

# APPLICATION FOR RENEWAL OF APPROVAL FOR VALVES AND FITTINGS

1. AAR APPROVAL No. PRD-207033  
 2. Date of Application 7/10/2020  
 3. Previous AAR Approval PRD-107010

4. Applicant: McKenzie Valve & Machining LLC  
 5. Address: 145 Airport Road, McKenzie, TN 38201  
 6. Drawing No. See #12 7. Latest rev. See #12 8. Date of latest rev. See #12  
 9. Description of device: 75 psig Pressure Relief Valve, CS 10. Device ID No. See Attached Table

**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>92420</u> Rev. <u>E</u> Date <u>7/8/2008</u>	No. <u>92420</u> Rev. <u>G</u> Date <u>7/26/2017</u>	S.T. No. <u>n/a</u>
No. _____ Rev. _____ Date _____	No. _____ Rev. _____ Date _____	S.T. No. <u>n/a</u>
No. _____ Rev. _____ Date _____	No. <u>See Attached Table for New Drawings</u>	S.T. No. <u>n/a</u>

13. New drawing supersedes previous one  or does not obsolete it

**CHANGES**


**REASONS FOR CHANGES**

14. a. <u>See the attached table.</u> b. _____ c. _____ d. _____ (if needed use supplemental sheet)	a. <u>See the attached table.</u> b. _____ c. _____ d. _____
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15. Normal operational effect of changes of device: None

16. Drawing submitted with this application: All drawings listed in the attached table.

**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: Roger Danzy  Title: Product Engineer

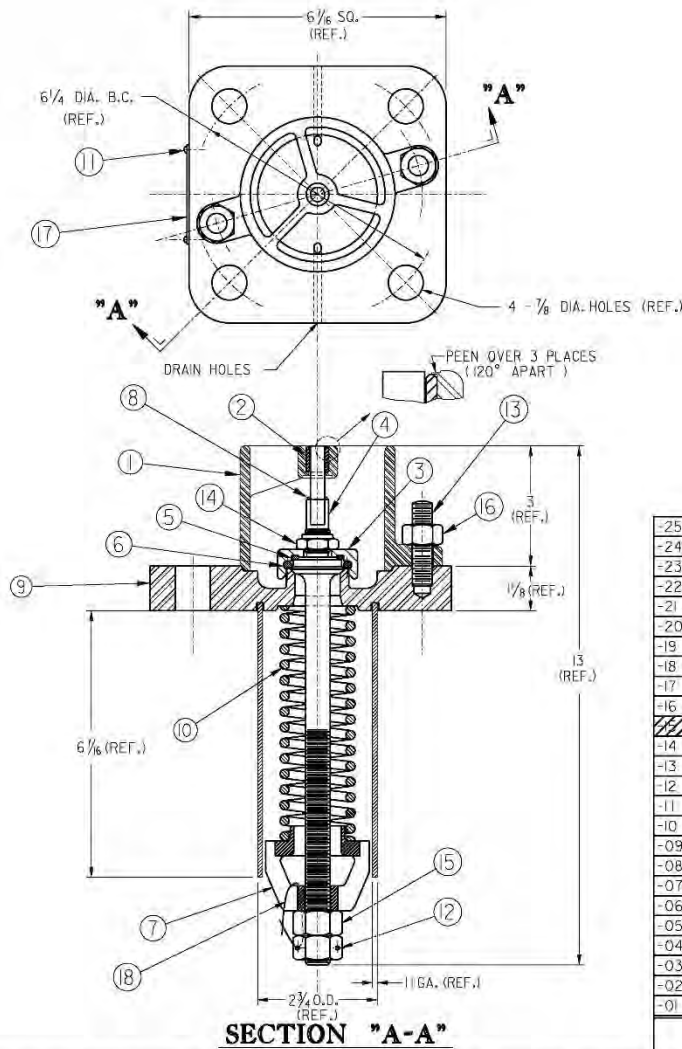
APPROVAL AAR Tank Car Committee:

