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

M-1002

CHAPTER 1

		APPL	ICATION FO	R APPRO	JVAL OF VA	LVES AND	EILIIN	GS		
Applicant METAL GOODS MANUFACTURING INCAAR NoE099012										
Description of Device THERMOMETER WELL FITTING										
Applicant No. Device Ident, No. 110Y/SS & CS Date 5-18-09										
METAL COODS MANUSACTURING										
1. Manufacturer PO BOX 2096 City BARTLESVILLE State OK Zip 74005										
2.	2. Test facility METAL GOODS MANUFACTURING Address 309 W HENSLEY BLVD.									
	3. Test date <u>5-14-09</u> 4. Observer <u>JOHN RANDOLPH</u>									
TEST PROCEDURE:  5. Weight or mass of device 2.2   1b. (   kg)										
6. Description of prototype testing: 1ST TEST 300 PSIG FOR 10 MIN, 2ND TEST 500 PSIG FOR 10 MIN 3RD TEST 750 PSIG FOR 10 MIN, 4TH TEST 1000 PSIG FOR 10 MIN										
7. Description of production testing: <u>DIMENSIONAL INSPECTION WILL BE DONE ON EACH COMPONENT PART</u> BEFORE ASSEMBLY										
Q	Cycles	Min. Temp.	@ Pressure	Cycles	Max. Temp.	@ Pressure	Test M	edium	Remarks	
ο,	4	AMB °F	300-1000psi	Cycles	°F	psi	1 03.17	coram	NO LEAKS	
		°C	kPa		°C	kPa			no zznac	
-	Cycles	Min. Temp.	@ Pressure	Cycles	Max, Temp,	@ Pressure	Test M	edium	Remarks	
	Cycles	or	psi	Cycics	°F	psi	1030.00	coloni	Acmarks	
•		°C	kPa		°C	kPa				
9.	Cycles	Min. Pressure	@ Temp.	Cycles	Max. Pressure	@ Temp.	Test M	cdium	Remarks	
		psi	^F	***************************************	psi	°F	<u> </u>	-		
		kPa	c		kPa	°C	ļ			
	Cycles	Min, Pressure	@ Temp.	Cycles	Max. Pressure	@ Temp.	Test M	edium	Remarks	·
		psi			psi	°F				
		kPa	°C		kPakPa	°C	<u> </u>			
10. Initial commodity (or commodity type) ETHYLENE OXIDE(1). Flow rate (if applicable) N/A gpm ( L/min)										
A					ving Number	Precedent				
Applicable drawings				est revision	Drawing Number 110Y		Appli	cation/Certificate		
12. Device application			304/SS REV 0		V 0	1101				
13. Device assembly										
14. Device details										
15.										
ASSURE COMPLIANCE WITH ALL DRAWINGS AND SPECIFICATIONS.										
	VISIONS:								. 775 . 4	
CERTIFICATION: The above data is correct and conforms with AAR Specifications for Tank Cars, Appendix A. The devices tested conform with drawings listed above.										
By Harley Gray Jr. Verley And Title Vice President										
APPROVAL AAR Tank Car Committee OCT 0 7 2009 Date Approved										
			Date A	rbbrosea		(Signature)	on behal	f of Tan	k Car Committee	
Form AAR 4-5 Revised 12/1/2000 Subject to AAR Service Trial No										

Fig. 1.4 Form AAR 4-5 Application for Approval of Valves and Fittings (Click here to access a printable form)