IMPLEMENTED 03/2021

APPLICATION FOR RENEWAL OF APPROVAL FOR PRESSURE RELIEF DEVICES, VALVES, CLOSURES, AND FITTINGS

1. AAR APPROVAL No. E222103
2. Date of Application 3-29-2022
3. Previous AAR Approval E-129501

4. Applicant: Crane CPE
5. Address: 4444 Cooper Road, Cincinnati, OH 45242
6. Drawing No. 26H900112000 7. Latest rev. -C 8. Date of latest rev. 10-27-2017
9. Description of device: Lined Ball Valve (Full Port) 10. Device ID No. XLB12A

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: Front End Operations Manager

If device is **changed** since latest approval, fill in the following blanks

12. Reference Previous Drawing	New Drawing	If on Service Trial
No.____ Rev.___ Date____	No.____ Rev.___ Date____	S.T. No.____
No.____ Rev.___ Date____	No.____ Rev.___ 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.	a.
	b.	b.
	c.	c.
	d.	d.

(if needed use supplemental sheet)

15. Normal operational effect of changes of device: _____

16. Drawing submitted with this application: _____

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: _____ Title: _____

APPROVAL AAR Tank Car Committee:

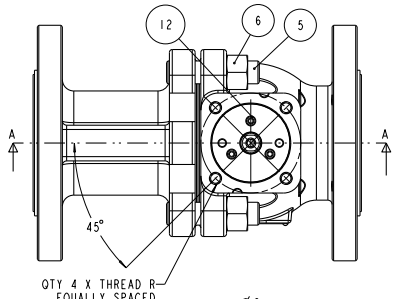
Date Approved: 5/11/2022 Kenneth B Dorsey

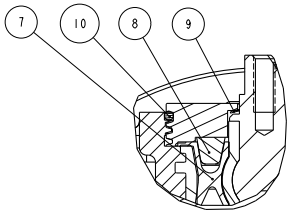
(Signature) on behalf of Committee

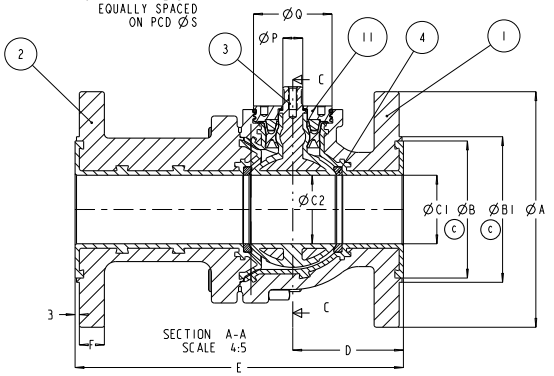
Form AAR 4-7 8/1/2014

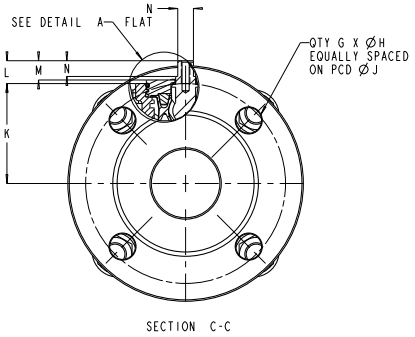
Fig. 1.5 Form AAR 4-7 Application for Renewal of Approval for Pressure Relief Devices, Valves, Closures, and Fittings

REV.	PCO #	DESCRIPTION	BY	CHK	APP / DATE
-A	K2/006/2011	Format changed. Dim in inch are added DN32 size eliminated	skona 08/03/11	rmand 08/03/11	tcsehovics 08/03/11
-B	K2/009/2011	XLB Type added	skona 11/04/11	rmand 11/04/11	tcsehovics 11/04/11
-C	K2/004/2017	ØB modified. ØB1 added. Material column added.	amora 27/10/17	skona 27/10/17	tcsehovics 27/10/17