Date Approved: 9/14/2020

  
 \_\_\_\_\_  
 (Signature) on behalf of Committee

Updates to Approved Drawings					
Drawing	Device ID / Model No.	Rev.	Date	Changes	Reason for Changes
92420	SRV-I075A-CSCS-F1	E	7/8/2008	N/A - Approved on Previous Application	N/A
		F	7/28/2014	Changes in materials that are compatible with the intended commodity service - Added Line -23 to O-ring table	To meet customer requirements
		G	7/26/17	External Change – Symbol 14 Locknut. Updated Company Information in Title Block	Vendor Change. Company Information

New 75 psig CS PRV Assemblies					
Drawing	Device ID / Model No.	Rev.	Date	Changes	Reason for Changes
508490	SRV-I075A-CSCS-F3	A	8/26/2010	External Change - AAR Small Tongue Flange (Fig. E.19.16)	To meet customer requirements
508492	SRV-I075A-CSCS-F4	A	8/26/2010	External Change - AAR Large Tongue Flange (Fig. E.19.20)	To meet customer requirements
508554	SRV-I075A-CSCS-F2	A	2/2/2010	External Change - Flange bolting changed to 3/4" diameter holes on a 6.25 bolt circle	To meet customer requirements
		B	2/20/2020	Revised O-Ring Material for Line 20.	To standardize o-ring table to SRV-1075A-CSCS-F1



BILL OF MATERIAL					
SYM.	PART NO.	REQ.	DESCRIPTION	MATERIAL	WT. (LBS.)
1	15909-01	1	GUIDE TOP	CAST STEEL	4.38
2	15910-01	1	BUSHING	TEFLON (R)	.02
3	101148-01	1	CAP	STEEL	.31
4	101151-01	1	STEM	STAINLESS STEEL	1.14
5	SEE TABLE	1	"O"-RING #2-215	SEE TABLE	--
6	SEE TABLE	1	"O"-RING #2-323	SEE TABLE	--
7	15966-01	1	FOLLOWER, SPRING	STEEL	.56
8	208-7331	1	"O"-RING #2-012	BUNA 'N'	--
9	503166-04	1	SAFETY VALVE FLANGE S/A	STEEL	12.7
10	26386-04	1	SPRING	STEEL	1
11	304-8745	2	SIZE #2 RD. HD. DRIVE SCREW, TYPE U, 1/4 LG.	STAINLESS STEEL	.02
12	24178-03	1	NUT, HVY. HEX, 5/8-11UNC - 2B S.F. W/HOLES	ASTM A194 GR. 6F	.12
13	101214-01	2	STUD, 1/2-13 UNC - 2A X 2 LG.	STEEL	.2
14	304-8639	1	NUT, LOCK 3/8 ESNA NTE-108 OR EQUAL	STEEL	.04
15	304-7091	1	NUT, HVY. HEX, 5/8-11 UNC-2B S.F.	ASTM A194 GR. 6F	.12
16	304-7030	2	NUT, HVY. HEX, 1/2-13 UNC - 2B S.F.	STEEL	.14
17	17387-45	1	IDENTIFICATION PLATE	STAINLESS STEEL	--
18	305-8425	1	SEAL WIRE & DISC	STAINLESS STEEL & LEAD	--

FLOW RATE = 1202 SCFM @ 85 PSIG

LINE	SYM #5 PART No.	SYM #6 PART No.	SYM #5&6 MATERIAL	SYM #11 PART No.
-25	CS4560	208-0776	208-0777	CS 4560
-24	EPWFG	108-20156	108-20157	WHITE FOOD GRADE EPDM
-23	SZ7295	108-20135	108-20136	SIMRIZ 7295
-22	CS5350	208-16041	208-16042	CS5350
-21	9703	208-16039	208-16040	PA19703
-20	CSEP787	208-16037	208-16038	CS EP787
-19	CS4273	208-16031	208-16032	CS 4273
-18	VF	208-16028	208-16029	VITON®F
-17	BU	208-9672	208-9673	BUTYL RUBBER
-16	BNWFG	208-16055	208-16056	WHITE FOOD GRADE BUNA-N
-15	DUPT	208-16051	208-16052	DUPONT CERTIFIED VITON®B
-14	VB-C	208-16051	208-16050	DUPONT CERTIFIED VITON®B
-13	KZ6375	208-7301	208-7302	KALREZ 6375
-12	CZ505	308-9857	308-7318	CHEMRAZ 505
-11	VB	208-19992	208-19993	VITON® B
-10	VETP	208-16008	208-16012	VITON EXTREME FEP
-09	VGFS	208-16007	208-16011	VITON®GF-S
-08	CS5355	208-16006	208-16010	CS5355
-07	CS4273B	208-16005	208-16009	CS4273B
-06	VGFLT	208-19989	208-19990	VITON® GFLT
-05	NE	308-7333	308-7334	NEOPRENE BLACK
-04	EP	208-7323	208-7328	EPDM - PC
-03	BN	208-7324	208-7329	BUNA 'N'
-02	NEW	208-7322	208-7327	FOOD GRADE NEOPRENE
-01	VA	208-7321	208-7326	VITON® 'A'

