

**APPLICATION FOR RENEWAL OF APPROVAL FOR PRESSURE RELIEF
DEVICES, VALVES, CLOSURES, AND FITTINGS**

1. AAR APPROVAL No. E182105
 2. Date of Application 05/01/2018
 3. Previous AAR Approval E089014

4. Applicant: Metso
 5. Address: 44 Bowditch Dr. Shrewsbury, MA 01545-8044
 6. Drawing No. S5110, R109-1(6FR), R110-1(6FRF) 7. Latest rev. A 8. Date of latest rev. 07-12, 03-13, 02-16
 9. Description of device: LIQUID/VAPOR VALVE 10. Device IDNo. 6FR

CERTIFICATION: The subject device is **unchanged** from the previous approval, and conforms with the latest revision of AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

11. By: _____ Title: _____

If device is **changed** since latest approval, fill in the following blanks

12. Reference Previous Drawing	New Drawing	If on Service Trial
No. _____ Rev. _____ Date _____	No. <u>5541</u> Rev. <u>0</u> Date <u>03-2013</u>	S.T. No. _____
No. _____ Rev. _____ Date _____	No. <u>5542</u> Rev. <u>0</u> Date <u>03-2013</u>	S.T. No. _____
No. _____ Rev. _____ Date _____	No. <u>5543</u> Rev. <u>0</u> Date <u>03-2013</u>	S.T. No. _____

11. New drawing supersedes previous one or does not obsolete it

CHANGES

REASONS FOR CHANGES

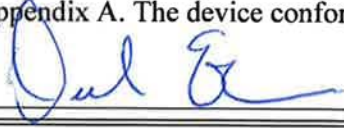
14. a. <u>External change for single flanged configuration</u>	a. <u>Compliance to new AAR regulations on tankcar primary connections.</u>
b. _____	b. _____
c. _____	c. _____
d. _____	d. _____

(if needed use supplemental sheet)

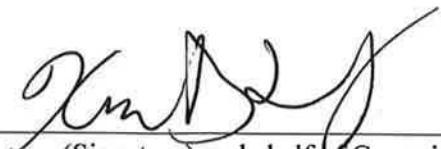
15. Normal operational effect of changes of device: None. Same functional internal components (ball, stem, seat, seals, etc.) for equivalent operating torque and sealing performance. Same outboard connection (NPT).

16. Drawing submitted with this application: S5110-0, 5541-0, 5542-0, 5543-0

CERTIFICATION: The above data is correct and conforms with AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

17. By: David Escobar  Title: Director of Engineering

APPROVAL AAR Tank Car Committee:

Date Approved: 7/5/2018 
 (Signature) on behalf of Committee