



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

www.tssa.org

February 8, 2023

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8229710
Your Reference No.: R-1748- CRN 0G8455.5R1 renewal
Registered to: ARI-ARMATUREN ALBERT RICHTER GMBH & CO KG
ARI- ARMATUREN USA, LP

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 : 0G8455.5R2
Main Design No.: Scope of CRN registration, Manufacturer site list
Expiry Date: Apr 22, 2033

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

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,

Ruiming You P,ENG
Engineer, BPV
Tel. : +1 416-734-3428
Email : ryou@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



STATUTORY DECLARATION Registration of Fittings

I, KEEFE FRENTZ, QUALITY MANAGER
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of ARI-ARMATUREN
(Name of Manufacturer)

Located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX
(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 SECTION VIII-1
(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 ASME UV which has been verified by the following authority, ASME.

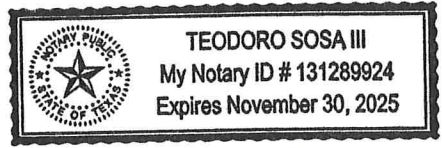
The items covered by this declaration, for which I seek registration, are category G - SAFETY RELIEF VALVES type fittings. In support of this application, the following information and/or test data are attached as follows:
SCOPE OF CRN REGISTRATION, CATALOG, REPORT
(drawings, calculations, test reports, etc.)

Declared before me at Webster, Texas in the State of Texas
 the 22 day of July AD 20 22.

Commissioner for Oaths:

Teodoro Sosa III
(Printed name)

[Signature]
(Signature)



[Signature]
(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 _____.

CRN: _____

Registered by: _____

Dated: _____

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0G8455.5R2

Signed: [Signature]

Date: February 8, 2023.

NOTE: This registration expires on: April 22, 2023

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



THIS IS PART OF CRN
 0G8455.5R2
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

SCOPE OF CRN REGISTRATION

Product Description	Figure	Nominal Pressure	Material	Form	Process Connection	Pressure Range	NPS Min	NPS Max.	Certified Medium	Certificate Number NB	Drawing No. / Design Report
ARI-SAFE-SN ANSI Safety Valve	32.901	ANSI 150	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	Drawing No. s050010007 / Design Report R-1748 Rev. 0
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	32.902	ANSI 150	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	32.911	ANSI 150	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	32.912	ANSI 150	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	35.901	ANSI 300	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	Drawing No. s050010006 / Design Report R-1748 Rev. 0
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	35.902	ANSI 300	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	35.911	ANSI 300	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	35.912	ANSI 300	ASME SA216-WCB	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	52.901	ANSI 150	ASME SA351-CF8M	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	Drawing No. s050010018 / Design Report R-1748 Rev. 0
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	52.911	ANSI 150	ASME SA351-CF8M	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	

ARI-ARMATUREN USA, LP

125 MAGELLAN CIRCLE
 WEBSTER, TX
 77598, USA



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20-Oct-22

PAGE 2 OF 2

SCOPE OF CRN REGISTRATION CONTINUED

Product Description	Figure	Nominal Pressure	Material	Form	Process Connection	Pressure Range	NPS Min	NPS Max.	Certified Medium	Certificate Number NB	Drawing No.
ARI-SAFE-SN ANSI Safety Valve	55.901	ANSI 300	ASME SA351-CF8M	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	Drawing No. s050010019 / Design Report R-1748 Rev. 0
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	
ARI-SAFE-SN ANSI Safety Valve	55.911	ANSI 300	ASME SA351-CF8M	Angle Through	ASME B16.5 Flanged	>=15 psig	1"	1"	Water	08020	
						>=15 psig	1.5"	6"	Water	08019	
						15 psig - 30 psig	1"	6"	Steam & Air/Gas	08031	
						>=30 psig	1"	6"	Steam & Air/Gas	08008	

Note 1: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 2: Valves shall be marked with the ASME Certification mark and UV Designator along with the Canadian Registration Number (CRN).

Note 3: See attached Worldwide Locations Appendix.

Note 4: See attached copy of National Board Listings applicable to this Canadian Registration Number (CRN).



WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 1

**ARI-ARMATUREN LOCATIONS
& CERTIFYING AUTHORITIES**

(rev. July 20, 2022)

ARI-Armaturen Albert Richter GmbH & Co. KG

Mergelheide 56-60
33758 Schlob Holte-Stukenbrock
Germany

ASME UV expires 12/16/2024

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0G8455.5R2
Technical Standards and Safety Authority
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ARI-Armaturen USA, LP

125 Megellan Circle
Webster, TX
77598, USA

ASME UV expires 9/20/2024

ARI - Armaturen USA, LP (TAR)

Webster, TX 77598 United States

This Company Manufactures or Assembles:

Design Name: 901/902/911/912	NBCert # 08008
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Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	11/21/2023

Design Type

[Safety Relief Valve] 901/902/911/912
 Capacity Tests: Sec. UV at National Board Testing Lab on November 9, 2001
 Method of Establishing Relieving Capacity: Flow Capacity, K
 Certified Value: 0.817 Unitless
 Media - Test: Air/Gas; Certified: Air, Gas, Steam
 Set Pressure Definition: Initial Audible Discharge
 Blowdown Characteristics: Fixed
 Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS	1.5, 2.0 NPS	0.617 in ²	0.886 in	0.22 in	30-493 psi	Air	UV
1 NPS	1.5, 2.0 NPS	0.617 in ²	0.886 in	0.22 in	30-493 psi	Steam	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Air	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Steam	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Air	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Steam	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	30-493 psi	Air	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	30-493 psi	Steam	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	30-493 psi	Air	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	30-493 psi	Steam	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	30-406 psi	Air	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	30-406 psi	Steam	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	30-276 psi	Air	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	30-276 psi	Steam	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	30-392 psi	Air	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	30-392 psi	Steam	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	30-305 psi	Air	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	30-305 psi	Steam	UV

Design Name: 901/902/911/912 (1" liquid) NBCert # 08020

Manufacturer/Assembler	Designators	Expiration Date
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Manufacturer UV 11/21/2023

Design Type

[Relief Valve] 901/902/911/912 (1" liquid)
 Capacity Tests: Sec. UV at National Board Testing Lab on August 24, 2001
 Method of Establishing Relieving Capacity: Flow Capacity, Flow Factor
 Certified Value: 14.410 GPM/SQ.RT. PSID
 Media - Test: Water/Liquid; Certified: Liquid
 Set Pressure Definition: Opening Pressure
 Blowdown Characteristics: Fixed
 Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS	1.5, 2.0 NPS	0.617 in ²	0.886 in	0.22 in	15-493 psi	Water	UV

Design Name: 901/902/911/912 (Liquids) NBCert # 08019

Manufacturer/Assembler	Designators	Expiration Date
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Manufacturer UV 03/29/2024

Design Type

[Relief Valve] 901/902/911/912 (Liquids)
 Capacity Tests: Sec. UV at National Board Testing Lab on October 15, 2001
 Method of Establishing Relieving Capacity: Flow Capacity, K
 Certified Value: 0.545 Unitless
 Media - Test: Water/Liquid; Certified: Liquid
 Set Pressure Definition: Opening Pressure
 Blowdown Characteristics: Fixed
 Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1.25 NPS	2 NPS	1.024 in ²	1.142 in	0.29 in	15-493 psi	Water	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	15-493 psi	Water	UV
1.5 NPS	2.5, 3 NPS	1.578 in ²	1.417 in	0.37 in	15-493 psi	Water	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	15-493 psi	Water	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	15-406 psi	Water	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	15-276 psi	Water	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	15-392 psi	Water	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	15-305 psi	Water	UV

Design Name: 901/902/911/912 {15-30} NBCert # 08031

Manufacturer/Assembler	Designators	Expiration Date
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Manufacturer UV 11/21/2023

Design Type

[Safety Relief Valve] 901/902/911/912 {15-30}
 Capacity Tests: Sec. UV at National Board Testing Lab on May 9, 2007
 Method of Establishing Relieving Capacity: Flow Capacity, K
 Certified Value: 0.769 Unitless
 Media - Test: Air/Gas, Steam; Certified: Air, Gas, Steam
 Set Pressure Definition: Initial Audible Discharge
 Blowdown Characteristics: Fixed
 Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS	1.5, 2.0 NPS	0.394 in ²	0.709 in	0.205 in	15-30 psi	Air	UV
1 NPS	1.5, 2.0 NPS	0.394 in ²	0.709 in	0.205 in	15-30 psi	Steam	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Air	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Steam	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Air	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Steam	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	15-30 psi	Air	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	15-30 psi	Steam	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	15-30 psi	Air	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	15-30 psi	Steam	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	15-30 psi	Air	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	15-30 psi	Steam	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	15-30 psi	Air	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	15-30 psi	Steam	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	15-30 psi	Air	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	15-30 psi	Steam	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	15-30 psi	Air	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	15-30 psi	Steam	UV

