

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

1. AAR APPROVAL No. E152109
 2. Date of Application 05/01/2018
 3. Previous AAR Approval E089012
 4. Applicant: Metso
 5. Address: 44 Bowditch Dr., Shrewsbury, MA 01545-8044
 6. Drawing No. 5152 & R100-7 7. Latest rev. J & 8/11 8. Date of latest rev. 8/12/2011
 9. Description of device: 1/2" - 6" LIQUID / VAPOR VALVE 10. Device ID No. 7000 SERIES

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. <u>5152</u> Rev. <u>J</u> Date <u>12/12/08</u>	No. <u>5482</u> Rev. <u>C</u> Date <u>3/23/15</u>	S.T. No. _____
No. _____ Rev. _____ Date _____	No. <u>5483</u> Rev. <u>A</u> Date <u>7/22/10</u>	S.T. No. _____
No. _____ Rev. _____ Date _____	No. <u>5484</u> Rev. <u>A</u> Date <u>7/22/10</u>	S.T. No. _____
	No. <u>5644</u> Rev. <u>0</u> Date <u>7/5/17</u>	

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

CHANGES

REASONS FOR CHANGES

14. a. 3 - 6" Bonnet mounting bolt pattern a. To meet ISO 5211 actuator mount standard
 b. 3 - 6" Stem diameter b. To communize packing design with butterfly valve
 c. _____ c. _____
 d. _____ d. _____
 (if needed use supplemental sheet)

15. Normal operational effect of changes of device: None: Form, fit and function are the same as previous model. Sealing components (Ball & Seat) are the same for equivalent operating torque and sealing performance. Stem diameters are slightly smaller to match currently approved WSRR (AAR E089015).

16. Drawing submitted with this application: 5152-J, 5482-C, 5483-A, 5484-A, 5644-0

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