

345 Carlingview Drive Toronto, Ontario CANADA M9W 6N9 Tel.: 416.734.3300 Fax.: 416.231.1626

Fax.: 416.231.1626 Toll Free: 1.877.682.8772

www.tssa.org

April 12, 2017

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

Service Request Type.: BPV-National AB

Service Request No.: 2015948

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 AB, registered under the CRN No.: 0C19055.52.

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

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

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering

Tel.: 416-734-3423 Fax: 416-231-6183 Email:tfrancis@tssa.org

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	•	•						
100	(name of applicant) (name of manufacturer) (d at 3210 S. SUSAN ST., SANTA ANA, CA, 92704 (plant address) (point address) (point address) (plant address) (plan							
	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			ecifies the dimensions,				
	materials of construction, press	ure/temperature rati	ngs and identification marki	ng of the fittings, or				
	are not covered by the provision	ıs 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	applicable 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	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 seel	registration, are				
CATEGORY C - VALVES								
In	support of this application, the follow		= :	re attached:				
_	OOOI E OF CRITICEOUTHATION,	JEGIGIA IVELI GIVIG	, DIVAVVIINOO, OALOOLATI	0140				
DI	ECLARED before me at(city)	in the		nrovince or state)				
th	is day of	(Month)		province or state)				
(p	rint)	,	(rear)					
(s	ign) (a Commissioner of Oaths or Notar	y Public)		of applicant)				
For ABSA Office Use Only:								
Ν	OTES:							
				Safety Codes Act and CSA				
R	egistration Number: 0 (1 9 (55,52	A Signature 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
by MARK Weiner	······································
Name of Signers	
proved to me on the basis of satisfactory evidence to be the person	(s) who appeared before me.
. /	,
10000	700000000000000000000000000000000000000
Signature:	HILLAL BARADEHI COMMISSION #2129265
Signature of Notary Public	Notary Public - California
Signature of Notary rabile	ORANGE COUNTY OMY Commission Expires
	NOVEMBER 4, 2019
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	Place Notary Seal Above
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Though this section is optional, completing this information can de	eter alteration of the document or fraudulent
attachment of this form to an unintended document.	
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3210 S. SUSAN ST. SANTA ANA, CALIFORNIA USA, 92704



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05-Jan-17

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,		1480 psig at 100F	-20
Valve	1900				CL.150, CL.300,	ASTM A351-CF8M Stainless Steel	1440 psig at 100F	-20
	1			1	CL.600 Flanged,	ASTM A351-CF3M Stainless Steel	1440 psig at 100F	-20
			1		Buttweld	ASTM A351-CN7M Alloy 20	1200 psig at 100F	-20
			1			ASTM A494-M35-1 Monel 400	1200 psig at 100F	-20
	İ					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 -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 -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 -20 -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			ļ	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			l		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

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



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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	
	1						150 psig at 250F	
					1		Size 4"	
							200 psig at 100F	
	1						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				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			800 psig at 100F	_
					·		Size 3"	
							700 psig at 100F	4
							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	4
							Size 3"	
							700 psig at 100F	4
		1					Size 4"	
							700 psig at 100F	



AVCO VALVES & CONTROL, INC.

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



15-Dec-16

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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"] I
Side Entry Diverter	2900				wall tube (Note 7)		1000 psig at 100F	
Valve.							Size 2"	1
							850 psig at 100F	
	2						Size 2-1/2"	1
					,		700 psig at 100F	
							Size 3"	1
							550 psig at 100F	
							Size 4"	1
							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.

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Value

2017-03-14

DESIGN SURVEY ENGINEER