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November 10, 2025

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14786021
Your Reference No.: R-2224
Registered to: AALBERTS INTEGRATED PIPING SYSTEMS AMERICAS, INC.

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0C10908.5R14
Main Design No.: CRN RENEWAL AND CHANGE OWNER'S NAME -SEE SCOPE OF CRN REGISTRATION
Expiry Date: Nov 10, 2035

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

This is renewal of the CRN to under the name Aalberts Integrated Piping systems Americas Inc, See updated SCOPE OF CRN REGISTRATION.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Selina Di P. ENG
Engineer, BPV
Tel. : +1 416-734-3531
Email : sdi@tssa.org



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



integrated
piping systems



STATUTORY DECLARATION Registration of Fittings

I, Greg Goodson, Engineering Manager

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Aalberts Integrated Piping Systems Americas, Inc.

(Name of Manufacturer)

Located at 10715 Sikes Place, Suite 200, Charlotte, NC, 28277

(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 or 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, SCB

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

Scope of CRN Registration, Catalogs, Reports, Worldwide Locations Appendix

(drawings, calculations, test reports, etc.)

Declared before me at Angland SC in the State of South Carolina
the 17th day of April AD 2025.

Commissioner for Oaths:

Monica Arant
(Printed name)

Monica Arant
(Signature)

Greg Goodson
(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: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: Nov 10, 2035

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: 0C10908.5R14

Signed: SDi

Date: November 10, 2025

CRN renewal to under the name Aalberts Integrated Piping systems Americas Inc, See updated SCOPE OF CRN REGISTRATION

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

AALBERTS INTEGRATED PIPING SYSTEMS AMERICAS, INC.

10715 SIKES PLACE, SUITE 200
 CHARLOTTE, NC, 28277
 28277



10-Nov-25

THIS IS PART OF CRN**0C10908.5R14**

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety
Program**PAGE 1 OF 8****SCOPE OF CRN REGISTRATION**

Product Description	Design Code	Size Range	Process Connection(s) and Pressure Class	Valve Series	Standard Valve Body Materials (Note 8)	P-T Ratings ASME B16.34 Table 2 Group (Note 4,6,7)
Apollo Flanged Ball Valves	ASME B16.34	NPS 1-1/2" thru NPS 10"	Flanged CL150, CL300 Standard Port	87A	ASTM A351-CF8M	2.2
				87C	ASTM A351-CN7M	3.17
				87G	ASTM A479-316/316L	2.2
				87H	ASTM A494-CW-12MW	3.15
				87J	ASTM A995-CD3MN	2.13
				87K	ASTM A995 CD3MWCuN	2.13
				87M	ASTM A494-M35-1	3.4
				88A	ASTM A216-WCB	1.1
				88L	ASTM A352-LCC	1.2
Apollo Flanged Ball Valves	ASME B16.34	NPS 1/2" thru NPS 12"	Flanged CL150, CL300 Full Port	87A	ASTM A351-CF8M	2.2
				87C	ASTM A351-CN7M	3.17
				87G	ASTM A479-316/316L	2.2
				87H	ASTM A494-CW-12MW	3.15
				87J	ASTM A995-CD3MN	2.13
				87K	ASTM A995 CD3MWCuN	2.13
				87M	ASTM A494-M35-1	3.4
				88A	ASTM A216-WCB	1.1
				88L	ASTM A352-LCC	1.2
Apollo Flanged Ball Valves	ASME B16.34	NPS 1" thru NPS 12"	Flanged CL600 Full Port	87A	ASTM A351-CF8M	2.2
				87C	ASTM A351-CN7M	3.17
				87G	ASTM A479-316/316L	2.2
				87H	ASTM A494-CW-12MW	3.15
				87J	ASTM A995-CD3MN	2.13
				87K	ASTM A995 CD3MWCuN	2.13
				87M	ASTM A494-M35-1	3.4
				88A	ASTM A216-WCB	1.1
				88L	ASTM A352-LCC	1.2
Apollo Industrial 3-Piece Ball Valves	ASME B16.34	NPS 1/4" thru NPS 2"	NPT, Socket Weld, Butt Weld CL600	83B	ASTM A216-WCB	1.1
				83L	ASTM A352-LCC	1.2
				86B	ASTM A351-CF8M	2.2
				86C	ASTM A351-CN7M	3.17
				86D	ASTM A494-CW-12MW	3.15
				86E	ASTM A494-M35-1	3.4
				86G	ASTM A479-316/316L	2.2
				86J	ASTM A995-CD3MN	2.13
				86K	ASTM A995 CD3MWCuN	2.13

