



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

May 04, 2017

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

Service Request Type.: BPV-National MB
Service Request No.: 2016042
Your Reference No.: R-0644 AVCO BALL VALVES
Registered to.: ALLOY VALVES & CONTROL INC – AVCO

Dear SCOTT ISLIP,

Please find enclosed the original response from MB, registered under the CRN No.: 0C19055.54.

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

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

Yours truly,

Joanna Karpinski

Tel: 416-734-3377
Fax: 416-231-6183
Email: jkarpinski@tssa.org



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)

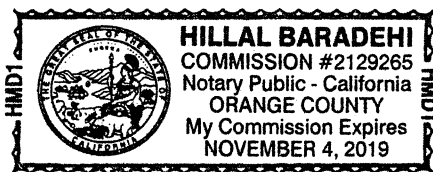
Subscribed and sworn to (or affirmed) before me on this 17th day of MAY, 2016
Date Month Year

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, 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
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

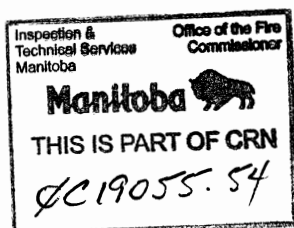


15-Dec-16

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.