DRAWING NO. 92420

NOTES:

- ASSEMBLE AND TEST PER ES 41-68.
- SPRING MATERIAL IS NOT SUITABLE FOR AMMONIA SERVICE.

CROSS REFERENCE:

FOR STAINLESS STL. VALVE S/A SEE DRAWING No. 92534

**MCKENZIE VALVE & MACHING LLC**  
 15 AIRPORT RD.  
 MCKENZIE, TN 38201

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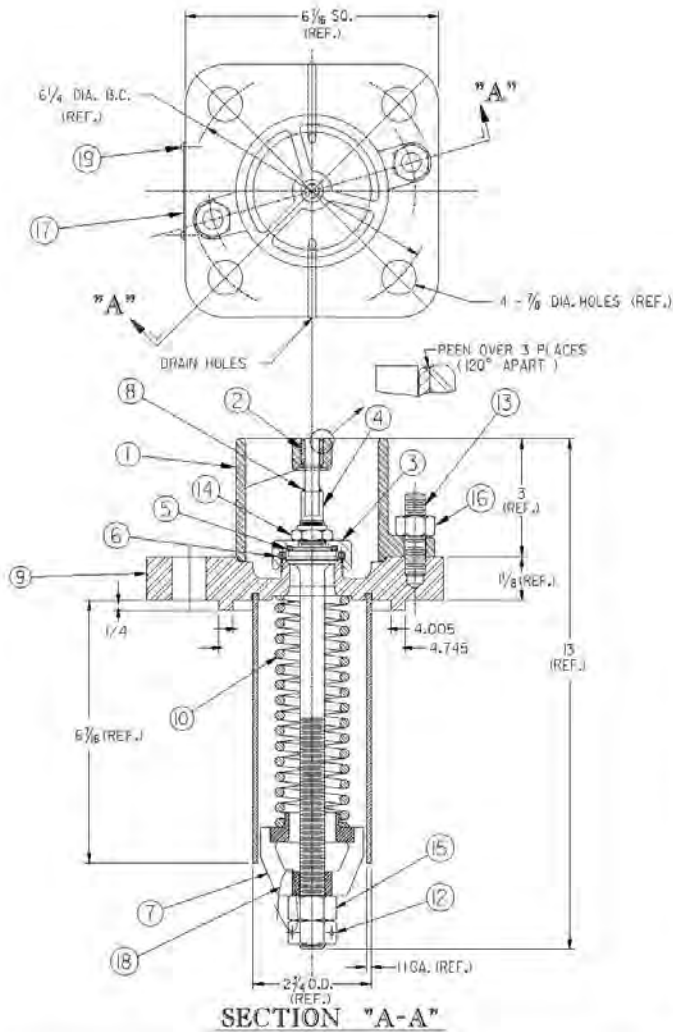
VALVE S/A, 15# CS SAFETY RELIEF SRV-1075A-CSCS-F1-ELASTOMER

DRAWN BY	DATE	SCALE	HEAT	DRAWN
WTC	1/8/90	HALF	210#	CARL
WELDING	N/A	N/A	PCA	92420
ENG.	N/A	N/A	PRODUCT	

ENGINEERING APPROVALS

REVISION	A	B	C	D	E	F	G
DATE	8/1/91	06 SEP 2002	08 SEP 2002	3 JULY 2002	28 JUL 2004	28 JUL 2004	26 JUL 2017
DRAWN	WTC	JLK	NJS	BP	MAK	TS	DRG
DESIGN	WTC	JLK	NJS	BP	MAK	TS	DRG
CHECKED	PCA	TW	BP	GC	JLK	TJS	WRB
ENGR.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PRODUCT ENG.	PCA	BP	LL	BP	NM	TJS	WRB

