

October 15, 2019

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

The design submission, tracking number 2019-05629, originally received on August 13, 2019 was surveyed and accepted for registration as follows:

CRN :0G20110.2Accepted on: October 15, 2019Reg Type:NEW DESIGNExpiry Date: October 15, 2029Drawing No. : SCOPE OF CRN REGISTRATION DATED 13-OCT-19Fitting type:SAFETY RELIEF VALVESDesign registered in the name of : ARI-ARMATUREN USA LPControl of the name of

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

TSSA Service Request No.: 2659502

The scope of this registration is for 1/2" thru 10" Category G certified capacity-rated safety relief valves. Additional details are provided in the scope of registration including the models, catalog figure numbers, sizes, end connections, materials, and class ratings.

This design has been reviewed and accepted based on the understanding that SA-352-LCC and SA-494-M-35-1 material may be utilized as per Code Case 1750-25. These materials shall not be welded, except as otherwise permitted by this Code Case.

Safety relief valves made from SA-494-M-35-1 and SA-494-CW-12MW material shall not have flanged ends.

Safety relief valves made form SA-494-CW-12MW material shall not be welded or brazed as per Section II, Part D, note W1. Therefore only threaded ends are permitted for this material.

This registration includes the following National Board certificates: 73000, 73011, 73044, 73055, 73145, 73156, 73167, 73178, 73202, 73213, 73224, and 73235.

As indicated on the AB-41 Statutory Declaration form and submitted documentation the code of construction is ASME Section VIII, Division 1.

Alberta Municipal Affairs

STATUTORY DECLARATION Registration of Fittings

the pressur

AB-41 2016-01

		regionation of Fininge	In this space, show facsimile of
			manufacturer's logo or trademark as it will appear on
I, KE	EFE FRENTZ	, QUALITY MANAGER	the fitting.
	(name of applicant)	(position title) (must be in a position of authority)	
of A	RI-ARMATUREN USA, LP		
1	```	ne of manufacturer)	
locate	d at 125 MAGELLAN CIRCLE, V	plant address)	
		ed hereunder, which are subject to the Safety	Codes Act
	comply with the requirements of	ASME SECTION VIII DIV.1 () which s	specifies the dimensions,
	materials of construction press	ure/temperature ratings and identification mar	king of the fittings, or
	-	s of a recognized North American standard a	
		s of a recognized North American standard a	
	to comply with		as supported by the
	attached		
		of construction or other applicable document)	eventure retings and the basis
		ions, materials of construction, pressure/temp	erature ratings and the basis
	for such ratings, and the marking	g of the fittings for identification.	
l furth	er declare that the manufacture o	f these fittings is controlled by a quality contro	l program which has been
verifie	ed by the following authority, ISO	9001:2015 TUV as being suitab	ble for the manufacture of these
fitting	s to the stated standard. The fittir	ngs covered by this declaration, for which I see	ek registration, are
G -	CERTIFIED CAPACITY RATED	PSV	
		(brief description of fittings)	
In sup	oport of this application, the follow	ing information, calculations and/or test data	are attached:
SC	OPE OF CRN, REPORTS, CATA	LOGS, NATIONAL BOARD LISTING	
			1
DECL	ARED before me at Webster	in the <u>State</u> of	Iexas
this _	day of Apr	ril, <u>2019</u> Month), (Year)	(province or state) TEODORO SOSA III
(print	(a Commissioner of Oaths or Notan	y Public)	Notary ID #131289924 My Commission Expires September 21, 2021
(sign)	1115		e of applicant)
For A	BSA Office Use Only:		
NOT	ES: 1) Code edition	is 2017. @ Scope is date	d 13-02E-19.
To th Stand	dard B51, Clause 4.2, and is acce	f, the application meets the requirements of the pted for registration in Category	e Safety Codes Act and CSA
Regis	stration Number: 0G201	10.2 Mert hu	doll/
Date	Registered: OCT 1 5	2019 Expiry Date:	of the Administrator/SCO) $O_{c} \notin 15 2029$
	ormation you provide is necessary only for the re Equipment Discipline.	he administration of the programs as required by the Alberta	Safety Codes Act and Regulations in the

"See Acceptance Letter for the comments and/or conditions of registration"