SCOPE OF CRN REGISTRATION

Product Description	Design Code	Size Range	Process Connection(s) and Pressure Class	Valve Series	Standard Valve Body Materials (Note 8)	P-T Ratings ASME B16.34 Table 2 Group (Note 4,6,7)
Apollo Top Entry Ball Valves	ASME B16.34	NPS 1/2" thru NPS 12"	Flanged CL150, CL300 Standard Port and Full Port	A	ASTM A351-CN7M	3.17
				B	ASTM A351-CF3M	2.2
				C	ASTM A216-WCB	1.1
				G	ASTM A351-CG8M	2.2
				H	ASTM A494-CW-12MW	3.15
				J	ASTM A995-CD3MN	2.13
				K	ASTM A995 CD3MWCuN	2.13
				L	ASTM A352-LCC	1.2
				M	ASTM A494-M35-1	3.4
				P	ASTM A217-C12	1.15
				R	ASTM A351 CN3MN	3.12
				S	ASTM A351-CF8M	2.2
				W	ASTM A351-CK3MCuN	2.8
				Y	ASTM A494 N-12MV	3.15
Apollo Top Entry Ball Valves	ASME B16.34	NPS 1/2" thru NPS 12"	Flanged CL600 Full Port	A	ASTM A351-CN7M	3.17
				B	ASTM A351-CF3M	2.2
				C	ASTM A216-WCB	1.1
				G	ASTM A351-CG8M	2.2
				H	ASTM A494-CW-12MW	3.15
				J	ASTM A995-CD3MN	2.13
				K	ASTM A995 CD3MWCuN	2.13
				L	ASTM A352-LCC	1.2
				M	ASTM A494-M35-1	3.4
				P	ASTM A217-C12	1.15
				R	ASTM A351 CN3MN	3.12
				S	ASTM A351-CF8M	2.2
				W	ASTM A351-CK3MCuN	2.8
				Y	ASTM A494 N-12MV	3.15



SCOPE OF CRN REGISTRATION

Product Description	Design Code	Valve Series	Standard Valve Body Materials	CWP Pressure Rating at 100°F (psig) - Note 5,6					
				3000	2000	1500	1000	800	400
Apollo Industrial Ball Valves	ASME B31.3	73A	ASTM A105		0.25" thru 1"	1.25" thru 2"			
		76	ASTM A351-CF8M		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		76-AR	ASTM A351-CF8M		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		76J	ASTM A995-4A		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		76J-AR	ASTM A995-4A		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		76K	ASTM A995-6A		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		76K-AR	ASTM A995-6A		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		89	ASTM A216-WCB		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		89AR	ASTM A216-WCB		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		399	ASTM A351-CN7M		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		489	ASTM A216-WCB		0.25" thru 1"	1.25" thru 2"	2.5" thru 3"		
		74	ASTM A494-CZ100					0.50" thru 2"	
		7A	ASTM A216-WCB						0.25" thru 2"
		76F	ASTM A351-CF8M				2.5" thru 3"		
		76FJ	ASTM A995-4A				2.5" thru 3"		
		76FK	ASTM A995-6A				2.5" thru 3"		
		83A	ASTM A216-WCB			0.25" thru 2"			
		86A	ASTM A351-CF8M			0.25" thru 2"			
		92	ASTM A216-WCB		0.25" thru 1"	1.25" thru 2"			
		96	ASTM A351-CF8M		0.25" thru 1"	1.25" thru 2"			
		96J	ASTM A995-4A		0.25" thru 1"	1.25" thru 2"			
		96K	ASTM A995-6A		0.25" thru 1"	1.25" thru 2"			
		7H	ASTM A351-CF8M					0.25" thru 1"	
		76-300	ASTM A351-CF8M		0.50" thru 1"	1.25" thru 2"			
		76-400	ASTM A351-CF8M		0.50" thru 1"	1.25" thru 2"			
		76-600	ASTM A351-CF8M					0.25" thru 2"	
		72	ASTM A105	0.50" thru 2"					