LINE 01, SYM. #5, PART. NO. 15909-01 WAS REVISED TO 15909-01. PART NO. WAS 15909-01. LINE 02, SYM. #5, PART. NO. 15910-01 WAS REVISED TO 15910-01. PART NO. WAS 15910-01. LINE 03, SYM. #5, PART. NO. 101148-01 WAS REVISED TO 101148-01. PART NO. WAS 101148-01. LINE 04, SYM. #5, PART. NO. 101151-01 WAS REVISED TO 101151-01. PART NO. WAS 101151-01. LINE 05, SYM. #5, PART. NO. 15966-01 WAS REVISED TO 15966-01. PART NO. WAS 15966-01. LINE 06, SYM. #5, PART. NO. 503166-04 WAS REVISED TO 503166-04. PART NO. WAS 503166-04. LINE 07, SYM. #5, PART. NO. 26386-04 WAS REVISED TO 26386-04. PART NO. WAS 26386-04. LINE 08, SYM. #5, PART. NO. 304-8745 WAS REVISED TO 304-8745. PART NO. WAS 304-8745. LINE 09, SYM. #5, PART. NO. 24178-03 WAS REVISED TO 24178-03. PART NO. WAS 24178-03. LINE 10, SYM. #5, PART. NO. 101214-01 WAS REVISED TO 101214-01. PART NO. WAS 101214-01. LINE 11, SYM. #5, PART. NO. 304-8639 WAS REVISED TO 304-8639. PART NO. WAS 304-8639. LINE 12, SYM. #5, PART. NO. 304-7091 WAS REVISED TO 304-7091. PART NO. WAS 304-7091. LINE 13, SYM. #5, PART. NO. 304-7030 WAS REVISED TO 304-7030. PART NO. WAS 304-7030. LINE 14, SYM. #5, PART. NO. 17387-45 WAS REVISED TO 17387-45. PART NO. WAS 17387-45. LINE 15, SYM. #5, PART. NO. 305-8425 WAS REVISED TO 305-8425. PART NO. WAS 305-8425.



BILL OF MATERIAL					
SYM.	PART NO.	REQ.	DESCRIPTION	MATERIAL	WT. (LBS.)
1	15909-01	1	GUIDE TOP	SAFETY STEEL	4.38
2	15910-01	1	BRUSHING	TEFLON (R)	.02
3	10148-01	1	CAP	STEEL	.31
4	10151-01	1	STEM	STAINLESS STEEL	1.04
5	SEE TABLE	1	O-RING #2-215	SEE TABLE	--
6	SEE TABLE	1	O-RING #2-323	SEE TABLE	--
7	15966-01	1	FOLLOWER, SPRING	STEEL	.56
8	208-7331	1	O-RING #2-012	BLUNA "N"	--
9	503166-06	1	SAFETY VALVE FLANGE S/A	STEEL	13
10	26386-04	1	SPRING	STEEL	1
11					
12	24178-03	1	NUT, HVY. HEX., 3/8-11UNC - 2B S.F. W/HOLES	ASTM A193 GR. 9	.12
13	10124-01	2	STUD, 1/2-13 UNC - 2A X 2 LG.	STEEL	.2
14	304-8591	1	NUT, LOCK 3/8 ESNA #52 NTE-10B OR EQUAL	STEEL	.04
15	304-7091	1	NUT, HVY. HEX., 3/8-11 UNC - 2B S.F.	ASTM A193 GR. 9	.12
16	304-7030	2	NUT, HVY. HEX., 1/2-13 UNC - 2B S.F.	STEEL	.14
17	17387-45	1	IDENTIFICATION PLATE	304 STAINLESS STEEL	--
18	305-8425	1	SEAL WIRE & DISC	STAINLESS STEEL 1/16"	--
19	304-8745	2	SIZE #2 RD. HD. DRIVE SCREW, TYPE U, 1/4 LG.	STEEL	.02
20					

