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www.tssa.org

July 18, 2024

ROUND ENGINEERING INC 10 SEGWUN RD WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 14375138 Your Reference No.: R-1810

Registered to: 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: 0C25363.5

Main Design No.: R-1810 Scope of Registration May 30, 2024

Expiry Date: Jul 18, 2034

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

Registration only covers valves that are in full compliance with ASME B16.34

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,

Shreyas Madhuranath M.Eng, P.Eng

Engineer, BPV

Tel.: +1 416-734-3212

Email: smadhuranath@tssa.org



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



STATUTORY DECLAR Registration of Fitting	
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 and Pressure Vessels Regulation, comply with all of the requirements of ASME B16.34	Technical Standards and Safety Act, Boilers
(Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature rating	gs, 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 identifies the dimensions, material of construction,
I further declare that the manufacture of these fittings is controlled by a quality system reward which has been verified by the following authority, TUV The items covered by this declaration, for which I seek registration, are category C - Triple C 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 <u>Vebs ter</u> in the <u>State</u>	e of Texas
the 24th day of June AD 20 24. Commissioner for Oaths: Teodoro Sosa IIII (Printed name)	TEODORO SOSA III My Notary ID # 131289924 Expires November 30, 2025
(Signature)	(Signature of Declarer)
FOR OFFICE USE ONLY	
To the best of my knowledge and belief, the application meets the requirements of the <i>Technical Standards and Safety Act</i> , Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category	Technical Boilers and Standards Pressure Vessels and Safety Safety Program Authority
CRN:	REGISTERED
Registered by:	C.R.N.: 0C25363.5 Signed:
Dated:	Date: July 18, 2024.
NOTE: This registration expires on:Jul 18, 2034	Registration only covers valves that are in full compliance with ASME B16.34

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

ARI-ARMATUREN USA, LP

125 MAGELLAN CIRCLE WEBSTER, TX 77598, USA



THIS IS PART OF CRN 0C25363.5

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

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30-May-24

SCOPE OF CRN REGISTRATION

			ARI-				ASME B16.34		
Product	Design	Standard Material	Armaturen	Size	End	Pressure	Table 2	MAWP at 100°F	Design
Description	Code	(Note 4)	Figure	Range	Connection	Class	(Note 3)	(Note 1, 2, 3)	Report
ARI-ZETRIX® Triple Offset Butterfly Valves	ASME B16.34	Carbon Steel	32.016	NPS 3" thru	Double	ANSI 150	1.1	285 psig at 100°F	R-1810
	·	SA216-WCB		NPS 48"	Flanged				R.0
			35.016	NPS 3" thru	Double	ANSI 300	1.1	740 psig at 100°F	
				NPS 48"	Flanged				
		Stainless Steel	52.016	NPS 3" thru	Double	ANSI 150	2.2	275 psig at 100°F	
		SA351-CF8M		NPS 48"	Flanged				
			55.016	NPS 3" thru	Double	ANSI 300	2.2	720 psig at 100°F	
				NPS 48"	Flanged				
		Alloy Steel	82.016	NPS 3" thru	Double	ANSI 150	1.9	290 psig at 100°F	
		SA217-WC6		NPS 48"	Flanged				
			85.016	NPS 3" thru	Double	ANSI 300	1.9	750 psig at 100°F	
				NPS 48"	Flanged				
		Carbon Steel	32.018	NPS 3" thru	Threaded	ANSI 150	1.1	285 psig at 100°F	
		SA216-WCB		NPS 24"	Flange				
			35.018	NPS 3" thru	Threaded	ANSI 300	1.1	740 psig at 100°F	
				NPS 24"	Flange				
		Stainless Steel	52.018	NPS 3" thru	Threaded	ANSI 150	2.2	275 psig at 100°F	
		SA351-CF8M		NPS 24"	Flange				
			55.018	NPS 3" thru	Threaded	ANSI 300	2.2	720 psig at 100°F	
				NPS 24"	Flange				
		Alloy Steel	82.018	NPS 3" thru	Threaded	ANSI 150	1.9	290 psig at 100°F	
		SA217-WC6		NPS 24"	Flange				
			85.018	NPS 3" thru	Threaded	ANSI 300	1.9	750 psig at 100°F	
				NPS 24"	Flange				
		Carbon Steel	32.019	NPS 3" thru	Butt Weld	ANSI 150	1.1	285 psig at 100°F	
		SA216-WCB		NPS 32"					
			35.019	NPS 3" thru	Butt Weld	ANSI 300	1.1	740 psig at 100°F	
				NPS 32"					
		Stainless Steel	52.019	NPS 3" thru	Butt Weld	ANSI 150	2.2	275 psig at 100°F	
		SA351-CF3M		NPS 24"					
			55.019	NPS 3" thru	Butt Weld	ANSI 300	2.2	720 psig at 100°F	
				NPS 24"]
		Carbon Steel	37.018	NPS 3" thru	Threaded	ANSI 600	1.1	1480 psig at 100°F	
		SA216-WCB	<u> </u>	NPS 24"	Flange	<u> </u>			