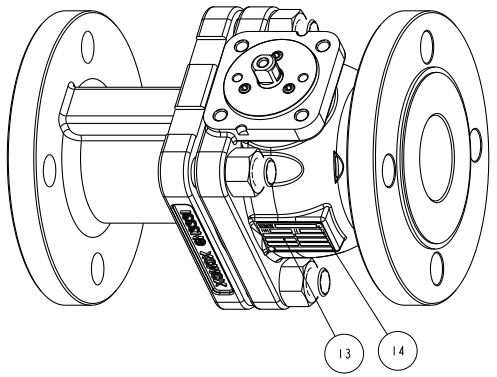


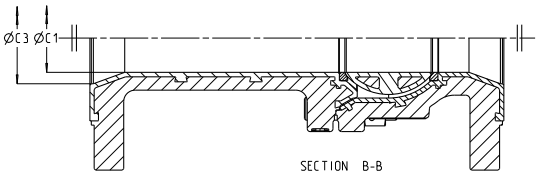






POS	DESCRIPTION	QTY	MATERIAL
1	BODY LINED MACHINED	1	DI EN-JS 1049/ASTM A395 60-40-18. PFA. PFA-AS. PVDF Lined
2	TAIL LINED MACHINED	1	DI EN-JS 1049/ASTM A395 60-40-18. PFA. PFA-AS. PVDF Lined
3	INTEGRAL BALL STEM LINED MACHINED	1	1.4470/ASTM A995-4A. PFA Lined
4	SEAT	2	PTFE
5	STUD	4	EN-JIS A4-70. ASTM A193 Grade B7
6	NUT BODY JOINT	4	EN-JIS A4-70. A194 Grade 2H
7	SX-SEAL	1	PTFE
8	WEDGE RING	1	1.4541 / AISI 321 SS
9	ANTISTATIC SPRING	1	17-7 PH SS
10	COVER SEAL	1	FKM
11	COVER	1	1.4541 / AISI 321 SS
12	SET SCREW	3	1.4301 / AISI 304 SS
13	LABEL	1	1.4301 AISI304-SS
14	LABEL TAG	2	1.4301 AISI304-SS