FLOW RATE = 1202 SCFM @ 85 PSIG

DRAWING NO. 508490

19	208-16031	208-16032	CS 4273
18	208-16028	208-16029	VITON® F
17	208-9672	208-9673	BUTYL RUBBER
16	208-16055	208-16056	WHITE FOOD GRADE BLUNA-N
15	208-16053	208-16054	FOOD GRADE BLUNA-N
14	208-16051	208-16050	DUPONT CERTIFIED VITON® B
13	208-7301	208-7302	KALREZ® 6376
12	308-9857	308-7318	CHEMRAZ® 505
11	208-19992	208-19993	VITON® B
10	208-16008	208-16012	VITON® EXTREME FTE
9	208-16007	208-16011	VITON® GF-S
8	208-16006	208-16010	CS5355
7	208-16005	208-16009	CS4273B
6	208-19989	208-19990	VITON® CFLT
5	308-7333	308-7334	NEOPRENE BLACK
4	208-7323	208-7328	EPDM - PIC
3	208-7324	208-7329	BLUNA "N"
2	208-7322	208-7327	FOOD GRADE NEOPRENE
1	208-7321	208-7326	VITON® "A"

NOTES:

1. ASSEMBLE AND TEST PER ES 92420.
2. SPRING MATERIAL IS NOT SUITABLE FOR AMMONIA SERVICE.

CROSS REFERENCE:

FOR FLAT FACE, SEE 92420  
FOR LARGE TORQUE, SEE 508492  
FOR STAINLESS VALVE, SEE 508491

REVISION	DATE	BY	CHKD	APP'D	GENERAL ISSUE
A	26 AUG 2010	DJP	DJP		
		DHP			
		N/A			
		DHP			

DEFAULT TOLERANCES - S/A DIMING  
ALL DIMENSIONS ARE UNLESS OTHERWISE NOTED  
FUNCTIONAL DIMENSIONS ± .01  
ANGULAR DIMENSIONS ± .1°