ARI-ARMATURE USA, LP

125 MAGELLAN CIRCLE WEBSTER, TX 77598, USA



SCOPE OF CRN REGISTRATION

	Product		Design	Code	Size Range	End	Standard Body and	Nominal Pressures
	Description	Models	Code	Stamp		Connection	Bonnet Material (Note 1)	(Note 1,2,3,4)
	Full-Nozzle	R, RB, RO, RBO,	ASME Section	ASME UV	NPS 1" thru	ASME B16.5	Carbon Steel	ANSI 150, 300, 600
	Safety Relief	(Fig. 971, 973, 974)	VIII Division 1		NPS 10"	Flanged	ASME SA216-WCC	900, 1500, 2500
	Valves							Limited by the Set
				-				Pressure.
-19	Full-Nozzle	RL14, RL014, RL40,	ASME Section	ASME UV	NPS 1/2" thru	Female NPT,	Carbon Steel	ANSI 150, 300, 600
	Safety Relief	RLO40, RL41, RLO41	VIII Division 1		NPS 2"	Male NPT,	ASME SA216-WCC	900, 1500, 2500
	Valves	(Fig. 966, 968, 969)				Socket Weld,		Limited by the Set
						Buttweld,		Pressure.
						ASME B16.5		
						Flanged		

Note 1: The following other ASME Section II materials may be supplied. In all cases the maximum pressure-temperature ratings are to be limited to the National Board Listing set pressures.

- ASME SA217-WC6

- ASME SA351-CF8M
- ASME SA352-LCC
- ASME SA494 M-35-1

- ASME SA217-C12
- ASME SA351-CN7M
- ASME SA494 CW-12MW
- ASME SA995-4A CD3MN

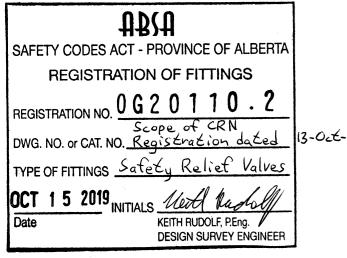
Note 2: In all cases the pressure-temperature ratings of the valves may be limited by the seat and seal materials. Consult ARI-Armature.

Note 3: For temperatures below -20F products shall conform to the rules of the applicable codes under which they are used.

Note 4: For material ASME SA494 CW-12MW no welding or brazing is permitted per ASME Section II Part D Note W1.

Note 5: Materials ASME SA494 CW-12MW and SA494 M-35-1 are not listed in ASME B16.5 therefore valves shall not be supplied with flanges ends when these materials are used.

Note 6: See attached copy of National Board Listing.



"See Acceptance Letter for the comments and/or conditions of registration" 13-Oct-19

PAGE 1 OF 1

location: 125 Magellan Circle, Webster, TX 77598 United States

ARI - Armaturen USA, LP (TAR)

location: 125 Magellan Circle, Webster, TX 77598 United States

Certification Number: 73000 Design Series or catalog number Reyco R, RB & RO (Fig. 971, 973, 974)

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on March 19, 1997 Method of Establishing Relieving Capacity: Flow Capacity, K Certified Value: .86 Unitless Test Medium: Steam & Air/Gas Certified Medium: Steam & Air/Gas Special Service: None Set Pressure Definition: Pop Blowdown: Adjustable by Single Ring

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section	
1 - 1.5 NPS	2 - 3 NPS	0.122 sq in	[D] 0.394 in	0.12 in	15 - 2900 psi	Steam	VIII Div. 1	
					15 - 6250 psi	Air	VIII Div. 1	
		0.217 sq in	[E] 0.526 in	0.16 in	15 - 2900 psi	Steam	VIII Div. 1	
					15 - 6250 psi	Air	VIII Div. 1	
1.5 NPS	2 - 3 NPS	0.34 sq in	[F] 0.658 in	0.2 in	15 - 2900 psi	Steam	VIII Div. 1	
					15 - 6250 psi	Air	VIII Div. 1	
1.5 - 2 NPS	IPS 2.5, 3 NPS 0.558 sq in [G] 0.843 in 0.26 in	0.26 in	15 - 2900 psi	Steam	VIII Div. 1			
		-			15 - 4905 psi	Air	VIII Div. 1	
	3 NPS	0.869 sq in	[H] 1.052 in	0.32 in	15 - 2900 psi	Steam	VIII Div. 1	
					15 - 3300 psi	Air	VIII Div. 1	
2 - 3 NPS	3. 4 NPS	3, 4 NPS 1.427 sq in [J] 1.348 in	[J] 1.348 in	0.41 in	15 - 2900 psi	Steam	VIII Div. 1	
		•			15 - 3300 psi	Air	VIII Div. 1	
3 NPS	4, 6 NPS	2.036 sq in	[K] 1.61 in	0.49 in	15 - 2900 psi	Steam	VIII Div. 1	
		•			15 - 3300 psi	Air	VIII Div. 1	
3 - 4 NPS	4, 6 NPS	3.16 sq in	[L] 2.006 in	0.61 in	15 - 2900 psi	Air	VIII Div. 1	
		•				Steam	VIII Div. 1	
4 NPS	6 NPS	4 NPS 6 NPS	3.987 sq in	[M] 2.253 in	0.69 in	15 - 1600 psi	Air	VIII Div. 1
		•				Steam	VIII Div. 1	
			4.807 sq in	[N] 2.474 in	0.75 in	15 - 1600 psi	Air	VIII Div. 1
		•			•	Steam	VIII Div. 1	
		7.07 sq in	[P] 3 in	0.92 in	15 - 1600 psi	Air	VIII Div. 1	
		•				Steam	VIII Div. 1	
6 NPS	8 NPS	12.24 sq in	[Q] 3.948 in	1.2 in	15 - 925 psi	Air	VIII Div. 1	
		•				Steam	VIII Div. 1	
	8, 10 NPS	17.72 sq in	[R] 4.75 in	1.45 in	15 - 350 psi	Air	VIII Div. 1	
	·	•			-	Steam	VIII Div. 1	
8 NPS	10 NPS	29.75 sq in	[T] 6.155 in	1.84 in	15 - 325 psi	Air	VIII Div. 1	
					•	Steam	VIII Div. 1	

