## APPLICATION FOR APPROVAL OF VALVES AND FITTINGS

Applicant MIDLAND MANUFACTURING CORP. AAR No. E142002  Description of Device 4" BOTTOM OUTLET VALVE									
Applicant 1	No	Device	ce Ident. No	XA-541-XS-SJ, A-541-XS-	-SJ,A-541-XSDate_	4/24/2014	4		
Addres 2. Test fa 3. Test da	cility MIDLAND MAN	S POINT ROAD	ND GAYNES	LAB Addres 4. Observ	City SKOKIE State IL Zip 60077  Address SKOKIE, IL AND BRIDGEVIEW, IL  4. Observer ANDREAS GUERRA, YURY BEYDERMAN  5. Weight or mass of device 100 lb. ( kg)				
ON AS	ption of prototype test SEMBLY AT 100 PSIG, SH THE HIGHEST OUTPUT G	OCK TEST (20) SHOO LEVEL NOTED DURI	CKS AT 20G IN		TEST 1 MILLION CY	CLES AT TH	_		
	ption of production tes ESSURE TESTING AT 100		L, PACKING, C	OUTLET NOZZLE, CAP					
8. Cycles	Min. Temp.	@ PressurepsikPa	Cycles	Max. Temp.	@ PressurepsikPa	Test Medium		Remarks	
Cycles	Min. Temp.	@ Pressure	Cycles	Max. Temp.	@ PressurepsikPa	Test Medium		Remarks	
9. Cycles	Min. Pressure psi kPa	@ Temp,°F°C	Cycles	Max. Pressure psi kPa	@ Temp.	Test Medium		Remarks	
Cycles	Min. Pressure psi kPa	@ Temp.  —— °F °C	Cycles	Max. Pressure psi kPa	@ Temp° F°C	Test Medium		Remarks	
10. Initial	commodity (or commo	DISEL FA	TTY ESTERS, N ED OIL, SOYBEA	ITROGEN FERTILIZER N 014 1. Flow rate	(if applicable)		gpm	(L/min)	
Applicable drawings		Material		Drawing Number latest revision Drawing N		Precedent umber Application/Certificate			
<ul><li>12. Device application</li><li>13. Device assembly</li><li>14. Device details</li></ul>		CARBON STEEL, STAINLESS STEEL	XA-541-XS-SJ REV A A-541-XS-SJ, A-541-XS					E122015	
	control statement:								
REVISION CERTIFIC	CATION: The above	data is correct and orm with drawing							
APPROVA	L AAR Tank Car C		Approved_	SEP 02 20	14 / 2	meth	Da	ENGINEER  Car Committee	

Form AAR 4-5 Revised 12/1/2000 Subject to AAR Service Trial No.\_\_\_\_\_