**UTLX** UNION TANK CAR COMPANY  
WE ARE AMMONIA AND SULFURIC ACID SERVICE READY

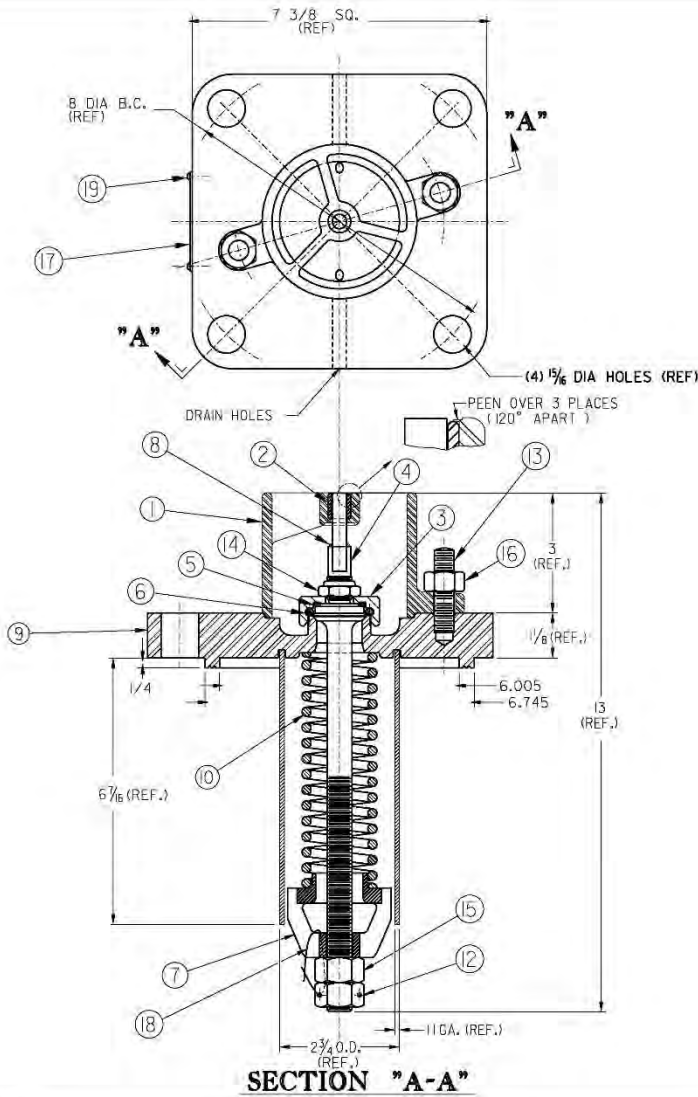
LATEST REVISION

VALVE S/A SAFETY RELIEF 75" CS

DESIGN BY	DATE	SCALE	REVISION	ISSUED
DJP	8/26/10	HALF	2134	DHP
N/A	N/A	N/A	DHP	
			PRODUCT	

508490

DRAWING NO. 508490



BILL OF MATERIAL					
SYM.	PART NO.	REQ.	DESCRIPTION	MATERIAL	WT. (LBS.)
1	15909-01	1	GUIDE TOP	CAST STEEL	4.38
2	15910-01	1	BUSHING	TEFLON (R)	.02
3	10149-01	1	CAP	STEEL	.31
4	01051-01	1	STEM	STAINLESS STEEL	1.14
5	SEE TABLE	1	O-RING #2-215	SEE TABLE	~
6	SEE TABLE	1	O-RING #2-323	SEE TABLE	~
7	15966-01	1	FOLLOWER, SPRING	STEEL	.56
8	208-7331	1	O-RING #2-012	BUNA 'N'	~
9	503166-08	1	SAFETY VALVE FLANGE S/A	STEEL	.19
10	26386-04	1	SPRING	STEEL	1
11					
12	24178-03	1	NUT, HVY. HEX. 5/8-11UNC - 2B S.F. W/HOLES	ASTM A194 OR 6F	.12
13	10124-01	2	STUD, 1/2-13 UNC - 2A X 2 LG.	STEEL	.2
14	304-8597	1	NUT, LOCK 5/8 ESNA #52 NTE-108 OR EQUAL	STEEL	.04
15	304-7091	1	NUT, HVY. HEX., 5/8-11 UNC-2B S.F.	ASTM A194 OR 6F	.12
16	304-7030	2	NUT, HVY. HEX., 1/2-13 UNC - 2B S.F.	STEEL	.14
17	17387-45	1	IDENTIFICATION PLATE	STAINLESS STEEL	~
18	305-8425	1	SEAL WIRE & DISC	STAINLESS STEEL & LEAD	~
19	304-8745	2	SIZE #2 RD. HD. DRIVE SCREW . TYPE U, 1/4 LG.	STAINLESS STEEL	.02
20					

FLOW RATE = 1202 SCFM @ 85 PSIG

25	208-0776	208-0777	CS 4560
24	108-20156	108-20157	WHITE FOOD GRADE EPDM
23	108-20135	108-20136	SIMRIZ 7295
22	208-16041	208-16042	CS 5350
21	208-16039	208-16040	PAI 9703
20	208-16037	208-16038	CS EP787
19	208-16031	208-16032	CS 4273
18	208-16028	208-16029	VITON® F
17	208-9672	208-9673	BUTYL RUBBER
16	208-16055	208-16056	WHITE FOOD GRADE BUNA-N
15	208-16053	208-16054	FOOD GRADE BUNA-N
14	208-16051	208-16050	DUPONT CERTIFIED VITON® F
13	208-7301	208-7302	KALREZ 6375
12	308-9857	308-7318	CHEMRAZ 505
11	208-19992	208-19993	VITON® B
10	208-16008	208-16012	VITON® EXTREME FPD
9	208-16007	208-16011	VITON® GF-5
8	208-16006	208-16010	CS5355
7	208-16005	208-16009	CS4273B
6	208-19989	208-19990	VITON® GFLT
5	308-7333	308-7334	NEOPRENE BLACK
4	208-7323	208-7328	EPDM - PC
3	208-7324	208-7329	BUNA 'N'
2	208-7322	208-7327	FOOD GRADE NEOPRENE
1	208-7321	208-7326	VITON® 'A'

DRAWING NO. 508492

NOTES:

- ASSEMBLE AND TEST PER ES 41-68.
- SPRING MATERIAL IS NOT SUITABLE FOR AMMONIA SERVICE.

