

**AAR Manual of Standards and Recommended Practices**  
**Specifications for Tank Cars**

CHAPTER 1

M-1002

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

1. AAR APPROVAL No. E152111  
2. Date of Application 01-11-16  
3. Previous AAR Approval E119024  
4. Applicant: CONBRACO INDUSTRIES INCORPORATED  
5. Address: P. O. BOX 125, PAGELAND, SC 29728  
6. Drawing No. 87A/88A-100 7. Latest rev. A 8. Date of latest rev. 01/11/16  
9. Description of device: 1-1/2", 2", 2-1/2", 3" & 4" TWO-PIECE FLANGED 10. Device ID No. 87A/88A-100 SERIES  
BALL VALVE, CLASS 150, STANDARD PORT, CARBON STEEL & STAINLESS STEEL

**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>87A10A24</u> Rev. <u>A</u> Date <u>03/09/11</u> | No. <u>87A/88A-100</u> Rev. <u>A</u> Date <u>01/11/16</u> | S.T. No. _____      |
| No. _____ Rev. _____ Date _____                        | No. <u>D557300</u> Rev. <u>A</u> Date <u>09/29/15</u>     | S.T. No. _____      |
| No. _____ Rev. _____ Date _____                        | No. _____ Rev. _____ Date _____                           | S.T. No. _____      |

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

**CHANGES**

**REASONS FOR CHANGES**

- |  |   |
|--|---|
| 14. a. <u>ADDED NEW DESIGNED VALVE SEAT</u><br>b. <u>ADDED TFM SEAT MATERIAL</u><br>c. <u>COMBINED ALL VALVE SIZES ON ONE DRAWING</u><br>d. <u>COMBINED ALL VALVE MATERIALS ON ONE DRAWING</u><br>(if needed use supplemental sheet) | a. <u>IMPROVE LOW PRESSURE SEAT SEALING</u><br>b. <u>PROVIDES ENHANCED PHYSICAL PROPERTIES</u><br>c. <u>PROVIDES ALL SIZES THAT REQUIRE AAR APPROVAL</u><br>d. <u>PROVIDES ALL MATERIAL THAT REQUIRE AAR APPROVAL</u> |
|--|---|

15. Normal operational effect of changes of device: THE NEW SEAT DESIGN IMPROVES LOW PRESSURE SEALING  
WITHOUT INCREASING VALVE OPERATING TORQUES. ALLOWABLE PRESSURE AND TEMPERATURE LIMITS REMAIN  
unchanged.

16. Drawing submitted with this application: 87A/88A-100 REVISION A & D557300 REVISION A

**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: *Chuck Tapp* Title: SENIOR PROJECT ENGINEER

APPROVAL AAR Tank Car Committee:

Date Approved: JAN 11 2016

*Kenneth B Dorsey*  
(Signature) on behalf of Committee

Form AAR 4-7 8/1/2014

**Fig. 1.5 Form AAR 4-7 Application for Renewal of Approval for Pressure Relief Devices, Valves, Closures, and Fittings**