SCOPE OF CRN REGISTRATION

Product Description	Design Code	Size Range	Process Connection(s)	Valve Series	Standard Valve Body Materials	CWP Pressure Rating at 100°F (CWP) (Note 5,6)
Apollo Industrial 3-Piece Standard Port Ball Valves	ASME B31.3	NPS 3/4" thru NPS 2-1/2"	NPT, Socket Weld, Buttweld (Note 9)	84A	ASTM A216-WCB	1500 psig
		NPS 3/4" thru NPS 2-1/2"	NPT, Socket Weld, Buttweld (Note 9)	85A	ASTM A351-CF8M	1500 psig

Product Description	Design Code	Size Range	Process Connection(s) and Pressure Class	Valve Series	Standard Valve Body Materials (Note 8)	P-T Ratings ASME B16.34 Table 2 Group (Note 4,6,7)
Apollo Industrial 3-Piece Standard Port Ball Valves	ASME B16.34	NPS 3/4" thru NPS 2-1/2"	NPT, Socket Weld, Buttweld (Note 9) CL600	84B	ASTM A216-WCB	1.1
				84L	ASTM A352-LCC	1.2
				85B	ASTM A216-WCB	2.2
				85C	ASTM A351-CN7M	3.17
				85D	ASTM A494-CW-12MW	3.15
				85E	ASTM A494-M35-1	3.4
				85G	ASTM A479-316/316L	2.2
				85J	ASTM A995-CD3MN	2.13
				85K	ASTM A995 CD3MWCuN	2.13

Product Description	Design Code	Size Range	Process Connection(s)	Valve Series	Standard Valve Body Materials	Pressure Rating MAWP at MAWT (Note 6)
Apollo PowerPress Floating Type Ball Valves	ASME B31.3	NPS 1/2" thru NPS 2"	Press	89FV	ASTM A216-WCB, ASTM A108-12L14 (G12144)	235 psig at -40°F/338°F



SCOPE OF CRN REGISTRATION

Valve Series	Valve Models	Material Specification	Design Code	Size Range	End Connections	Pressure Rating CRN MAWP at -20°F/100°F (Note 6)	Pressure Rating CRN MAWP at -20°F/406°F (Note 6)
70-100	70-100 70-140 70-190	ASTM B584-C84400, ASTM B283-C37700, ASTM B62-C83600, ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 3"	NPT, Solder	600 psig	425 psig
70-100-BC	70-100-BC						
70-200	70-200 70-240						
70-300	70-300 70-340						
70-400	70-400 70-440						
70-800	70-800						
70B-140	70B-140 70B-150 70B-190						
71-100	71-100 71-120 71-140 71-150 71-190						
71-500	71-500 71-540 71-590						
75-100	75-100						
77-100	77-100 77-140 77-150 77-190						
77-200	77-200 77-240 77-250						
7K-100	7K-100 7K-150 7K-190						
80-100	80-100						