location: 125 Magellan Circle, Webster, TX 77598 United States

Certification Design Series 73011 Reyco R, RB, RO, RBO (Fig. 971, 973, 974) (liquid) Number: or catalog number Type Classification: Safety Relief Valve Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on September 27, 2001 Method of Establishing Relieving Capacity: Flow Capacity, K Certified Value: .724 Unitless Test Medium: Water 0620110.2 Certified Medium: Liquid Special Service: None Set Pressure Definition: First Steady Stream Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
1 - 1.5 NPS	2, 2.5, 3 NPS	0.122 sq in	[D] 0.394 in	0.12 in	15 - 6250 psi	Water	VIII Div. 1
		0.217 sq in	[E] 0.526 in	0.16 in	15 - 6250 psi	Water	VIII Div. 1
1.5 NPS	2 - 3 NPS	0.34 sq in	[F] 0.658 in	0.2 in	15 - 6250 psi	Water	VIII Div. 1
1.5 - 2 NPS	2.5, 3 NPS	0.558 sq in	[G] 0.843 in	0.26 in	15 - 4905 psi	Water	VIII Div. 1
	3 NPS	0.869 sq in	[H] 1.052 in	0.32 in	15 - 3300 psi	Water	VIII Div. 1
2 - 3 NPS	3, 4 NPS	1.427 sq in	[J] 1.348 in	0.41 in	15 - 3300 psi	Water	VIII Div. 1
3 NPS	4, 6 NPS	2.036 sq in	[K] 1.61 in	0.49 in	15 - 3300 psi	Water	VIII Div. 1
3 - 4 NPS	4, 6 NPS	3.16 sq in	[L] 2.006 in	0.61 in	15 - 2900 psi	Water	VIII Div. 1
4 NPS	6 NPS	3.987 sq in	[M] 2.253 in	0.69 in	15 - 1600 psi	Water	VIII Div. 1
		4.807 sq in	[N] 2.474 in	0.75 in	15 - 1600 psi	Water	VIII Div. 1
********		7.07 sq in	[P] 3 in	0.92 in	15 - 1600 psi	Water	VIII Div. 1
6 NPS	8 NPS	12.24 sq in	[Q] 3.948 in	1.2 in	15 - 925 psi	Water	VIII Div. 1
	8, 10 NPS	17.72 sq in	[R] 4.75 in	1.45 in	15 - 350 psi	Water	VIII Div. 1
8 NPS	10 NPS	29.75 sq in	[T] 6.155 in	1.84 in	15 - 325 psi	Water	VIII Div. 1

73044 or catalog number RL-14 & RLO-14 Number:

Type Classification: Safety Relief Valve Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on June 08, 2010 Method of Establishing Relieving Capacity: Flow Capacity, Slope Certified Value: 1.23 SCFM/PSIA Certified Value (alternate medium): 3.46 PPH/PSIA Test Medium: Steam & Air/Gas Certified Medium: Steam & Air/Gas Special Service: None Set Pressure Definition: Pop Blowdown: Fixed Scope of Nominal Size and Set Pressure Ranges:

