expires on JAN-3, 2027

PV 09553 (06/04) MSTE: SEE 3) PAGES SCOPE OF REGISTRATION ATTACHED.

3 /5/17

3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



THIS IS PART OF CRN OCI 9055-5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program 05-Jan-17

PAGE 1 OF 3

SCOPE OF CRN REGISTRATION

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

3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



THIS IS PART OF CRN OC19055.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program 15-Dec-16

PAGE 2 OF 3

SCOPE OF CRN REGISTRATION CONTINUED

Product	AVCO	Design	Size Range	Body	End Connection	Material	MAWP	MDMT
Description	Series	Code		Class	(Note 1,2)	Specification	(psig)	(F)
ASME BPE Three	2100	ASME BPE,	1/2" thru 4"	N/A	ASME BPE Clamp	ASTM A351-CF8M Stainless Steel	Size 1/2" thru 2-1/2"	-20
Piece Ball Valve,	2700	ASME B31.3.			Ferrule (Note 6)	ASTM A351-CF3M Stainless Steel	200 psig at 100F	
Bottom Entry and	2800					ASTM A351-CN7M Alloy 20	165 psig at 250F	
Side Entry Diverter	2900					ASTM A494-M35-1 Monel 400	Size 3"	
Valve.						ASTM A494-CW12MW Hastelloy C	200 psig at 100F	
							150 psig at 250F	
							Size 4"	7
							200 psig at 100F	
							125 psig at 250F	
ASME BPE Three	2100	ASME BPE,	1/2" thru 4"	N/A		ASTM A351-CF8M Stainless Steel	Size 1/2" thru 1"	-20
Piece Ball Valve,	2700	ASME B31.3.				ASTM A351-CF3M Stainless Steel	1500 psig at 100F	
Bottom Entry and	2800				tube, Size 4": 0.085"		Size 1-1/2" and 2"	
Side Entry Diverter	2900				wall tube (Note 7)		1000 psig at 100F	
Valve.							Size 2-1/2"	
							800 psig at 100F	
							Size 3"	
							700 psig at 100F	_
							Size 4"	
AGNE DDE TI	0.100						650 psig at 100F	
ASME BPE Three	2100	ASME BPE,	1/2" thru 4"	N/A		ASTM A494-CW12MW Hastelloy C	Size 1/2" thru 1"	-20
Piece Ball Valve,	2700	ASME B31.3.			thru 3": 0.065" wall		1500 psig at 100F	
Bottom Entry and	2800				tube, Size 4": 0.085"		Size 1-1/2" and 2"	
Side Entry Diverter Valve.	2900				wall tube (Note 7)		1000 psig at 100F	
valve.							Size 2-1/2"	
							850 psig at 100F	
							Size 3"	
							700 psig at 100F	
							Size 4"	
	J		l				700 psig at 100F	

3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



THIS IS PART OF CRN 000 90 55.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

