

APPLICATION FOR APPROVAL OF PRESSURE RELIEF DEVICE

AAR NO. PRD- 112008A

Applicant's No. _____

Date 5/21/15

Device identification No. A-1076-SS; A-1076-SS-S01

APPROVAL REQUESTED OF AAR TANK CAR COMMITTEE

Applicant Midland Manufacturing

1. Manufacturer Midland Manufacturing

Address 7733 Gross Point Rd, Skokie IL 60077

2. Test facility Colorado Engineering Experiment Station, Inc (CEESI)

3. Location Nunn, CO

4. Test date 2/19/15

5. Observer Kaleb Hoyt/Bryan Trostel

6. Device Number	7. Start-to-discharge		8. Flow rating		9. Vapor-tight		10. Flow capacity	
	psi	kPa	psi	kPa	psi	kPa	SCFM	std.m ³ /s
(A-1076-SS) S/N: MMC-A2	76.9		85		75.2		962.23	
(A-1076-SS) S/N: MMC-A4	76.9		85		75.1		987.81	
(A-1076-SS) S/N: MMC-A5	76.1		85		74.0		978.33	
(A-1076-SS-S01) S/N: MMC-A20	76.5		85		74.6		932.70	
(A-1076-SS-S01) S/N: MMC-A40	75.3		85		73.7		950.32	
(A-1076-SS-S01) S/N: MMC-A50	77.0		85		75.5		1010.90	

11. Official flow capacity (air) 976/965 scfm () std. m³/s at flow rating pressure 85 psi () kPa

Test medium Air

12. Commodities Ethylene Oxide and other commodities requiring this flow capacity

The following drawings apply	Drawing number Latest revision	Precedent	
		Drawing number	Application/ Certificate
13. Valve Assembly.....	A-1076-SS (REV E); A-1076-SS-S01	A-1076-SS; A-1079	PRD112008; PRD092020
*14. Valve Mounting Nozzle.....			
15.			
16.			

REVISIONS: A-1076-SS: Removed flue, cap, chain, and rivet. 10-47-SS, 10-27-SS, 10-3-SS, 10-7-SS, 10-8-SS & 10-32-SS were 10-46-SS, 10-26-SS, 10-36-SS, 10-760-SS, 10-81-SS, & 10-18-SS
[Changes through flowpath of valve and guiding of stem]

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.

By: Kaleb Hoyt

Title Design Engineer

APPROVAL AAR Tank Car Committee

Date Approved MAY 21 2015


(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.