Orifice Media Code Section Inlet Size **Outlet Size** Flow Area [designator] diameter Lift Set Pressure Range Steam VIII Div. 1 0.5 - 1 NPS 1 NPS 0.078 sq in 0.315 in 0.078 in 15 - 2900 psi Air VIII Div. 1 15 - 5000 psi

Iocation: 125 Magellan Circle, Webster, TX 77598 United States

 Certification Number:
 73055
 Design Series or catalog number
 RL-14 & RLO-14 (Liquids)

 Type Classification:
 Safety Relief Valve

 Capacity Tests:
 Sec. VIII Div. 1 at National Board T L (Worthington) on June 04, 2010

 Method of Establishing Relieving Capacity:
 Flow Capacity, Flow Factor

 Certified Value:
 1.88 GPM/SQ.RT. PSID

 Test Medium:
 Liquid

 Special Service:
 None

 Set Pressure Definition:
 First Steady Stream

 Blowdown:
 Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.5 - 1 NPS	1 NPS	0.078 sq in	0.315 in	0.078 in	15 - 5000 psi	Water	VIII Div. 1
Certification Number: 73145	Design Series or catalog number	RL40, RLO40, RL41,	RLO41				
	Type Classification:	Safety Relief Valve					

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on June 10, 2010 Method of Establishing Relieving Capacity: Flow Capacity, Slope Certified Value: 1.86 SCFM/PSIA Certified Value (alternate medium): 5.23 PPH/PSIA Test Medium: Steam & Air/Gas Certified Medium: Steam & Air/Gas Special Service: None Set Pressure Definition: Pop Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.75 - 1 NPS	1-2 NPS	0.152 sq in	0.44 in	0.365 in	15 - 2900 psi	Steam	VIII Div. 1
					15 - 5000 psi	Air	VIII Div. 1
Certification = 0.4 c	o Desian Series						

Number: 73156 Design Series or catalog number RL40, RL040, RL41, RL041 (Liquids)

Type Classification: Safety Relief Valve Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on July 26, 2010 Method of Establishing Relieving Capacity: Flow Capacity, Flow Factor Certified Value: 2.684 GPM/SQ.RT. PSID Test Medium: Water Certified Medium: Liquid Special Service: None Set Pressure Definition: First Steady Stream Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

			Orifice				
Inlet Size	Outlet Size	Flow Area	[designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.75 - 1 NPS	1-2 NPS	0.152 sq in	0.44 in		15 - 5000 psi	Water	VIII Div. 1

VIII Div. 1

Air

15 - 5000 psi

ARI - Armaturen USA, LP (TAR)

location: 125 Magellan Circle, Webster, TX 77598 United States

Certification 7316	7 Design Series or catalog number	RL4	0, RL040 (0.847 ir	n. orif.)				
	Type Classification:	Safe	ty Relief Valve					
	••		•	onal Board T L (Wo	thington) on No	ovember 03, 2010		
Method of Estab	lishing Relieving Capacity:			,	0 /			
	Certified Value:							
Certified	Value (alternate medium):							
	Test Medium:							
	Certified Medium:	Stea	am & Air/Gas		0 G	20110	2	
	Special Service:	Non	e		4 U		• •	
	Set Pressure Definition:							
	Blowdown:	-						
Scope of Nominal Siz	e and Set Pressure Ranges:							
Inlet Size	Outlet Size		Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
1.5 - 2 NPS	2 NPS		0.563 sq in	0.847 in		15 - 1500 psi	Air	VIII Div. 1
							Steam	VIII Div. 1
Certification 7017	o Design Series							
Number: 7317	8 or catalog number	RL4	0, RL040 (0.847 ii	n. orif.)(liquid)				
	Type Classification:	Safe	ety Relief Valve					
	••		-	onal Board T L (Wo	rthington) on N	ovember 03, 2010		
Method of Estab	lishing Relieving Capacity:				0 /			
	• • • •		5 GPM/SQ.RT. PS					
	Test Medium:	Wat	er					
	Certified Medium:	Liau	uid					
	Special Service:	Nor	e					
	Set Pressure Definition:							
	Blowdown:							
Scope of Nominal Siz	e and Set Pressure Ranges:							
			-	Orifice		0 (D) D	M	Orde Ordfan
Inlet Size	Outlet Size	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Flow Area	[designator] diameter	Lift	Set Pressure Range	Media	Code Section
1.5 - 2 NPS	2 NPS		0.563 sq in	0.847 in		15 - 1500 psi	Water	VIII Div. 1
Certification 7320	2 Design Series or catalog number	RL1	4 & RLO14 (0.394	4 in.)				
	Type Classification:	Saf	ety Relief Valve					
			•	onal Board T L (Wo	rthington) on S	entember 30, 2014		
Mothod of Estat	blishing Relieving Capacity:					Cp (Chiber 00, 2014		
			37 SCFM/PSIA					
Cortifier	I Value (alternate medium):							
Octaneo			am & Air/Gas					
	Certified Medium:							
	Set Pressure Definition:							
	Blowdown:	•						
Scope of Nominal Siz	e and Set Pressure Ranges:							
Inlet Size	Outlet Size		Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.5 - 1 NPS	1 NPS		0.122 sq in	0.394 in	0.0985 in	15 - 2900 psi	Steam	VIII Div. 1
	·····					15 - 5000 psi	Air	VIII Div 1