15-Dec-16

PAGE 3 OF 3

SCOPE OF CRN REGISTRATION CONTINUED

Product	AVCO	Design	Size Range	Body	End Connection	Material	MAWP	MDMT
Description	Series	Code		Class	(Note 1,2)	Specification	(psig)	(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"	ASTM A351-CN7M Alloy 20 ASTM A494-M35-1 Monel 400	Size 1/2" thru 1" 1500 psig at 100F Size 1-1/2" 1000 psig at 100F Size 2" 850 psig at 100F Size 2-1/2" 700 psig at 100F Size 3" 550 psig at 100F Size 4"	-2(
							Size 3" 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 buttweld 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 D Registration		
I. MARK WEINER, CEO		
(Name and Position, e.g. President, Pla	nt Manager, Chief Engineer)	
of AVCO VALVES & CONTROL, INC.		
(Name of Manufac	durer)	
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 and Pressure Vessels Regulation, comply with all of the require ASME B16.34, ASME B31.3	ements of	ds and Safety Act, Boilers
(Title of recognized North Ame which specifies the dimensions, materials of construction, pressure/te	rican Standard) mperature ratings, identification marki	ng the fittings and service;
or are not covered by the provisions of a recognized North Ame as supported by the attach pressure/temperature ratings and the basis for such ratings, the n	ed data which identifies the dimension	ons, material of construction,
I further declare that the manufacture of these fittings is controlled by a quantum which has been verified by the following authority, ANA	uality system meeting the requirem	
The items covered by this declaration, for which I seek registration, are categor		type fittings. In support of
this application, the following information and/or lest data are attached as follow		type liaings. In support of
SCOPE OF CRN REGISTRATION, DESIGN REPORTS, DRAWING		
(drawings, calculations, tes	t reports, etc.)	**
Declared before me atin 1	he	of
the day of AD 20		
Commissioner for Oaths:		
- man and an an an an an an an an an an an an an		
(Printed name)	9,001	
	Mal Cide	
(Signature)	(Signature of	Declarer)
FOR OFFICE US To the best of my knowledge and belief, the application meets the requirem Technical Standards and Safety Act, Boilers and Pressure Vessels Regu	ents of the	
CSA Standard B51 and is accepted for registration in Category		GE Group
CSA - OC 19055.56	REGISTERED CRN: CSA - OC 19	1055.56
Registered by: R. BARNES	No. 75 and and	8 8
Dated: FEB · 07 · 2017	Registration Process a CSA Group per CSA B	administered by 51
NOTE: This registration expires on JAN · 05 · 20	23-	



THIS IS PART OF CRN OCI 9055-5

Technical Standards & Salety Authority Boilers & Pressure Vessels Safety Program 05-Jan-17

PAGE 1 OF 3

SCOPE OF CRN REGISTRATION

Product	AVCO	Design	Size Range	Body	End Connection	Material	MAWP	MDMT
Description	Series	Code		Class	(Note 1,2,3)	Specification (Note 4)	(psig) (Note 5)	(F)
Three Piece Ball	1100	ASME B16.34	1/4" thru 1-1/4"	600	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	1480 psig at 100F	
Valve	1900				CL.150, CL.300,	ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-2
					CL.600 Flanged,	ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-2 -2 -2
	1	1	ļ		Buttweld	ASTM A351-CN7M Alloy 20	1200 psig at 100F	-2
	1			1		ASTM A494-M35-1 Monel 400	1200 psig at 100F	-2
			<u> </u>			ASTM A494-CW12MW Hastelloy C	1200 psig at 100F	-2
Three Piece Ball	1100	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	740 psig at 100F	-2
Valve	1900				CL.150, CL.300	ASTM A351-CF8M Stainless Steel	720 psig at 100F	-2
					Flanged, Buttweld	ASTM A351-CF3M Stainless Steel	720 psig at 100F	-2
						ASTM A351-CN7M Alloy 20	600 psig at 100F	-2
					1	ASTM A494-M35-1 Monel 400	600 psig at 100F	-2
						ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-2
Bottom Entry and	1700	ASME B16.34	1/4" thru 1-1/4"	600	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	1480 psig at 100F	-2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -
Side Entry Diverter	1800			l	CL.150, CL.300,	ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-2
Valve					CL.600 Flanged,	ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-2
					Buttweld	ASTM A351-CN7M Alloy 20	1200 psig at 100F	-2
						ASTM A494-M35-1 Monel 400	1200 psig at 100F	-2
				L .		ASTM A494-CW12MW Hastelloy C	1200 psig at 100F	-2
Bottom Entry and	1700	ASME B16.34	1-1/2" thru 4"	300	FNPT, Socket Weld,	ASTM A216-WCB Carbon Steel	740 psig at 100F	-2
Side Entry Diverter	1800	1			CL.150, CL.300	ASTM A351-CF8M Stainless Steel	720 psig at 100F	-2
Valve					Flanged, Buttweld	ASTM A351-CF3M Stainless Steel	720 psig at 100F	-2
	1					ASTM A351-CN7M Alloy 20	600 psig at 100F	-2
	1					ASTM A494-M35-1 Monel 400	600 psig at 100F	-2
						ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-2
Flanged Ball Valve	9100	ASME B16.34	1/2" thru 10"	150~	CL.150 Flanged	ASTM A216-WCB Carbon Steel	285 psig at 100F	-2
	9900	((:	(CSA / Coup	ア/- ブ	-	ASTM A351-CF8M Stainless Steel	275 psig at 100F	-2
	1	A.	Caldon	-		ASTM A351-CN7M Alloy 20	230 psig at 100F	-2
						ASTM A494-M35-1 Monel 400	230 psig at 100F	-2
						ASTM A494-CW12MW Hastelloy C	230 psig at 100F	-2
Flanged Ball Valve	9100	ASMEB16,34T	TO1/2" thru 10"	300	CL.300 Flanged	ASTM A216-WCB Carbon Steel	740 psig at 100F	-2
	9900	254	100	الموارا	-/	ASTM A351-CF8M Stainless Steel	720 psig at 100F	-2 -2
		CRN	- OC190	17.	0	ASTM A351-CN7M Alloy 20	600 psig at 100F	-2 -2
		1/	1-2			ASTM A494-M35-1 Monel 400	600 psig at 100F	-2
		Cionad CC	M 300	2	K.	ASTM A494-CW12MW Hastelloy C	600 psig at 100F	-2

