## APPLICATION FOR APPROVAL OF VALVES, CLOSURES AND FITTINGS

Description of I	d Manufacturing Corp Device <u>2" Top Transfer</u>	Angle Valve for use as '	Vapor and Liquid	l Valves		No E282	1	
Applicant No		Device	Device Ident. No. A-721 Series			Date 3/15/2018		
1. Manufactu	rer Midland Manufac	turing Corp						
	Address 7733 Gross Point Rd			City Sko	kie	State L	Zip 60077	
	Test facility if other than the manufacturer Gaynes Lab Inc				Address Bridgeview IL			
				4. Observe	4. Observer See Supplemental			
				Title:				
TEST PROCE	EDURE: n of prototype test	ing: See supplemen	tal Information					
6. Cycles	Min. Temp.	@ Pressure	Cycles	Max. Temp.	@ Pressure	Test Medium	Remarks	
See Supplemental	•F	psi kPa		°F ℃	psi kPa			
Cycles	Min. Temp. °F	@ Pressure psi	Cycles	Max. Temp. °F	@ Pressure psi	Test Medium	Remarks	

kPa °C °C \_kPa Remarks Max. Temp. Test Medium Cycles Min. Temp. @ Pressure Cycles @ Pressure °F °F psi psi °C kPa °C kPa

7. Commodity: Regulated Commodity Non Regulated Commodity Specific Commodity VCM/AA/Mercaptan

8. Flow rate (if applicable) \_\_\_\_\_ gpm (\_\_\_\_\_L/min)

			Drawing Number	Precedent		
Applicable drawings		Material	latest revision	Drawing Number	Application/Certificate	
9.	Device application					
10.	Device assembly	Ductile Iron	A-721 REV M			
	Device details	See Supplemental				

