APPLICATION FOR APPROVAL OF PRESSURE RELIEF DEVICE

APPROVAL REQUESTED OF AAR TANK CAR COMMITTEE

AAR NO. PRD- 092007
Applicant's No. _____
Date __6-15-09, 10-17-11 (REVISED)__
Device identification No. __A-1477-3KY__
_____ A-14167-3KY

Applicant __MIDLAND MANUFACTURING__

1. Manufacturer __MIDLAND MANUFACTURING CORPORATION__
   Address __7733 GROSS POINT ROAD, SKOKIE IL. 60077__
2. Test facility COLORADO ENGINEERING EXPERIMENT STATION, INC. 3. Location NUNN, COLORADO
4. Test date __11/29/01__ 5. Observer __RUSS GERMICK__

6. Device Number	7. Start-to-discharge		8. Flow rating		9. Vapor-tight		10. Flow capacity	
	psi	kPa	psi	kPa	psi	kPa	SCFM	std.m³/s
PRECEDENT A-1477-KY	75		85		60		2027	
PRECEDENT A-14167-KY	165		181		132		3612	

11. Official flow capacity (air) 2027 / 3612 scfm (_____ std. m³/s) at flow rating pressure 85 / 181 psi (_____ kPa)
Test medium __AIR__
12. Commodities __ACID AND CHEMICALS COMPATIBLE WITH "KYNAR" (PVDF) VALVE COMPONENTS__

The following drawings apply	Drawing number Latest revision	Precedent Drawing number	Application/ Certificate
13. Valve Assembly................................	A-1477-3KY REV. B / A-14167-3KY REV. B	A-1477-KY / A-14167-KY	PRD-022003
*14. Valve Mounting Nozzle......................	NONE	NONE	
15.			
16.			

REVISIONS:

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

THIS VALVE IS INTENDED TO REPLACE 3 BOLT SAFETY VENT

By: __JOSEPH FIORE__ Title __GLOBAL DIRECTOR, ENGINEERING__

APPROVAL AAR Tank Car Committee

Date Approved __SEP 02 2014__

(Signature) on behalf of Tank Car Committee

* When the design of a pressure relief device is such that the spring follower is guided by the mounting nozzle, the mounting nozzle shall be considered as a required part of the application and a drawing of the nozzle in sufficient detail to show critical dimensions shall be included. When the pressure relief device design does not require the mounting nozzle to act as a guide for the spring follower the word "None" can be used in the space for this item.

Form AAR 4-3 Revised 12/1/2000   **THESE ARE AVERAGE VALUES FOR 3 VALVES FLOW TESTED AT THESE PARAMETERS