178 Rexulate Boulevard, Terento, ON Canada M9W 1R3



THIS IS PART OF CRN OC19055.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program 15-Dec-16

PAGE 2 OF 3

SCOPE OF CRN REGISTRATION CONTINUED

Product	AVCO	Design	Size Range	Body	End Connection	Material	MAWP	MDMT
Description	Series	Code		Class	(Note 1,2)	Specification	(psig)	(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 Size 3" 200 psig at 100F 150 psig at 250F Size 4" 200 psig at 100F 125 psig at 250F	-2(
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		ASTM A351-CF8M Stainless Steel ASTM A351-CF3M Stainless Steel	Size 1/2" thru 1" 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	-20
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 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	-20

ATTACHMENT TO

C.R.N.C.A.-OCIGOST. 5

Signed: Low David

178 Rexdale Boudevard, Tercento, GN Canada M9W 1R3



THIS IS PART OF CRN OC. 1 9055.5

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	MAWP	MDMT
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"	Specification ASTM A351-CN7M Alloy 20 ASTM A494-M35-1 Monei 400	(psig) Size 1/2" thru 1" 1500 psig at 100F Size 1-1/2" 1000 psig at 100F Size 2" 850 psig at 100F Size 2-1/2" 700 psig at 100F Size 3" 550 psig at 100F Size 4" 550 psig at 100F	-20

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 buttweld 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 timeed by the clamp type used in the joint assembly Consult Clamp Manufacturer for clamp Pressure-Temperature ratings are consulted by the clamp type used in the joint assembly Consult Clamp Manufacturer for clamp Pressure-Temperature ratings are consulted by the clamp type used in the joint assembly Consult Clamp Manufacturer for clamp Pressure-Temperature ratings are consulted by the clamp type used in the joint assembly Consult Clamp Manufacturer for clamp Pressure-Temperature ratings are consulted by the clamp type used in the joint assembly Consult Clamp Manufacturer for clamp Pressure-Temperature ratings are consulted by the clamp type used in the joint assembly Consult Clamp Manufacturer for clamp Pressure-Temperature ratings are consulted by the clamp type used in the joint assembly Co

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.