Design Name: Reyco R, RB & RO (Fig. 971, 973, 974) NBCert # 73000

Manufacturer/Assembler**Designators****Expiration Date**

Manufacturer

UV

01/19/2027

Design Type

[Safety Relief Valve] Reyco R, RB & RO (Fig. 971, 973, 974)
 Capacity Tests: Sec. UV at National Board Testing Lab on March 19, 1997
 Method of Establishing Relieving Capacity: Flow Capacity, K
 Certified Value: 0.860 Unitless
 Media - Test: Air/Gas, Steam; Certified: Air, Gas, Steam
 Set Pressure Definition: Pop
 Blowdown Characteristics: Adjustable (Single Ring)
 Designed by: ARI - Armaturen USA, LP {TAR}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1-1.5 NPS	2 - 3 NPS	0.122 in ²	[D] 0.394 in	0.12 in	15-2900 psi	Steam	UV
1-1.5 NPS	2 - 3 NPS	0.122 in ²	[D] 0.394 in	0.12 in	15-6250 psi	Air	UV
1-1.5 NPS	2 - 3 NPS	0.217 in ²	[E] 0.526 in	0.16 in	15-2900 psi	Steam	UV
1-1.5 NPS	2 - 3 NPS	0.217 in ²	[E] 0.526 in	0.16 in	15-6250 psi	Air	UV

Design Type

[Relief Valve] RL40, RLO40, RL41, RLO41 (0.547 in. orifice) (Liquid), Design Rev. A
 Capacity Tests: Sec. UV at National Board Testing Lab on March 4, 2014
 Method of Establishing Relieving Capacity: Flow Capacity, Flow Factor
 Certified Value: 5.635 GPM/SQ.RT. PSID
 Media - Test: Water/Liquid; Certified: Liquid
 Set Pressure Definition: First Steady Stream
 Blowdown Characteristics: Fixed
 Designed by: ARI - Armaturen USA, LP {TAR}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1-1.5 NPS	1.5, 2 NPS	0.235 in ²	0.547 in	0.137 in	15-3000 psi	Water	UV

Design Name: RL40, RLO40, RL41, RLO41 (0.547 in. orifice), Design Rev. A NBCert # 73224

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	09/29/2026

Design Type

[Safety Relief Valve] RL40, RLO40, RL41, RLO41 (0.547 in. orifice), Design Rev. A
 Capacity Tests: Sec. UV at National Board Testing Lab on March 4, 2014
 Method of Establishing Relieving Capacity: Flow Capacity, Slope
 Certified Value: 3.760 SCFM/PSIA; (alternate medium): 10.560 PPH/PSIA
 Media - Test: Air/Gas, Steam; Certified: Air, Gas, Steam
 Set Pressure Definition: Pop
 Blowdown Characteristics: Fixed
 Designed by: ARI - Armaturen USA, LP {TAR}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1-1.5 NPS	1.5, 2 NPS	0.235 in ²	0.547 in	0.137 in	15-2900 psi	Steam	UV
1-1.5 NPS	1.5, 2 NPS	0.235 in ²	0.547 in	0.137 in	15-3000 psi	Air	UV

ARI-Armaturen Albert Richter GmbH & Co. KG (ARI)

Nameplate Abbreviation: ARI

Schloss Holte-Stukenbrock, 33758Germany

This Company Manufactures or Assembles:

Design Name: 901/902/911/912 NBCert # 08008

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	12/12/2023

Design Type

[Safety Relief Valve] 901/902/911/912
 Capacity Tests: Sec. UV at National Board Testing Lab on November 9, 2001
 Method of Establishing Relieving Capacity: Flow Capacity, K
 Certified Value: 0.817 Unitless
 Media - Test: Air/Gas; Certified: Air, Gas, Steam
 Set Pressure Definition: Initial Audible Discharge
 Blowdown Characteristics: Fixed
 Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS	1.5, 2.0 NPS	0.617 in ²	0.886 in	0.22 in	30-493 psi	Air	UV