CROSS REFERENCE:

FOR FLAT FACE, SEE 92420.  
FOR SMALL TONGUE, SEE 508490  
FOR STAINLESS VALVE, SEE 508493

REVISION	A	DATE	26 AUG 2020
DRAWN	DHP	DATE	8/26/20
CHKD	DHP	SCALE	HALF
ENG'D	N/A	WGT	27.3
PRODUCT	DHP	CHECKED	DHP

ORIGINAL ISSUE

DEFAULT TOLERANCES - S/A DRAWING  
ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED  
FRACTIONAL DIMENSIONS: 1/16"  
ANGULAR DIMENSIONS: 1°

**UTLX** UNION TANK CAR COMPANY  
101 ST. & HOLLAND AVE. EAST CINCINNATI, OHIO 45202

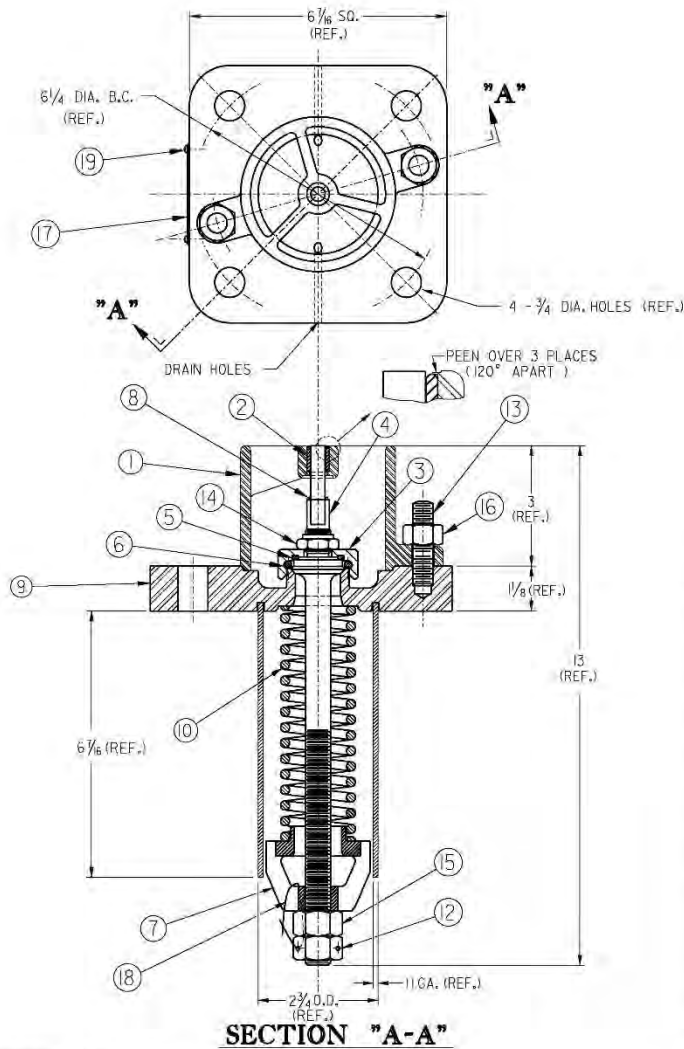
THE TANK CAR PEOPLE

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VALVE S/A SAFETY RELIEF 75#, CS, LARGE TONGUE