ATTACHMENT TO

Signed Vaus Same

178 Rexidate Boutevard, Forcato, dN Hanada MSW 1R3

JNAVUT	YUKON .	NORTHWEST TERRITO		THE CONTROLLE AND PUBLISHED	
MANUFACTURERS NAME;	AVCO VALVES & CONTROL	., INC.			
MANUFACTURERS ADDRESS	3210 S. SUSAN ST., SANTA	ANA, CA, 92704			
PLANT LOCATIONS:	SAME AS ABOVE				
	INGS TO BE REGISTERED. C			TITLE OF THE STANDARD OF CONSTRUCTION	
A Pipe fillings, including coupil B Flanges: all flanges © Valves: all lino valves			rB.	- ASME B16.34 - ASME B31.3	
D Expansion joints, flexible con E Strainers, filters, separators, F Messuring devices, including	and steam traps				
pressure transmitters G Contilled capacity-rated pressure vessele, pi	egula eldizut bna pnia		rotaction on		
H Pressure retaining compone N Nuclear components; Class			and and a stell	`	
SHOW MANUFACTURERS NA				TYPE OF CONSTRUCTION	
	AVCO		<u> </u>	PORGED WELDED X WAOUGHT X GAST X OTHER D DESCRIBE OTHER;	
LIST OF SUPPORTING DOC	IMENTATION AND IDENTIFIC	ATION OF THE ACTUAL	ITEMS TO BE RE	GISTERED:	
•			•	, and the same of	
- SCOPE OF CRN REGISTR	ATION, DESIGN REPORTS, DI	rawings, calculatio	DNS		
	•		•		
	•				١
my knowledge represents the temperature ratings, and idemandacture of these fitting or in part and has been year.	of the end product do solen he product for which registra ontification merkings are in is is regulated by a Quality (ified by ISO:9001:2015 ANAB	nnly declare that the in allon is sought. The di accordance with the he Control Program which as t	formation containmensions, materi mensions, materi rein named stan extends to each peing sultable for	eing the person having full authority and ned in this form is true and to the bost of fals of construction, pressure dards, I further declare that the plant where fabrication occurs in whole that purpose and I make this solomn offect as if made under oath.	
Signature of Declaror:	Mak (Lei		-		
Declared before me at			USETHI	S SPACE FOR	
This day of _	AD		OF	FICIAL BEST	
Commissioner of Oaths or Notary Public: (sign)					
	This	space for Regulatory Au	thority use		\neg
Т	his registration must be rev	alidated after ten (10) ;			1
CRN: 0C19055.	5		ACC	EPTED	1
011111		PRO	VINCE OF PRIN	ICE EDWARD ISLAND	- 1
FID#: 15416	-	CON	imunities, la	MD & RUATIONING	- 1
		CA	N. 0019	655.59	
Notes:	stered in the name of the Manut	facture.	L 1	9 2017	
2. Each calegory shall be	supported with two Statutory D	eclaration DAT	تعصماتند الا	<u> </u>	
forms and one copy of sup	pporling documentation. A mode by the person having fu	ill authority and	Lummit	/Tech	
responsibility for the qualit	y of the end product.		INEPECTION	ERVICES SECTION	
4. Quality control program at a maximum interval of f	ns shall be resubmitted for valid	allon B	OILER/PRESSI	JRE VESSEL BRANCH Sect. 1.0 - Filtings Rev. 1 06/2	200
at a waximum interval of t	146 (V) Years.				