ARI-ARMATUREN USA, LP

125 MAGELLAN CIRCLE WEBSTER, TX 77598, USA



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SCOPE OF CRN REGISTRATION CONTINUED

			ARI-				ASME B16.34		
Product	Design	Standard Material	Armaturen	Size	End	Pressure	Table 2	MAWP at 100°F	Design
Description	Code	(Note 4)	Figure	Range	Connection	Class	(Note 3)	(Note 1, 2, 3)	Report
ARI-ZETRIX®	ASME B16.34	Stainless Steel	57.018	NPS 3" thru	Threaded	ANSI 600	2.2	1440 psig at 100°F	R-1810
Triple Offset		SA351-CF8M		NPS 24"	Flange				R.0
Butterfly Valves		Carbon Steel	37.019	NPS 3" thru	Butt Weld	ANSI 600	1.1	1480 psig at 100°F	
		SA216-WCB		NPS 24"					

Note 1: MAWP = Maximum Allowable Working Pressure.

Note 2: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP may be limited by the seat or seal material or other considerations. Please consult ARI-Armaturen literature.

Note 3: Pressure-temperature ratings above 100°F are in accordance with applicable ASME B16.34 Table 2 ratings.

Note 4: 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 5: Per ASME B16.34 para. 2.3.2. the pressure rating for service at any temperature below -20F shall be no greater that the ASME B16.34 ratings for -20°F. Products that are to operate at low temperatures shall conform to the rules of the applicable codes under which they are used.

Note 6: Pressure-Temperature Ratings of buttweld end valves may be limited by the buttweld end pressure rating. Buttweld end pressure ratings shall be calculated in accordance with the rules of the applicable codes under which they are used.

Note 7: See attached Worldwide Locations Appendix.



WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 1

ARI-ARMATUREN LOCATIONS & CERTIFYING AUTHORITIES

(rev. May 13, 2024)

ARI-Armaturen Albert Richter GmbH & Co. KG

Mergelheide 56-60 33758 Schlob Holte-Stukenbrock Germany ISO 9001 Certified by TUV

ARI-Armaturen Albert Richter GmbH & Co. KG

Am Eisenwerk 10 34576 Homberg (Efze) Germany ISO 9001 Certified by TUV

ARI-Armaturenwerk Halle GmbH

Turmstrabe 118 06110 Halle (Saale) Germany ISO 9001 Certified by TUV

ARI-Armaturen Albert Richter GmbH & Co. KG c/o ARI-Armaturen A/S

Strevelinsvej 16 7000 Fredericia Denmark ISO 9001 Certified by TUV

ARI-Armaturen GmbH

Lichtblaustrabe 10A 1220 Wien Austria ISO 9001 Certified by TUV

ARI-Armaturen USA, LP

125 Megellan Circle Webster, TX 77598, USA ISO 9001 Certified by TUV

THIS IS PART OF CRN

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