

**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. E172108
 2. Date of Application 03-08-17
 3. Previous AAR Approval E119025
 4. Applicant: CONBRACO INDUSTRIES INCORPORATED
 5. Address: P. O. BOX 125 PAGELAND, SC 29728
 6. Drawing No. 76F-100-01A 7. Latest rev. A 8. Date of latest rev. 03-08-17
 9. Description of device: 3" and smaller, Two-Piece, Full Port Ball Valve 10. Device ID No. 76F-100 Series
 Stainless Steel, Threaded End Connection, 1000 psig CWP

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>76F10X52</u> Rev. <u>-</u> Date <u>02-02-00</u>	No. <u>76F-100-01A</u> Rev. <u>A</u> Date <u>03-08-17</u>	S.T. No. _____
No. _____ Rev. _____ Date _____	No. _____ Rev. <u>A</u> Date _____	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> | a. <u>IMPROVE LOW PRESSURE SEAT SEALING</u> |
| b. <u>ADDED TFM SEAT MATERIAL</u> | b. <u>PROVIDES ENHANCED PHYSICAL PROPERTIES</u> |
| c. _____ | c. _____ |
| d. _____ | d. _____ |
- (if needed use supplemental sheet)

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: 76F-100-01A

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 Tyson *Chuck Tyson* Title: SENIOR PROJECT ENGINEER

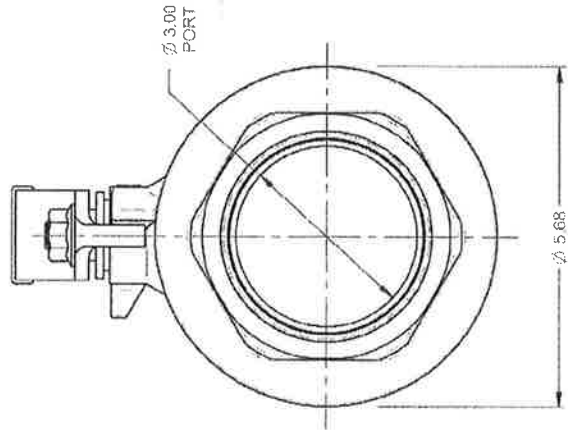
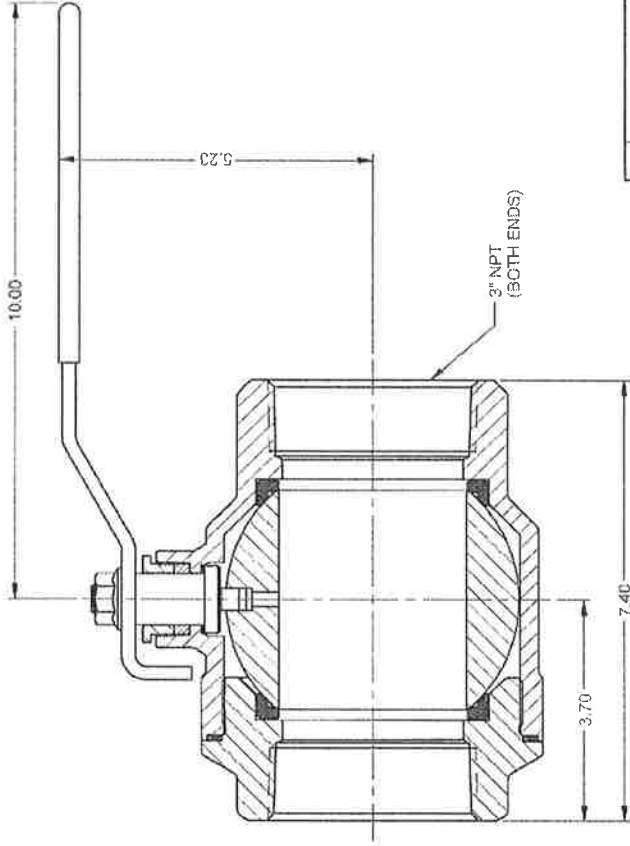
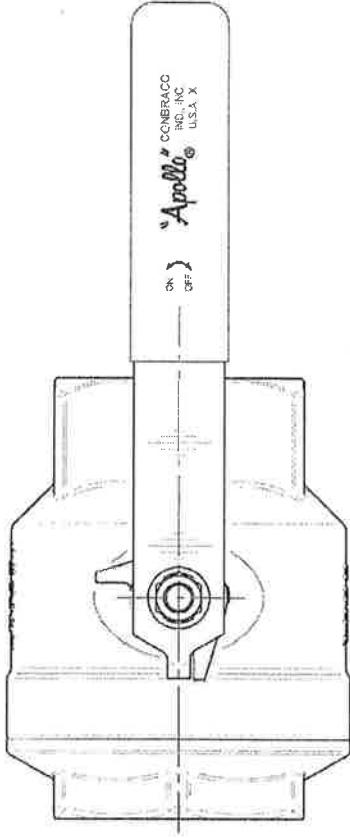
APPROVAL AAR Tank Car Committee:

Date Approved: *Kim D. Dany* 5/11/17
 (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.
B158906	GLAND, PKG. 1-1/4-18X.515, SS	1
C168900	NUT, HEX. 1/2-20, GR8 SS	1
D196900	BEARING, STEM, BV, RPTFE	1
D266800	PACKING, STEM, BV, NPTFE	1
D557300	SEAT, TFM 1700, 3"FP, FLG BV	2
G457406	STEM, 4", 70SER, SS	1
K432000	BALL, SS, SLOT VENT	1
L889105	RETAINER, MACH, 3"NPT, CF8M, 76F	1
U152305	BODY, MACH, 3"NPT, CF8M, 76F, 100	1
D432000	SEAL, BODY, 5.03ID, RPTFE	1
EZ08900	WASHER, 0.53ID, 1.05OD, 0.09T, SS	1
W614600	LVR/GRIP, SS (H-2662, APOLLO)	1



REV	CHANGE DESCRIPTION	ECN NO	BY	DATE

NAME: ASSY, BV, 3" NPT, FP, SS, 76F SERIES (REV A)				
MATERIAL: SEE CHART				
SCALE	DATE	CHKD	APPD	REV
1.2	03/08/17	DKH	KDB	76F10001A

NOTE: This drawing and their BOM items depicted herein are a property of Conbraco Industries, Inc. and shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the expressed written permission of Conbraco Industries, Inc.



NOTE: VALVE SHOWN IN OPEN POSITION.