EW BRUNSWICK UNAVUT	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		
	NGS TO BE REGISTERED, C	IRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplin B Flanges; all flanges © Valves: all line valves D Expansion joints, flexible con E Strainers, filters, separators,	nections, and hose assemblies and steam traps	: all lypes	- ASME B16.34 - ASME B31.3
bollers, pressure vessels, pi	aure relief devices acceptable s ping and fusible plugs	s primary over pressure protection on	
H Pressure retaining components: Class	·	Meeting CNSC or ASME requirements)	
		AS IT WILL APPEAR ON THE PRODUC	T TYPE OF CONSTRUCTION
GITSTI HEALTS IN A	(AVCC	THE ALL SAN ON THE PROOF	FORGED W WELDED & WROUGHT & CAST & OTHER O DESCRIBE OTHER:
LIST OF SUPPORTING DOC	UMENTATION AND IDENTIFIC	CATION OF THE ACTUAL ITEMS TO BE	REGISTERED;
- SCOPE OF CRN REGISTR	ATION, DESIGN REPORTS, D	PRAWINGS, CALCULATIONS	
my knowledge represents temperature ratings, and ic manufacture of these fitting or in part and has been ve	y of the end product do sole the product for which registr dentification markings are in gs is regulated by a Quality thiled by ISO:9001:2015 ANAR	mnly declare that the information cont ation is sought. The dimensions, mat accordance with the herein named at Control Program which extends to ea	andards, I further declare that the ch plant where fabrication occurs in who for that purpose and I make this solemn
Declared before me at		USETH	IIS SPACE FOR
	AD		FEICIAL BEAL
Commissioner of Oaths			
-		s space for Regulatory Authority use validated after ten (10) years from the	dale of acceptance,
CRN: 0C19055.	5	& PRE	SSURE VE
FID#: 15416		NOVA	5000 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Notes: 1. All fittings shall be regi 2. Each category shall be forms and one copy of su 3. The declaration shall be responsibility for the gual	be made by the person having	ufacturer, Declaration full authority and	9055.58 Jescribed The Perry Tod 1 Part Part Sect. 1.0 · Fillings Rev. 1 06
at a maximum interval of		a k	Sect. 1.0 - Filtings Rev. 1 06

NEW BRUNSWICK NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAME:	AVCO VALVES & CO	NTROL, INC.	and the second s
MANUFACTURERS ADDRESS:	3210 S. SUSAN ST., S	SANTA ANA, CA, 92704	
PLANT LOCATIONS: CATEGORY OF FITTI	SAME AS ABOVE	ED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including coupling B Flanges: all flanges (a) Valves: all line valves D Expansion joints, flexible content of the strainers, filters, separators, including pressure transmitters G Certified capacity-rated pressure vessels, piped the pressure retaining componers.	nections, and hose asse and steam traps pressure gauges, level g sure relief devices accep ping and fusible plugs at that do not fall into on	ngs, unions, pipe caps, or reducers mblies: all types pauges, sight glasses, levels, or table as primary over pressure protection on	- ASME B16.34 - ASME B31.3
SHOW MANUFACTURERS NAI	ME, TRADEMARK, OR	LOGO AS IT WILL APPEAR ON THE PRODUC	TYPE OF CONSTRUCTION FORGED X WELDED X WROUGHT X CAST X OTHER D DESCRIBE OTHER:
LIST OF SUPPORTING DOCU	MENTATION AND IDE	NTIFICATION OF THE ACTUAL ITEMS TO BE	REGISTERED:
my knowledge represents the temperature ratings, and ide manufacture of these fittings or in part and has been veriful declaration conscientiously. Signature of Declarer:	of the end product do e product for which re ntification markings a is regulated by a Quited by ISO:9001:2015 / believing it to be true,	solemnly declare that the information cont gistration is sought. The dimensions, mat re in accordance with the herein named st- ality Control Program which extends to each ANAB as being suitable f and knowing that it is of the same force an	erials of construction, pressure andards. I further declare that the ch plant where fabrication occurs in whole or that purpose and I make this solemned effect as if made under oath.
Declared before me at		USETH	ISASPAGE FOR
This day of Commissioner of Oaths or Notary Public: (sign)			OF PUBLIC SAFETY PRESSURE VESSEL ACT
<u></u>		This space for Regulatory Authority use	
CRN: 0C19055.5 FID#: 15416		e revalidated after ten (10) years from the CRN _	OC19055.57
Notes: 1. All fittings shall be registe 2. Each category shall be st forms and one copy of support 3. The declaration shall be responsibility for the quality 4. Quality control programs	upported with two Statute orting documentation. made by the person havi of the end product. shall be resubmitted for	ng full authority and	F BOILER INSPECTOR 10 2017- BLRs FV3

