

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

1. AAR APPROVAL No. E172100
 2. Date of Application 7/6/2015
 3. Previous AAR Approval E89013 E089013
 4. Applicant: Metso Automation USA, Inc.
 5. Address: 44 Bowditch Dr, Shrewsbury, MA 01545-8044
 6. Drawing No. See Below 7. Latest rev. Rev. 0 8. Date of latest rev. 7/9/2015
 9. Description of device: Full Port Ball Valve for Liquid & Vapor Service 10. Device ID No. 9000 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>5104</u> Rev. <u>K</u> Date <u>31 MAR 2004</u>	No. <u>5571</u> Rev. <u>0</u> Date <u>7/11/2015</u>	S.T. No. _____
No. <u>5104</u> Rev. <u>K</u> Date <u>31 MAR 2004</u>	No. <u>5573</u> Rev. <u>0</u> Date <u>7/11/2015</u>	S.T. No. _____
No. <u>5104</u> Rev. <u>K</u> Date <u>31 MAR 2004</u>	No. <u>5575</u> Rev. <u>0</u> Date <u>7/11/2015</u>	S.T. No. _____

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

CHANGES

REASONS FOR CHANGES

14. a. <u>2" - 4" 9150 ISO 5211 Bonnet Bolt pattern</u>	a. <u>Compliance to EU specifications</u>
b. <u>2" - 4" 9150 Revised shaft diameter</u>	b. <u>Match WSRK packing design for modularity</u>
c. _____	c. <u>with Butterfly valves in future</u>
d. <u>Added Body Material Options (All Sizes & Classes)</u> (if needed use supplemental sheet)	d. <u>To support corrosive or reactive commodities in accordance with ASME B16.34 design rules</u>

15. Normal operational effect of changes of device: None. The valve have the same face to face, fit in the same envelope dimensions, same handle lengths, and are operated in the same manner. The internal sealing components (seats and balls) are the same parts currently used. The drive connection between the shaft and ball are the same. The packing design parameters are the same. 2" - 4" 9150 are the only model C products. Other sizes are unchanged.

16. Drawing submitted with this application: 5104 Rev K, 5571 Rev 0, 5573 Rev 0, 5575 Rev 0, 5446 Rev E

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: Dennis Foley _____ Title: Key Accounts Manager, Transportation

APPROVAL AAR Tank Car Committee:

Date Approved: 3/7/2017

Kurt D. Dreyer
(Signature) on behalf of Committee