## APPLICATION FOR RENEWAL OF APPROVAL FOR VALVES AND FITTINGS

	1. AAR APPROVAL No. <u>E-197017 Rev A</u>
	2. Date of Application <u>7/13/2023</u>
	3. Previous AAR Approval <u>E-197017</u>
4. Applicant: McKenzie Valve & Machining LLC	
5. Address: 145 Airport Road, McKenzie, TN 38201	
6. Drawing No. See #12 7. Latest rev. See	e #12 8. Date of latest rev. See #12
9. Description of device: Flanged Vacuum Relief Valve	
·	from the previous approval, and conforms with the latest Tank Cars, Appendix A. The device conforms with drawing Title:
12. Reference Previous Drawing New Drawing No. 109613 Rev. B Date 7/02/2012 No. 10 No. 507941 Rev. A Date 9/11/2008 No. 50	pproval, fill in the following blanks  Wing  If on Service Trial  9613 Rev. E Date 6/23/2023 S.T. No. n/a  7941 Rev. J Date 12/15/2022 S.T. No. n/a  Attached Table for New Drawings S.T. No. n/a
13. New drawing supersedes previous one $\square$ or does not	obsolete it X
CHANGES	REASONS FOR CHANGES
14. a. See the attached table. b. c. d. (if needed use supplemental sheet)	a. See the attached table. b c d
15. Normal operational effect of changes of device: N	one
16. Drawing submitted with this application:  CERTIFICATION: The above data is correct and con The device conforms with drawin	forms with AAR Specifications for Tank Cars, Appendix A.
17. By: Roger Danzy	Title: Product Engineer
ADDOWAL AAD Tools Con Committee	
APPROVAL AAR Tank Car Committee:  Date Approved: 8/8/2023	Kinnell Dorsey
	(Signature) on behalf of Committee

Form AAR 4-7 8/1/2014

Updates to Approved Drawings					
Drawing	Device ID / Model No.	Rev.	Date	Changes	Reason for Changes
	BODY, FLANGED VACUUM RELIEF VALVE MACHINING	Α	9/11/2008	Original Release	N/A
		В	6/29/2012	Added material table	Added materials.
109611		С	8/08/2013	Added holes for drive screws	Manufacturability.
		D	8/27/2021	Added 3 1/4-20 tapped holes	Cap bolting option.
		Е	12/14/2022	Updated material specification	Clarification.
109613	STEM-BASE FLANGED MACHINING VACUUM RELIEF VALVE	Α	9/11/2008	N/A - Approved on Previous Application	N/A
		В	7/2/2012	Changed 1.900 diameter to 1.884. Added table with line number and material.	To meet quad ring installation requirements. Added additional materials.
		С	8/13/2021	Changed 1.53 to 1.25. Removed section view within the side view.	To allow adjusting the set pressure of the valve. Clarity.
		D	12/14/2022	Updated material specifications for lines 01 to 04	Clarity
		E	6/23/2023	Added bar stock option to lines 01 to 04.	Option to use bar stock material

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New Drawings					
Drawing	Device ID / Model No.	Rev.	Date	Changes	Reason for Changes
114548	STEM-BASE VACUUM RELIEF VALVE BAR STOCK	Α	6/23/2023	Original Release	N/A

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Common Va	riations
Model No.	Part Number
VRV-075C-S4-F7	507941
VRV-075C-S6-F7	509975
VRV-150C-S4-F7	509978
VRV-150C-S6-F7	509984
VRV-150C-T6P-F7	513816
VRV-200C-S4-F7	509979
VRV-200C-S6-F7	509985
VRV-250C-S4-F7	510861
VIV 230C 3417	310001
VRV-250C-S6-F7	514961
VRV-300C-S4-F7	509980
VRV-300C-S6-F7	509986
VRV-400C-S4-F7	507948
VNV-400C-34-F7	307346
VRV-400C-S6-F7	509987
VRV-075C-S4-F8	511317
VRV-075C-S6-F8	511318
VRV-150C-S4-F8	511319
VRV-150C-S6-F8	511320
VRV-250C-S4-F8	511173
VRV-250C-S6-F8	511174
VRV-300C-S4-F8	511697
VRV-300C-S6-F8	511698

Common Variations		
Model No.	Part Number	
VRV-075C-S6-F10	511019	
VRV-150C-S6-F10	510668	
VRV-200C-S4-F10	511233	
VRV-200C-S6-F10	511234	
VRV-250C-S6-F10	513202	
VRV-300C-S6-F10	510862	
VRV-400C-S4-F10	511194	
VRV-400C-S6-F10	511195	
VRV-400C-T6P-F10	516181	
VRV-400C-T6-F10	516962	

VRV-150C-T6P-F10	515794
VRV-150C-T6P-F10-KO	515841