W BRUNSWICK NAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND N NORTHWEST TERRITORIES	EWFOUNDLAND AND LABRADOR
ANUFACTURERS NAME:	AVCO VALVES & CONT	ROL, INC.	
ANUFACTURERS ADDRESS:	3210 S. SUSAN ST., SAI	NTA ANA, CA, 92704	
ANT LOCATIONS:	SAME AS ABOVE		
CATEGORY OF FITTU	NGS TO BE REGISTERED	O, CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
Pipe fittings, including coupling Flanges; all llanges Valves: all line valves Expansion joints, flexible conf		unions, pipe caps, or reducers	- ASME B16.34 - ASME B31.3
Strainers, filters, separators, a Measuring devices, including pressure transmitters Certified capacity-rated press boilers, pressure vessels, pig	ind steam traps pressure gauges, level gau ure relief devices acceptat ing and fusible plugs	iges, sight glasses, levels, or ole as primary over pressure protection on	
Pressure retaining componer			
		3. (Meeting CNSC or ASME requirements)	
IOW MANUFACTURERS NAI	AVC	OGO AS IT WILL APPEAR ON THE PRODUCT	FORGED X WELDED X WROUGHT X CAST X OTHER D DESCRIBE OTHER.
IST OF SUPPORTING DOCU	MENTATION AND IDENT	IFICATION OF THE ACTUAL ITEMS TO BE R	EGISTERED; .
POODE OF ADU DEGLOTE:	TION DECIGN SECONT	S, DRAWINGS, CALCULATIONS	
DECLARATION:	•		
my knowledge represents it temperature ratings, and ide manufacture of these fitting or in part and has been ver declaration conscientiously Signature of Declarer:	of the end product do so the product for which regentification markings are is regulated by a Qualified by 180:9001:2015 Albertal believing it to be true, and the second	and knowing that it is of the same force an	ined in this form is true and to the best of rials of construction, pressure indards. I further declare that the in plant where fabrication occurs in whole in that purpose and I make this solemn id effect as if made under oath.
Declared before me at			IS SPACE FOR
This day of _	AD	OF	FICIAL BUAK
Commissioner of Oaths or Notary Public: (sign)			
		This space for Regulatory Authority use	_
T	his registration must be	revalidated after ten (10) years from the o	iale of acceptance.
CRN: 0C19055.	5		Newforkalland Labrador
			Service NL
FID#: 15416	1		Registered <u>OC 19055.50</u>
			Date
Notes:		to auto at	Engineering and Inspection Services
All fillings shall be regis Each calegory shall be	tered in the name of the M supported with two Stability	nanutacturar. Dry Declaration	I WIT
forms and one copy of sup	porting documentation.		Registered .
3. The declaration shall be	made by the person havi	ng full authority and	UNDER THE AUTHORITY OF THE
responsibility for the qualit	y of the end product. Is shall be resubmitted for	validation	PUBLIC SAFETY ACTIAND THE BOILER, PRESSURE VESSEL AND
at a maximum interval of f	ive (5) years.		COMPRISECUDICUS FILLINGS FILLINGS OF

