

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. E152113
2. Date of Application 01/11/16
3. Previous AAR Approval E119031
4. Applicant: CONBRACO INDUSTRIES INCORPORATED
5. Address: P. O. BOX 125, PAGELAND, SC 29728
6. Drawing No. 87A/88A-380 7. Latest rev. A 8. Date of latest rev. 01/11/16
9. Description of device: 1", -2" & 3" TWO-PIECE FLANGED X NPT 10. Device ID No. 87A/88A-380 SERIES
BALL VALVE, CLASS 150, FULL 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>87A380A0</u> Rev. <u>B</u> Date <u>08/16/11</u> | No. <u>87A/88A-380</u> Rev. <u>A</u> Date <u>01/11/16</u> | S.T. No. _____ |
| No. _____ Rev. _____ Date _____ | No. <u>D657300</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>ADD NEW DESIGNED VALVE SEAT</u>
b. <u>ADDED TFM SEAT MATERIAL</u>
c. <u>COMBINED ALL VALVE SIZES ON ONE DRAWING</u>
d. <u>COMBINED ALL VALVE MATERIALS ON ONE DRAWING</u>
(if needed use supplemental sheet) | a. <u>IMPROVE LOW PRESSURE SEAT SEALING</u>
b. <u>PROVIDES ENHANCED PHYSICAL PROPERTIES</u>
c. <u>PROVIDES ALL SIZES THAT REQUIRE AAR APPROVAL</u>
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-380 REVISION A & D657300 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 Taylor Title: SENIOR PROJECT ENGINEER

APPROVAL AAR Tank Car Committee:

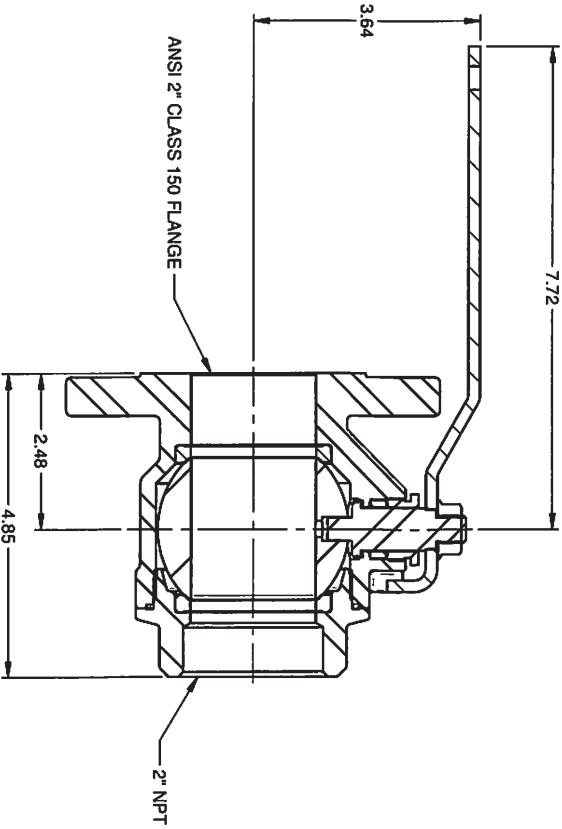
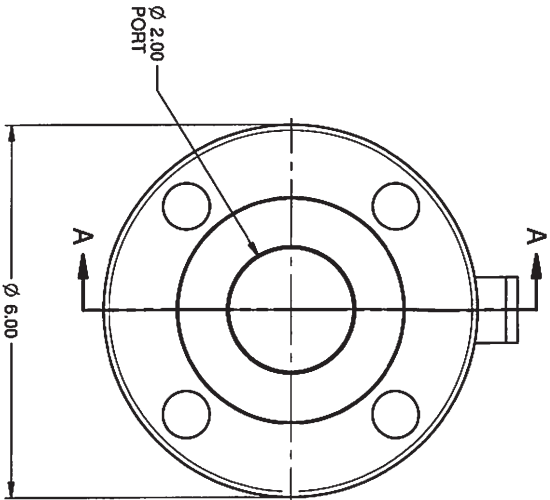
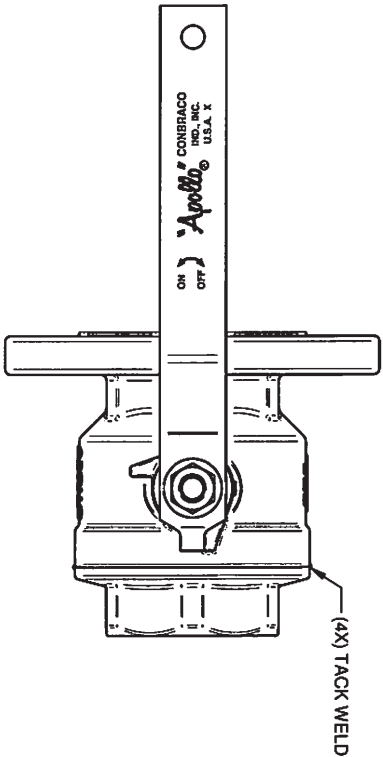
Date Approved: JAN 11 2016

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

PART NO.	DESCRIPTION	QTY.
B130706	GLAND, PKG. 1-24X. 515. 316SS	1
C202000	NUT, FLANGE, 7/16-20, SS	1
DS11100	BEARING, STEM, RPTFE, BV, 76F SER	1
DS11200	SEAL, 3.405OD, 3.200ID, .072THK	1
D200000	PACKING, STEM, BV, GRPH	1
DS78500	SEAT, DYNEON, 2", 76F	2
G496306	STEM, 2", 76F SER, SS	1
I735405	HANG TAG, YELLOW	1
K452100	BALL, SS, SLOT VENT	1
L852205	RETAINER, 2"NPT, CF8M SS, 76F SER	1
U263505	BODY, 2" 150#, CF8M SS, 76F SER	1
W635700	LVR/GRIP, SS (H-2705, APOLLO)	1



SECTION A-A

NOTE: This drawing and the subject matter depicted therein is the property of Conover Industries, Inc. and is not to be copied, used, reproduced or disclosed to others without the expressed written permission of Conover Industries, Inc.

				REV		CHANGE DESCRIPTION		EOM NO.		BY		DATE	
NAME: BV 2"NPT X 150 FLANGE, FP, SS, GRPH, 4 TACK WELDS													
MATERIAL: SEE CHART													
EXP. NO.				SCALE: 1:2				DRN: TH					
				DATE: 7/21/20				CHD: WGH					
				APP'D: CRP				NO. 76F38824SP1					
				REV. A									

NOTE: VALVE SHOWN IN OPEN POSITION.