SCOPE OF CRN REGISTRATION

Valve Series	Valve Models	Material Specification	Design Code	Size Range	End Connections	Pressure Rating CRN MAWP at -20°F/100°F (Note 6)	Pressure Rating CRN MAWP at -20°F/406°F (Note 6)
70LF-100	70LF-100 70LF-140	ASTM B584-C89836 ASTM B927-C27451	ASME B31.3, MSS SP-110	1/4" thru 3"	NPT, Solder	600 psig	250 psig
70LF-200	70LF-200 70LF-240						
70LF-300	70LF-300 70LF-340						
70LF-400	70LF-400 70LF-440						
77C	77C-100 77C-140 77C-100-UL 77C-200 77C-240 77C-200-UL 77C-800	ASTM B584-C84400 ASTM B283-C37700 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	600 psig	425 psig
77CLF	77CLF-100 77CLF-140 77CLF-200 77CLF-240	ASTM B584-C89836 ASTM B927-C27451 ASTM B16-C36000	ASME B31.3, MSS SP-110	1/4" thru 2"	NPT, Solder	600 psig	250 psig
82	82-100 82-140 82-200 82-400	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 4"	NPT, Solder	600 psig	425 psig
82-LF	82LF-100 82LF-140 82LF-200 82LF-240	ASTM B584-C89836 ASTM B927-C27451 ASTM B16-C36000	ASME B31.3, MSS SP-110	1/4" thru 4"	NPT, Solder	600 psig	250 psig
95	95A 95-100 95-200	ASTM B584-C84400 ASTM B283-C37700 ASTM B62-C83600 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/2" thru 1"	NPT, Solder	600 psig	425 psig
95	95ALF	ASTM B584-C89836 ASTM B927-C27451 ASTM B16-C36000	ASME B31.3, MSS SP-110	1/2" thru 1"	NPT, Solder	600 psig	250 psig
71-AR	71-AR	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	3/4" thru 3"	NPT, Solder	600 psig	425 psig

SCOPE OF CRN REGISTRATION

Valve Series	Valve Models	Material Specification	Design Code	Size Range	End Connections	Pressure Rating CRN MAWP at -20°F/100°F (Note 6)	Pressure Rating CRN MAWP at -20°F/406°F (Note 6)
77-AR	77-AR	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	600 psig	425 psig
32-100	32-100	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	400 psig	285 psig
32-200	32-200						
50GB	50GB GB50 GB50-A	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/2" thru 2"	NPT, Solder	250 psig	250 psig
70-600	70-600 70-640	ASTM B584-C84400 ASTM B283-C37700 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	400 psig	285 psig
70-900	70-900						
7B	7B-100 7B-300 7B-800	ASTM B584-C84400 ASTM B16-C36000	ASME B31.3 MSS SP-110	1/4" thru 2"	NPT, Solder	400 psig	285 psig
79	79 79-700	ASTM B283-C37700 ASTM B16-C36000 ASTM B75-C12200	ASME B31.3 ASME B31.5 MSS SP-110	3/8" thru 1-5/8"	Tube	500 psig (Note 10)	N/A
79	79 79-700	ASTM B283-C37700 ASTM B16-C36000 ASTM B75-C12200	ASME B31.3 ASME B31.5 MSS SP-110	2-1/8"	Tube	445 psig (Note 10)	N/A
79	79 79-700	ASTM B283-C37700 ASTM B16-C36000 ASTM B75-C12200	ASME B31.3 ASME B31.5 MSS SP-110	2-5/8"	Tube	415 psig (Note 10)	N/A
79	79 79-700	ASTM B283-C37700 ASTM B16-C36000 ASTM B75-C12200	ASME B31.3 ASME B31.5 MSS SP-110	3-1/8"	Tube	400 psig (Note 10)	N/A

SCOPE OF CRN REGISTRATION

Note 1: The technical documentation for the valves listed under this CRN can be found in **CRN Design Report R-2224**

Note 2: P-T Ratings = Pressure-Temperature Ratings, MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, CWP = Cold Working Pressure = Pressure rating at 100°F

Note 3: A cross reference between the listed ASTM grades and the material description is as follows:

ASTM Name	Material Description
ASTM A351-CF8M	Stainless Steel
ASTM A351-CN7M	Alloy 20
ASTM A479-316/316L	Stainless Steel
ASTM A494-CW-12MW	Hastelloy C
ASTM A351-CN3MN	AL-6XN
ASTM A351-CK3MCuN	254 SMO
ASTM A494-M35-1	Monel
ASTM A216-WCB	Carbon Steel
ASTM A352-LCC	Carbon Steel
ASTM A351-CF3M	Stainless Steel
ASTM A351-CG8M	Stainless Steel
ASTM A995-CD3MN	Duplex 2205
ASTM A995 CD3MWCuN	Super Duplex 2507

ASTM Name	Material Description
ASTM A217-C12	Alloy Steel
ASTM A494 N-12MV	Hastelloy B
ASTM A105	Carbon Steel
ASTM A995-4A	Duplex Stainless Steel
ASTM A995-6A	Super Duplex Stainless Steel
ASTM A108-12L14 (G12144)	Carbon Steel
ASTM A494-CZ100	Nickel
ASTM B584-C84400	Copper Alloy
ASTM B283-C37700	Copper
ASTM B62-C83600	Bronze
ASTM B16-C36000	Brass
ASTM B584-C89836	Copper Alloy
ASTM B927-C27451	Brass

Note 4: Pressure-temperature ratings are in accordance with applicable ASME B16.34 Table 2 ratings.

Note 5: For valves with a Design Code of ASME B31.3 and a CWP rating at 100°F consult product literature for valve pressure ratings at temperatures above 100°F.

Note 6: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP and MAWT may be limited by the seat, seal, closure ball or other considerations. Please consult manufacturer's literature.

Note 7: For valves meeting the requirements of ASME B16.34 in accordance with ASME B16.34 para. 2.3.2 the pressure rating for service at any temperature below 100°F shall be no greater than the rating shown in ASME B16.34 Tables 2-1.1C through 2-3.19C for 100°F. For low temperature operation please reference ASME B31.1 and ASME B16.34 Non-mandatory Appendix D. Products that are to operate at low temperatures shall conform to the rules of the applicable codes under which they are used.

Note 8: For valves meeting the requirements of ASME B16.34 other ASME B16.34 materials may be supplied. When this is the case the pressure-temperature ratings of the valves are to be in accordance with the applicable ASME B16.34 Table 2 ratings.

Note 9: Pressure-Temperature Ratings of butt-welded end valves may be limited by the butt-welded end pressure rating. Butt-welded end pressure ratings shall be calculated in accordance with the rules of the applicable codes under which they are used.

Note 10: Valves only to be used with ASME B31.5 Group 2 fluids. Excluded refrigerants falling in Group 1 include; R-290, R-600, R-600A, R-717 and R-1270. MDMT suitable down to -325°F per ASME B31.3.

Note 11: See attached Worldwide Location Appendix for a list of manufacturing locations applicable to this CRN.

WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 1

LOCATIONS & CERTIFYING AUTHORITIES

(rev. November 19, 2024)

Aalberts Integrated Piping Systems Americas, Inc.
10715 Sikes Place, Suite 200
Charlotte, NC, 28277
ISO 9001:2015 Certified by IAPMO R&T

Aalberts Integrated Piping Systems Americas, Inc.
1418 S. Pearl Street
Pageland, SC 29728
USA
ISO 9001:2015 Certified by IAPMO R&T

Aalberts Integrated Piping Systems Americas, Inc.
1509 South Van Lingle
Mungo Blvd
Pageland, SC 29728
ISO 9001:2015 Certified by IAPMO R&T

Aalberts Integrated Piping Systems Americas, Inc.
125 Highway 501 East
Conway, SC 29526
ISO 9001:2015 Certified by IAPMO R&T

THIS IS PART OF CRN

0C10908.5R14

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety
Program