12. Quality Control Statement MIDLAND IS CERTIFIED TO AAR M-1003 C4 AND C5 AND ISO 9001

12018

## **REVISIONS:**

**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 Khiem Q Hoang

Title Engineering Manager

APPROVAL AAR Tank Car Committee Service Trial Required

Date Approved for Service Trial <u>5/3</u> Service Trial Number <u>57 - 47</u>

(Signature) on behalf of Tank Car Committee

APPROVAL AAR Tank Car Committee Service Completed / Not Required 12/12/2023

Date Service Trial Completed

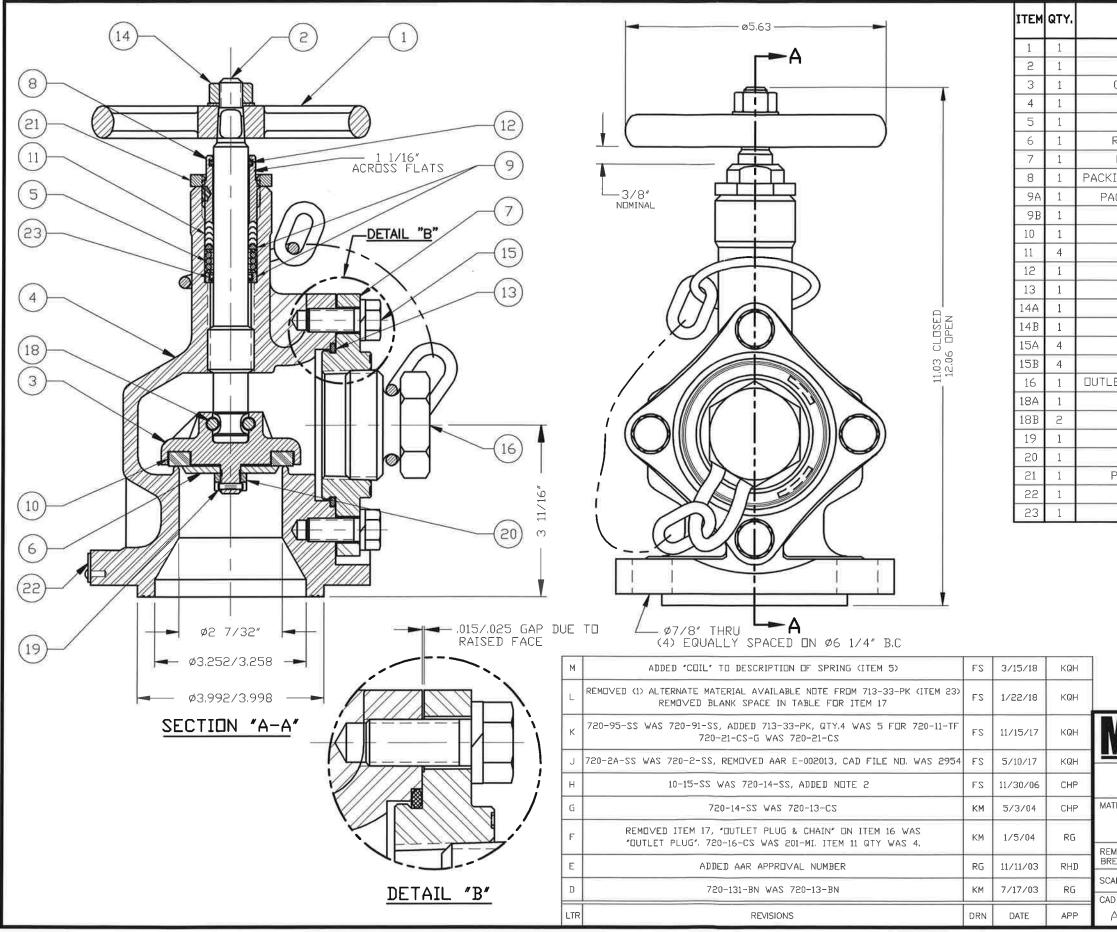
Date Approved 3/29/2024

Expiration Date5/31/2028

Kennet

(Signature) on behalf of Tank Car Committee

Form AAR 4-5 Revised 10/2014



	A-721						
DESCRIPTION	MATERIAL	PART No.					
HANDWHEEL	ALUMINUM (1)	720-1-AL					
STEM	STAINLESS	720-2A-SS					
GASKET RETAINER	STEEL	720-3-CS (2)					
BODY	DUCTILE IRON	721-4-DI					
SPRING, COIL	STAINLESS	720-5-SS					
RETAINER CO∨ER	STEEL	720-6-CS <b>(2)</b>					
DUTLET FLANGE	STEEL	720-71-CS					
ING SCREW W/INSERT	STEEL	720-8-CS					
ACKING WASHER TOP	STAINLESS	720-93-88					
SPACER	STAINLESS	720-95-88					
SEAT SEAL	TEFLON	720-10-TF (2)					
PACKING	TEFLON	720-11-TF					
STEM SEAL	BUNA-N (1)	720-12-BN					
"D" RING DUTLET	BUNA-N (1)	720-131-BN					
HANDWHEEL NUT	STAINLESS	10-15-SS					
WASHER	STEEL	308-12-CS					
BOLT	STAINLESS	724-15-88					
LOCK WASHER	STAINLESS	724-152-SS					
ET PLUG & CHAIN (1)	STEEL, PLATED	720-16-CS					
STEM RETAINER	STAINLESS	720-18-SS					
NUT	STAINLESS	720-181-SS					
PIN	STAINLESS	720-19-SS <b>(2)</b>					
RETAINER NUT	STEEL	720-20-CS <b>(2)</b>					
PACKING LOCK NUT	STEEL	720-21-CS-G					
NAMEPLATE	STAINLESS	721-22-55					
WIPER	PEEK	713-33-PK					
NOTES:							
1. ALTERNATE MAT							
2. FOR RETAINER ASSEMBLY CONSISTING OF ITEMS 3, 6, 10, 19 & 20,							
ORDER PART NO. 720-301-CS.							

MIDLAND MANUFACTURING CORP. skokie, il, u.s.a. 2" ANGLE VALVE MATERIAL: TOLERANCES UNLESS SPECIFIED:

SEE TABLE				2 PLACE DECIMAL ± .015 3 PLACE DECIMAL ± .015 ANGULAR ± 1', FRACTIONS ± 1/64 CHAMFERS AND WELD PREP ±5'		
MOVE ALL BURRS. EAK ALL EDGES & CORNERS.				FINISH (Ra) : √ =		
ale: 1/2	DRAWN: KM DAT		E: 12/22/98	APPROVED: R	HD	
D FILE NO. A-721	size B	DWG NO.		A-721		rev M