NEW BRUNSWICK NUNAVUT

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

·		
MANUFACTURERS NAME: A\	/CO VALVES & CONTROL, INC.	
MANUFACTURERS ADDRESS: 32	10 S. SUSAN ST., SANTA ANA, CA, 92704	
Date Localities	ME AS ABOVE	
A Pipe fittings, including couplings, t	ees, elbows, Ys, plugs, unions, pipe caps, or reducers	- ASME B16.34
B Flanges: all flanges C) Valves: all line valves		- ASME B31.3
D Expansion joints, flexible connect		
 Strainers, filters, separators, and separators, and separators Measuring devices, including presented 	steam traps sure gauges, level gauges, sight glasses, levels, or	
pressure transmitters		
bollers, pressure vessels, piping	relief devices acceptable as primary over pressure protection on and fusible plugs	
H Pressure retaining components the	nat do not fall into one of the above categories	
	Class 2 ☐ Class 3 ☐, (Meeting CNSC or ASME requirements)	
HOW MANUFACTURERS NAME.	TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION FORGED X WELDED X WROUGHT X
	ANTO	FORGED X WELDED X WROUGHT X CAST X OTHER D DESCRIBE OTHER:
· • • • • • • • • • • • • • • • • • • •	LAVUU	
LIST OF SUPPORTING DOCUME	NTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE RE	EGISTERED:
20005 05 0011 0501070 1710	AL DECICAL DEPOSITO DE AMINOS. CAL CUIL ATICANO	
- SCOPE OF CRN REGISTRATIO	N, DESIGN REPORTS, DRAWINGS, CALCULATIONS	
	•	
•		
DECLARATION:		
MARK WEINER, CEO	(see note 3) employed by AVCO VALVES & CONTROL and b	eing the person having full authority
	ne end product do solemnly declare that the information contain roduct for which registration is sought. The dimensions, mater	
temperature ratings, and identif	ication markings are in accordance with the herein named stan	dards. I further declare that the
manufacture of these fittings is or in part and has been verified	regulated by a Quality Control Program which extends to each	
or in part and has been ventiled declaration conscientiously beli	eving it to be true, and knowing that it is of the same force and	that purpose and I make this solemn
<i>C</i> ,,		
Signature of Declarer:	Ch (Valie	
		S SPACE FOR
This day of	AD O ·F	FICTAL BEAT
Commissioner of Oaths or Notary Public: (sign)		
	This space for Regulatory Authority use	ata of accordance
This r	registration must be revalidated after ten (10) years from the d	ate of acceptance.
CRN: 0C19055.5		WHENT OF
15416		4
FID#: 13410		32

- 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.



Sect. 1.0 - Fittings Rev. 1 06/2003

EW BRUNSWICK UNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAME:	AVCO VALVES & CO	NTROL, INC.	
MANUFACTURERS ADDRES	SS: 3210 S. SUSAN ST., S	SANTA ANA, CA, 92704	
PLANT LOCATIONS:	SAME AS ABOVE		
CATEGORY OF FI	ITINGS TO BE REGISTER	ED, CIRCLE ONE CAYEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
B Flanges; all flanges © Valves: all lino valves		ıgs, unions, pipe caps, or roducera	- ASME B16.34 - ASME B31.3
pressure transmitters	rs, and steam traps Ing pressure gauges, level (gaugos, sight glasses, levels, or	
bollors, pressure vessols, H Pressure retaining compo	piping and fusible plugs nonts that do not fall into or		
N Nuclear components; Cla	155 1 🗆 Class 2 🗖 Class :	3 (Meeting CNSC or ASME requirements)	
SHOW MANUFACTURERS	NAME, TRADEMARK, OR	LOGO AS IT WILL APPEAR ON THE PRODU	TYPE OF CONSTRUCTION FORGED X WELDED X WROUGHT X CAST X OTHER D DESCRIBE OTHER:
LIST OF SUPPORTING DO	CUMENTATION AND IDE	NTIFICATION OF THE ACTUAL ITEMS TO BE	REGISTERED:
DECLARATION;	'	•	
MARK WEINER, CEO responsibility for the qual my knowledge represent temperature ratings, and manufacture of these filth or to part and has been y	ity of the end product do a the product for which re- identification markings a ngs is regulated by a Qu rerified by ISO:9001:2015 by believing it to be true	, and knowing that it is of the same force a	ntained in this form is true and to the bes iterials of construction, pressure standards. I further declare that the ach plant where fabrication occurs in wh for that purpose and I make this solemn and effect as if made under path.
Declared before me at		UŞETI	HIS SPACE FOR
This day o	fA	.DO	FFICIAL BUAL CO.
Commissioner of Oaths or Notary Public: (sign)			
		This space for Regulatory Authority use	/ 10.00
	This registration must be	pe revalidated after ten (10) years from the	
CRN: 0C19055	. 5	f	REGISTERED
FID#: 15416		:	UNDER THE AUTHORITY
2. Each calegory shall l	gistored in the name of the be supported with two State upporting documentation.	Manufacturer, vitory Declaration	C.R.N. OC19035.5.1 SIGNED TO 2017