DESIGNED BY	DATE	SCALE	WGT	CHECKED
DP	8/26/20	HALF	27.3	DHP
N/A	N/A	N/A	N/A	N/A
DELIVERED	N/A	PRODUCT	508492	DHP

ENGINEERING APPROVALS: \_\_\_\_\_ DRAWING NO. 508492



BILL OF MATERIAL					
SYM.	PART NO.	REQ.	DESCRIPTION	MATERIAL	WT. (LBS.)
1	15909-01	1	GUIDE TOP	EAST STEEL	4.38
2	15910-01	1	BUSHING	TEFLON (R)	.02
3	10148-01	1	CAP	STEEL	.31
4	10151-01	1	STEM	STAINLESS STEEL	1.14
5	SEE TABLE	1	'O'-RING #2-215	SEE TABLE	---
6	SEE TABLE	1	'O'-RING #2-323	SEE TABLE	---
7	15966-01	1	FOLLOWER, SPRING	STEEL	.56
8	208-7331	1	'O'-RING #2-012	BUNA 'N'	---
9	503166-10	1	SAFETY VALVE FLANGE S/A	STEEL	13
10	26386-04	1	SPRING	STEEL	1
11					
12	24178-03	1	NUT, HVY. HEX, 3/8-11UNC - 2B S.F. W/HOLES	ASTM A194 GR. 6F	.12
13	10124-01	2	STUD, 1/2-13 UNC - 2A X 2 LG.	STEEL	.12
14	304-8597	1	NUT, LOCK 3/8 ESNA #52 NTE-10B OR EQUAL	STEEL	.04
15	304-7091	1	NUT, HVY. HEX, 5/8-11 UNC-2B S.F.	ASTM A194 GR. 6F	.12
16	304-7030	2	NUT, HVY. HEX, 1/2-13 UNC - 2B S.F.	STEEL	.14
17	17387-45	1	IDENTIFICATION PLATE	STAINLESS STEEL	---
18	305-8425	1	SEAL WIRE & DISC	STAINLESS STEEL & LEAD	---
19	304-8745	2	SIZE #2 RD. HD. DRIVE SCREW, TYPE U, 1/4 LG.	STAINLESS STEEL	.02
20					

FLOW RATE = 1202 SCFM @ 85 PSIG

25	208-0776	208-0777	CS 4560
24	108-20156	108-20157	WHITE FOOD GRADE EPDM
23	108-20135	108-20136	SIMRIZ 7295
22	208-16041	208-16042	CS 5350
21	208-16039	208-16040	PA19703
20	208-16037	208-16038	CS EP787
19	208-16031	208-16032	CS 4273
18	208-16028	208-16029	VITON® F
17	208-9672	208-9673	BUTYL RUBBER
16	208-16055	208-16056	WHITE FOOD GRADE BUNA-N
15	208-16053	208-16054	FOOD GRADE BUNA-N
14	208-16051	208-16050	DUPONT CERTIFIED VITON® A
13	208-7301	208-7302	KALREZ 6375
12	308-9857	308-7318	CHEMRAZ 505
11	208-19992	208-19993	VITON® B
10	208-16008	208-16012	VITON® EXTREME FTP
9	208-16007	208-16011	VITON® GF-S
8	208-16006	208-16010	CS5355
7	208-16005	208-16009	CS4273B
6	208-19989	208-19990	VITON® GFLT
5	308-7333	308-7334	NEOPRENE BLACK
4	208-7323	208-7328	EPDM - PC
3	208-7324	208-7329	BUNA 'N'
2	208-7322	208-7327	FOOD GRADE NEOPRENE
1	208-7321	208-7326	VITON® 'A'
LINE	SYM #5 PART No.	SYM #6 PART No.	SYM #5&6 MATERIAL

DRAWING NO. 508554

NOTES:

1. ASSEMBLE AND TEST PER ES 4I-68.
2. SPRING MATERIAL IS NOT SUITABLE FOR AMMONIA SERVICE.

CROSS REFERENCE:

FOR FLAT FACE, 7/8 HOLES, SEE 92420  
 FOR SMALL TONGUE, SEE 508491  
 FOR LARGE TONGUE, SEE 508493  
 FOR STAINLESS VALVE, SEE 508553

REVISION	A	B
DATE	02 FEB 2020	20 FEB 2020
DRAWN	DP	DH
CDL NO.	GEN 03-01	LATEST REVISION
CHECKED	DHP	CCR
ISS ENG'D	N/A	N/A
PRODUCT ENG'G	DHP	RDD

IN LINE 20: SYM #5 WAS 208-0776, AND MATERIAL WAS CS 4560.

DEFAULT TOLERANCES - S/A DRAWING  
 ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED  
 FRACTIONAL DI MENSURINGS ± 1/16  
 ANGULAR DI MENSURINGS ± 1°

MCKENZIE VALVE & MACHINING LLC  
 113 AIRPORT RD.  
 MCKENZIE, TN 37203  
 LATEST REVISION

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VALVE S/A  
 SAFETY RELIEF  
 75#, CS, FF, 3/4" HOLES

DRAWN BY	DATE	SCALE	HEIGHT	CHECKED
DP	02/25/20	HALF	21.3"	DHP
N/A	N/A	N/A	DHP	508554
REVISION	REV.	PRODUCT	DRAWING NO.	

ENGINEERING APPROVALS

508554