

APPLICATION FOR APPROVAL OF PRESSURE RELIEF DEVICE

AAR NO. PRD- PRV 139504

Applicant's No. _____

Date 2013-02-05

Device identification No. 06388

APPROVAL REQUESTED OF AAR TANK CAR COMMITTEE

Applicant HEROSE GmbH
1/2" TO 2" VARIABLE SET PRESSURE SAFETY VALVES

1. Manufacturer HEROSE GmbH
 Address ELLY-HEUSS-Knapp-STR 12, 23843 BAD OLDESLOE GERMANY
 2. Test facility LESER GmbH 3. Location HAMBURG, GERMANY
 4. Test date 11-9-2009 5. Observer JOSEPH F. BALL

6. Device Number	7. Start-to-discharge		8. Flow rating		9. Vapor-tight		10. Flow capacity	
	Range psi	kPa	Range psi	kPa	Range psi	kPa	SCFM	std.m ³ /s
<u>06388 do 0.276</u>	<u>80-725</u>		<u>88-797</u>		<u>72-652</u>		<u>89-700</u>	
<u>06388 do 0.414</u>	<u>60-725</u>		<u>66-797</u>		<u>54-652</u>		<u>118-1192</u>	
<u>06388 do 0.591</u>	<u>60-725</u>		<u>66-797</u>		<u>54-652</u>		<u>208-2096</u>	
<u>06388 do 0.907</u>	<u>50-725</u>		<u>55-797</u>		<u>45-652</u>		<u>524-6111</u>	

11. Official flow capacity (air) _____ scfm (_____ std. m³/s) at flow rating pressure _____ psi (_____ kPa)^{*2}
 Test medium _____

12. Commodities ETHYLENE, CRYOGENIC LIQUEFIED GASES, O₂, N₂, Ar, H₂, He, CO₂, CO, LNG, LPG

The following drawings apply	Drawing number Latest revision	Precedent	
		Drawing number	Application/ Certificate
13. Valve Assembly.....	<u>see list of drawings</u>	_____	_____
*14. Valve Mounting Nozzle.....	<u>NONE</u>	_____	_____
15.	_____	_____	_____
16.	_____	_____	_____

REVISIONS: 1

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: MARC ZAUBITZER Title QUALITY MANAGEMENT

APPROVAL AAR Tank Car Committee

Date Approved APR 04 2014

Kenneth B Dorsey
 (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.

*do = Orifice
 *2 Variable see page 2 of catalogue