

APPLICATION FOR APPROVAL OF VALVES, CLOSURES, AND FITTINGS

Applicant McKenzie Valve and Machining, LLC AAR No. E-207056B
 Description of Device 2 Inch Rising Stem Valve

Applicant No. _____ Device Ident. No. 2-RSV (See Drawing No's) Date 10/1/2025

1. Manufacturer McKenzie Valve and Machining, LLC
 2. Address 145 Airport Road City McKenzie State TN Zip 38201
 3. Test facility if other than the manufacturer _____ Address _____
 4. Test date 09/21/2020 to 9/24/2020 4. Observer Tommy Summers
 Title: Product & Process Improvement Manager

TEST PROCEDURE

5. Description of prototype testing: 100% Hydro Shell test to a minimum of 1.5 x Nameplate Pressure
100% 80-100 PSIG test of seat seal, packing, outlet flange and plug test with air or nitrogen

6. Cycles <u>100</u> <u>5 Valves</u>	Min. Temp. <u>70</u> °F _____ °C	@ Pressure <u>100</u> psi _____ kPa	Cycles <u>N/A</u>	Max. Temp. <u>70</u> °F _____ °C	@ Pressure <u>100</u> psi _____ kPa	Test Medium <u>Dry Air</u>	Remarks <u>Seat/Packing Leakage Test</u>
Cycles <u>N/A</u> <u>5 Valves</u>	Min. Temp. <u>70</u> °F _____ °C	@ Pressure <u>900</u> psi _____ kPa	Cycles <u>N/A</u>	Max. Temp. <u>70</u> °F _____ °C	@ Pressure <u>900</u> psi _____ kPa	Test Medium <u>Water</u>	Remarks <u>Hydrotest of Body/Bonnet</u>
Cycles <u>N/A</u> <u>5 Valves</u>	Min. Temp. <u>70</u> °F _____ °C	@ Pressure <u>100</u> psi _____ kPa	Cycles <u>N/A</u>	Max. Temp. <u>70</u> °F _____ °C	@ Pressure <u>100</u> psi _____ kPa	Test Medium <u>Dry Air</u>	Remarks <u>Outlet Flange and Plug Leakage Test</u>

7. Commodity: Regulated Commodity ☒ Non Regulated Commodity ☒ Specific Commodity _____
 8. Flow rate (if applicable) _____ gpm (_____ L/min)

Applicable drawings	Material	Drawing Number latest revision	Precedent	
			Drawing Number	Application/Certificate
9. Device application	DI/CS/SST	See Table 1 on Next Page		
10. Device assembly .				Submitted
11. Device details .				

12. Quality Control Statement Manufacture is M1003 certified and maintains a rigid quality control program to verify that all required specifications and tests are adhered to.

REVISIONS:

CERTIFICATION: The above data is correct and conforms with AAR Specifications for Tank Cars, Appendix A. The devices tested conform with drawings listed above.

By Cole Rankin Title Lead Product Engineer

APPROVAL AAR Tank Car Committee Service Trial

Required Date Approved for Service Trial: 7/14/2021

Service Trial Number: ST480- Ductile Iron, ST481- Carbon Steel, ST482- Stainless Steel. **revised application approved date: 11/7/2025**

(Signature) on behalf of Tank Car Committee

APPROVAL AAR Tank Car Committee Service Completed / Not Required

Date Service Trial Completed 11/7/2025

Date AAR Received Form AAR 4-6 10/1/2025

Date Approved _____

Expiration Date 7/14/2031

(Signature) on behalf of Tank Car Committee

Table 1: Device Assembly Drawings Numbers	
Drawing	Notes
514314	Line -01 is ST480 (Ductile Iron) Line -02 is ST481 (Carbon Steel) Line -03 is ST482 (Stainless Steel)
515009	
517047	
517050	