Iocation: 125 Magellan Circle, Webster, TX 77598 United States

Certification 73213 Design Series RL14 & RL014 (0.394 in.) (Liquid)

Type Classification: Relief Valve Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on September 30, 2014 Method of Establishing Relieving Capacity: Flow Capacity, Flow Factor Certified Value: 3.021 GPM/SQ.RT. PSID Test Medium: Water Certified Medium: Liquid Set Pressure Definition: First Steady Stream Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.5 - 1 NPS	1 NPS	0.122 sq in	0.394 in	0.0985 in	15 - 5000 psi	Water	VIII Div. 1
Certification Number: 73224	Design Series or catalog number	RL40, RLO40, RL41,	RLO41 (0.547 in o	rifice), Design	Rev. A		
	Type Classification:	Safety Relief Valve					
	Capacity Tests:	Sec. VIII Div. 1 at Nat	ional Board T L (Wo	orthington) on N	/larch 04, 2014		
Method of Establis	shing Relieving Capacity:	Flow Capacity, Slope)				
	Certified Value:	3.76 SCFM/PSIA					
Certified V	alue (alternate medium):	10.53 PPH/PSIA					
	Test Medium:	Steam & Air/Gas					
	Certified Medium:	Steam & Air/Gas					
	Set Pressure Definition:	Рор					
	Blowdown:	Fixed					
Scope of Nominal Size	and Set Pressure Ranges:						
Inlet Size	Outlet Size	Flow Area	Orifice [designator] diameter	Lift	Set Pressure Range	Media	Code Section
1 - 1.5 NPS	1-2 NPS	0.235 sq in	0.547 in	0.137 in	15 - 2900 psi	Steam	VIII Div. 1
					15 - 3000 psi	Air	VIII Div. 1
Certification 73235 Number: 73235	Design Series or catalog number	RL40, RLO40, RL41	RLO41 (0.547 in. d	orifice) (Liquid), Design Rev. A		
	Type Classification:	Relief Valve Sec. VIII Div. 1 at Nat	ional Poord TL (Ak	rthington) on I	Marah 04, 2014		

Capacity Tests: Sec. VIII Div. 1 at National Board T L (Worthington) on March 04, 2014 Method of Establishing Relieving Capacity: Flow Capacity, Slope Certified Value: 5.635 GPM/SQ.RT. PSID Test Medium: Liquid Certified Medium: Liquid Set Pressure Definition: First Steady Stream Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

			Orifice				
Inlet Size	Outlet Size	Flow Area	[designator] diameter	Lift	Set Pressure Range	Media	Code Section
1 - 1.5 NPS	1-2 NPS	0.235 sq in	0.547 in	0.137 in	15 - 3000 psi	Water	VIII Div. 1

CERTIFICATE



TUV Rheinland of North America, Inc. 295 Foster Street, Suite 100, Littleton, MA 01460

0620110.2

Hereby certifies that



ARI-Armaturen USA, LP

125 Magellan Circle Webster, TX 77598

has established and maintains a quality management system for the

Design, Manufacture and Distribution of Safety Relief Valves, Control Valves, Isolation Valves and Steam Systems

An audit was performed and documented in Report No 3762. Proof has been furnished that the requirements according to

ISO 9001:2015

are fulfilled.

Further clarification regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by contacting TRNA.

Certificate Registration No.

74 300 3762

Certificate Issue Date January 15, 2017



Certificate Expiration Date January 14, 2020

Reissue Date: 2/25/2018

Certification of Management Systems



CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

0G20110.2

COMPANY:

ARI-Armaturen USA, LP 125 Magellan Circle Webster, Texas 77598

SCOPE:

Manufacture of pressure vessel pressure relief valves at the above location only

AUTHORIZED: EXPIRES: CERTIFICATE NUMBER: August 8, 2018 December 16, 2021

39,160

Board Chair, Conformity Assessment

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Managing Director, Conformity Assessment