1 NPS	1.5, 2.0 NPS	0.617 in ²	0.886 in	0.22 in	30-493 psi	Steam	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Air	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Steam	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Air	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	30-493 psi	Steam	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	30-493 psi	Air	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	30-493 psi	Steam	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	30-493 psi	Air	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	30-493 psi	Steam	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	30-406 psi	Air	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	30-406 psi	Steam	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	30-276 psi	Air	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	30-276 psi	Steam	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	30-392 psi	Air	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	30-392 psi	Steam	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	30-305 psi	Air	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	30-305 psi	Steam	UV

Design Name: 901/902/911/912 (1" liquid) NBCert # 08020

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	11/12/2028

Design Type
 [Relief Valve] 901/902/911/912 (1" liquid)
 Capacity Tests: Sec. UV at National Board Testing Lab on August 24, 2001
 Method of Establishing Relieving Capacity: Flow Capacity, Flow Factor
 Certified Value: 14.410 GPM/SQ.RT. PSID
 Media - Test: Water/Liquid; Certified: Liquid
 Set Pressure Definition: Opening Pressure
 Blowdown Characteristics: Fixed
 Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS	1.5, 2.0 NPS	0.617 in ²	0.886 in	0.22 in	15-493 psi	Water	UV

Design Name: 901/902/911/912 (Liquids) NBCert # 08019

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	12/12/2023

Design Type
 [Relief Valve] 901/902/911/912 (Liquids)
 Capacity Tests: Sec. UV at National Board Testing Lab on October 15, 2001
 Method of Establishing Relieving Capacity: Flow Capacity, K
 Certified Value: 0.545 Unitless
 Media - Test: Water/Liquid; Certified: Liquid
 Set Pressure Definition: Opening Pressure
 Blowdown Characteristics: Fixed
 Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1.25 NPS	2 NPS	1.024 in ²	1.142 in	0.29 in	15-493 psi	Water	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	15-493 psi	Water	UV
1.5 NPS	2.5, 3 NPS	1.578 in ²	1.417 in	0.37 in	15-493 psi	Water	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	15-493 psi	Water	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	15-406 psi	Water	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	15-276 psi	Water	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	15-392 psi	Water	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	15-305 psi	Water	UV

Design Name: 901/902/911/912 {15-30} NBCert # 08031

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	11/29/2023

Design Type

[Safety Relief Valve] 901/902/911/912 {15-30}
Capacity Tests: Sec. UV at National Board Testing Lab on May 9, 2007
Method of Establishing Relieving Capacity: Flow Capacity, K
Certified Value: 0.769 Unitless
Media - Test: Air/Gas, Steam; Certified: Air, Gas, Steam
Set Pressure Definition: Initial Audible Discharge
Blowdown Characteristics: Fixed
Designed by: ARI-Armaturen Albert Richter GmbH & Co. KG {ARI}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS	1.5, 2.0 NPS	0.394 in ²	0.709 in	0.205 in	15-30 psi	Air	UV
1 NPS	1.5, 2.0 NPS	0.394 in ²	0.709 in	0.205 in	15-30 psi	Steam	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Air	UV
1.25 NPS	2.0 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Steam	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Air	UV
1.5 NPS	2, 2.5 NPS	1.024 in ²	1.142 in	0.29 in	15-30 psi	Steam	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	15-30 psi	Air	UV
1.5 NPS	2.5, 3.0 NPS	1.578 in ²	1.417 in	0.37 in	15-30 psi	Steam	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	15-30 psi	Air	UV
2 NPS	3 NPS	2.465 in ²	1.772 in	0.45 in	15-30 psi	Steam	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	15-30 psi	Air	UV
2.5-3 NPS	4 NPS	4.166 in ²	2.303 in	0.61 in	15-30 psi	Steam	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	15-30 psi	Air	UV
4 NPS	6 NPS	9.861 in ²	3.543 in	0.98 in	15-30 psi	Steam	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	15-30 psi	Air	UV
5-6 NPS	8 NPS	13.678 in ²	4.173 in	1.34 in	15-30 psi	Steam	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	15-30 psi	Air	UV
6 NPS	10 NPS	19.022 in ²	4.921 in	1.46 in	15-30 psi	Steam	UV