VIEW FOR REDUCED PORT XLB42

TYPE	DESCRIPTION	ØA	ØB	ØB1	ØC1	ØC2	ØC3	D	E	F	G	ØH	ØJ	K	L	M	N	ØP	ØQ	R	ØS
XLB13	1/2 inch ANSI LP	90 3.543	34.9 1.374	38.9 1.531	15 0.590	23 0.906	NA	55.3 2.177	130 5.118	14 0.551	4	1/2-13UNC	60.3 2.374	48 1.890	14 0.551	11.5 0.453	9 0.354	12 0.472	35 1.378	M6	50 1.968
XLB13	3/4 inch ANSI LP	100 3.937	42.9 1.688	46.9 1.846	20 0.787	23 0.906	NA	55.3 2.177	150 5.906	16 0.630	4	1/2-13UNC	69.9 2.752	48 1.890	14 0.551	11.5 0.453	9 0.354	12 0.472	35 1.378	M6	50 1.968
XLB12	1 inch ANSI SP	110 4.331	50.8 2	56.8 2.236	23 0.906	23 0.906	NA	54.3 2.138	127 5.000	12.7 0.500	4	16 0.630	79.4 3.126	48 1.890	14 0.551	11.5 0.453	9 0.354	12 0.472	35 1.378	M6	50 1.968
XLB13	1 Inch ANSI LP	110 4.331	50.8 2	56.8 2.236	23 0.906	23 0.906	NA	54.3 2.138	152 5.984	12.7 0.500	4	16 0.630	79.4 3.126	48 1.890	14 0.551	11.5 0.453	9 0.354	12 0.472	35 1.378	M6	50 1.968
XLB42	1-1/2 inch ANSI SP RP	125 4.921	73 2.874	79 3.110	23 0.906	23 0.906	37 1.457	54.3 2.138	165 6.496	16 0.630	4	16 0.630	98.4 3.874	48 1.890	14 0.551	11.5 0.453	9 0.354	12 0.472	35 1.378	M6	50 1.968
XLB12	1-1/2 inch ANSI SP	125 4.921	73 2.874	79 3.110	37 1.457	37 1.457	NA	70 2.756	165 6.496	16 0.630	4	16 0.630	98.4 3.874	62 2.441	16 0.630	13.5 0.531	11 0.433	14 0.551	55 2.165	M8	70 2.756
XLB13	1-1/2 inch ANSI LP	125 4.921	73 2.874	79 3.110	37 1.457	37 1.457	NA	70 2.756	178 7.008	16 0.630	4	16 0.630	98.4 3.874	62 2.441	16 0.630	13.5 0.531	11 0.433	14 0.551	55 2.165	M8	70 2.756
XLB42	2 inch ANSI SP RP	150 5.906	92.1 3.625	98.1 3.862	37 1.457	37 1.457	48 1.900	70 2.756	178 7.008	17.5 0.689	4	19 0.748	120.7 4.752	62 2.441	16 0.630	13.5 0.531	11 0.433	14 0.551	55 2.165	M8	70 2.756
XLB12	2 inch ANSI SP	150 5.906	92.1 3.625	98.1 3.862	48 1.890	48 1.890	NA	77.5 3.051	178 7.008	17.5 0.689	4	19 0.748	120.7 4.752	70 2.756	16 0.630	13.5 0.531	11 0.433	14 0.551	55 2.165	M8	70 2.756
XLB13	2 inch ANSI LP	150 5.906	92.1 3.625	98.1 3.862	48 1.890	48 1.890	NA	77.5 3.051	203 7.992	17.5 0.689	4	19 0.748	120.7 4.752	70 2.756	16 0.630	13.5 0.531	11 0.433	14 0.551	55 2.165	M8	70 2.756
XLB42	3 inch ANSI SP RP	190 7.480	127 5.000	133 5.236	48 1.890	48 1.890	75 2.953	82.3 3.240	203 7.992	22.3 0.878	4	19 0.748	152.4 6.000	70 2.756	16 0.630	13.5 0.531	11 0.433	14 0.551	55 2.165	M8	70 2.756
XLB12	3 inch ANSI SP	190 7.480	127 5.000	133 5.236	75 2.953	75 2.953	NA	85.5 3.366	203 7.992	22.3 0.878	4	19 0.748	152.4 6.000	100 3.937	22 0.866	19.5 0.768	17 0.670	22 0.866	70 2.756	M10	102 4.016
XLB13	3 inch ANSI LP	190 7.480	127 5.000	133 5.236	75 2.953	75 2.953	NA	85.5 3.366	241 9.488	22.3 0.878	4	19 0.748	152.4 6.000	100 3.937	22 0.866	19.5 0.768	17 0.670	22 0.866	70 2.756	M10	102 4.016
XLB42	4 inch ANSI SP RP	230 9.055	157.2 6.189	163.2 6.425	75 2.953	75 2.953	98 3.858	97.5 3.839	228 8.976	22.3 0.878	8	19 0.748	190.5 7.500	100 3.937	22 0.866	19.5 0.768	17 0.670	22 0.866	70 2.756	M10	102 4.016
XLB12	4 inch ANSI SP	230 9.055	157.2 6.189	163.2 6.425	98 3.858	98 3.858	NA	98.3 3.870	229 9.016	22.3 0.878	8	19 0.748	190.5 7.500	126 4.961	22 0.866	19.5 0.768	17 0.670	22 0.866	70 2.756	M10	102 4.016
XLB13	4 inch ANSI LP	230 9.055	157.2 6.189	163.2 6.425	98 3.858	98 3.858	NA	98.3 3.870	292 11.496	22.3 0.878	8	19 0.748	190.5 7.500	126 4.961	22 0.866	19.5 0.768	17 0.670	22 0.866	70 2.756	M10	102 4.016
XLB42	6 inch ANSI SP RP	280 11.024	214.9 8.461	220.9 8.697	98 3.858	98 3.858	145 5.709	99 3.900	267 10.512	24 0.945	8	23 0.906	241 9.488	126 4.961	22 0.866	19.5 0.768	17 0.670	22 0.866	70 2.756	M10	102 4.016
XLB12	6 inch ANSI SP	280 11.024	214.9 8.461	220.9 8.697	145 5.709	145 5.709	NA	129.4 5.094	267 10.512	23.9 0.941	8	23 0.906	241 9.488	155 6.102	27 1.063	24.5 0.965	22 0.866	28 1.102	85 3.346	M12	125 4.921
XLB13	6 inch ANSI LP	280 11.024	214.9 8.461	220.9 8.697	145 5.709	145 5.709	NA	129.4 5.094	356 14016	23.9 0.941	8	23 0.906	241 9.488	155 6.102	27 1.063	24.5 0.965	22 0.866	28 1.102	85 3.346	M12	125 4.921
XLB42	8 inch ANSI SP RP	343 13.504	269.9 10.626	275.9 10.862	145 5.709	145 5.709	198 7.795	128.4 5.055	292 11.496	27 1.063	8	22.2 0.874	298.4 11.748	155 6.102	27 1.063	24.5 0.965	22 0.866	28 1.102	85 3.346	M12	125 4.921

DO NOT SCALE DRAWING

ALL DIMENSIONS IN INCHES

TOLERANCES. UNLESS OTHERWISE SPECIFIED :

.XX ±.03
.XXX ±.010
ANGULAR ±0°30'

XOMOX® CRANE CHEMPHARMA FLOW SOLUTIONS
TUFLINE® 4444 COOPER ROAD CINCINNATI, OHIO 45242

SIZE	CLASS	FIGURE NO.	SCALE
---	---	XLB	4:5

DWN	skona
CHK	rmand
APP	tcsehovics
REL	

GENERAL ARRANGEMENT DRAWING
BARE STEM
STANDARD

CRANE SIZE E DWG NO. 26H900112000 REV. -C