· UIO 14' 60 · 07' / 1 - 60 - 70

Scci. 1.0 - Filtings Rev. 1 06/2003

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responsibility for the quality of the and product.

at a maximum interval of five (5) years.

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3. The declaration shall be made by the person having full authority and

4. Quality control programs shall be resubmitted for validation

10:ACI CENTRAI ;86/

EW BRUNSWICK JNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD I NORTHWEST TER	·	IEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAME:	AVCO VALVES & CONT	ROL, INC.		
MANUFACTURERS ADDRESS	: 3210 S. SUSAN ST., SA	NTA ANA, CA, 92704		
PLANT LOCATIONS:	SAME AS ABOVE			·
, ,,	INGS TO BE REGISTERED			TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including coupli B Flanges: all flanges © Valves: all line valves D Expansion joints, flexible con E Strainers, filters, separators,	nnections, and hose assemb and steam traps	olles; all types		- ASME B16.34 - ASME B31.3
F Measuring devices, including pressure transmitters G Certified capacity-rated presbollers, pressure vessels, p	sure relief devices acceptal iping and fusible plugs	ble as primary over pressu		
H Pressure retaining compone		-		
N Nuclear components: Class				TYPE OF CONSTRUCTION
SHOW MANUFACTURERS NA	(AVC	O O	NON THE PRODUCT	FORGED X WELDED X WROUGHT X CAST X OTHER DESCRIBE OTHER:
LIST OF SUPPORTING DOC	UMENTATION AND IDENT	IFICATION OF THE ACT	UAL ITEMS TO BE F	REGISTERED: .
- SCOPE OF CRN REGISTE	ATION, DESIGN REPORT	S, DRAWINGS, CALCUL	ATIONS	
DECLARATION:				
responsibility for the quality my knowledge represents temperature ratings, and it manufacture of these fitting or in part and has been year.	y of the end product do s the product for which reg dentification markings are gs is regulated by a Qua rified by ISO:9001:2015 A	olemnly declare that the jistration is sought. The in accordance with the lity Control Program with NAB	e information conta e dimensions, mate e herein named sta nich extends to eac as being suitable fo	being the person having full authority ar lined in this form is true and to the best of trials of construction, pressure indards. I further declare that the h plant where fabrication occurs in whole of that purpose and I make this solemn id effect as if made under oath.
Signature of Declarer:	Mal Cikin	,		
Declared before me at	<u> </u>		USETH	IS SPACE FOR
	AD			FICIAL OF 61
Commissioner of Oaths or Notary Public: (sign)				
		This space for Regulator		NUNAVUT
	This registration must be	revalidated after ten (10) years from the	date of acceptance. Boilers and
CRN: 0C19055.	5		1.400	Dullers driv
071111			Nu. ให้น	t Pressure Vessels Act
FID#: 15416	-	4		REGISTERED
			1	
Notes:	intered in the name of the U	lanufacturar	Ν	OC19055, SN
2. Each category shall be	istered in the name of the N e supported with two Statute	ory Declaration	i at e	Feb 10, 2017,
forms and one copy of su	poorting documentation.			7511 (1)
3. The declaration shall to responsibility for the qual	be made by the person havi	ing itili authority and	yn ed	(Myag
4. Quality control progra	ms shall be resubmitted for	validation		Chlet inspector sect 10 Filtings Rev. 1 00/
at a maximum interval of	five (5) years.		1	. \ /
			Te	rritorial Registration Fe
			1	