November 16, 2017

Zachary Berggren Engineered Controls International, LLC 100 Rego Drive Elon, NC 27244

Subject: Capacity Certification, Valve Type: B-19434B350-375 & C-19434B350-375

NB Cap Cert. No.: REG-M46325

Dear Mr. Berggren:

We have reviewed the enclosed test results, referenced below, which were performed at the **National Board Testing Laboratory** on November 9, 2017 for the purpose of testing for capacity certification of the subject valve type as required by paragraph UG-136(c)(3) of Section VIII of the ASME Code.

Engineered Controls International, LLC is hereby granted capacity certification and authorization to apply the "NB" mark and ASME Certification mark with "UV" designator to the valve type listed in the scope of certification. This authorization is valid only for the above location and only while the organization is fully implementing its quality control system as accepted by the National Board.

SCOPE OF CERTIFICATION

Valve Type: B-19434B350-375 & C-19434B350-375

Organization Type: Manufacturer

Certified Rating Value/Sizes/Pressure Ranges: As listed in the NB-18

Certification Expiration Date: November 9, 2023

Sincerely,

Thomas P. Beirne, P.E. Technical Manager, Pressure Relief Dept.

REFERENCING TEST NUMBERS: 45757A, 45754A, 45756A, 45755A

File:GF: 171116 REG-M46325 Pass

	Valve ID Data	Revision 2.4		
1	Test Number	45757A		
2	Test Sponsor	Engineered Cor	trols International, LLC	
3	Company Type	Manufacturer	•	Elon, NC
4	Test Date	11/9/2017		REG
5	Valve Type	C-19434B375		
6	Manufacturer	Engineered Con	trols International, LLC	
7	Cap. Cert. ID No.	46325		
8	Set Pressure	375 psig		
9	Inlet Size	1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	759. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	10C17		
	Operational Data and Measured D	imensions		
15	Warn Pressure		psig	
16	Set Pressure	387.6	psig	
17	Reset Set Pressure		psig	
18	Blowdown	98.6	psi	
19	Reset Blowdown		psi	
20	Bore Diameter	0.386	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area	0.11702	in ²	
23	Line Pressure	438.0	psig	
24	Differential Pressure	12.33	psid	
25	Line Temp.	48	°F	
26	Vessel Pressure	426.3	psig	
27	Vessel Temp.	66	°F	
28	P _b	14.32	psia	
29	Plate ID Number	1A	0.8 Pla	ate Dia.
www.com	Calculated Data			
	Line Pressure (absolute)	452.315	psia	
32	Deneity @ Flow Condition	0.0400	lbm/ft ³	
	Density @ Flow Condition (w)	2.3436	IDM/II	
33	Area Factor _(Fa)	0.999686		
34	Trial Flow Rate	1.0712	lbm/sec	
35	Viscosity	1.1441E-05	lbm/ft-sec	
36	Reynolds Number RD	394,735		
37	Theoretical Capacity (WT)			
	WT=CKAP√M/T	4,236.9	lbm/hr N2	
38	Measured Capacity at Std. Cond.	3,856.2	lbm/hr N2	
39	Measured Capacity at Std. Cond.	856.0	SCFM AIR	
40	Slope	1.943	SCFM/PSIA	
41	Coefficient	0.91016		
42	Rated Capacity For Measured Set	783.4	SCFM	
43	Rated Slope	1.778		
44				

Test Summary for test 45757A:	
Valve tested for Quality Control Demonstration as a Valve tested as replacement for test number 43789/	
provisions of ASME PTC 25, the applicable sections of	vas obtained under my supervision in accordance with the the ASME Boiler and Pressure Vessel Code, and the ual. To the best of my knowledge and belief the objects
Authorized Observer: Sam Finley	Date
Test Personnel	Company Representatives
Steve Bowman Sam Finley	George McGonagle

	Valve ID Data	Revision 2.4		
1	Test Number	45754A		
2	Test Sponsor	Engineered Co	ontrols International, LLC	
3	Company Type	Manufacturer	,	Elon, NC
4	Test Date	11/9/2017		REG
5	Valve Type	B-19434B350		1120
6	Manufacturer	Engineered Co	ontrols International, LLC	
7	Cap. Cert. ID No.	46325	,	
8	Set Pressure	350 psig		
9	Inlet Size	1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	710. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	10C17		
	Operational Data and Measure	ed Dimensions		
15	Warn Pressure	364.3	psig	
16	Set Pressure	365.7	psig	
17	Reset Set Pressure		psig	
18	Blowdown		psi	
19	Reset Blowdown		psi	
20	Bore Diameter	0.387	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area		in ²	
23	Line Pressure		psig	
24	Differential Pressure		psid	
25	Line Temp.		°F	
26	Vessel Pressure		psig	
27	Vessel Temp.		°F	
28	P _b	14.34	psia	
29	Plate ID Number			
	Calculated Data			
		14.336		
	Line Pressure (absolute)	14.336	psia	
32	Density @ Flow Condition (w)		lbm/ft ³	
33	Area Factor _(Fa)		3011110	
34	Trial Flow Rate		lbm/sec	
35	Viscosity		lbm/ft-sec	
36	Reynolds Number RD		IDITI/TE-SEC	
37	Theoretical Capacity (WT)			
01	WT=CKAP√M/T	44/41/11/	Harra Harra NIO	
38	Measured Capacity at Std. Cond	#VALUE!	Ibm/hr N2	
39	Measured Capacity at Std. Cond		Ibm/hr N2	
40	Slope	iu.	SCFM AIR	
41	Coefficient		SCFM/PSIA	
42		ot	COEM	
43	Rated Capacity For Measured Se	₽l .	SCFM	
	Nated Slope			l l

I certify that the data on the attached test data sheets was obtained under my supervision in accordance with the provisions of ASME PTC 25, the applicable sections of the ASME Boiler and Pressure Vessel Code, and the National Board Testing Laboratory Quality Control Manual. To the best of my knowledge and belief the objects tested were of the same type and design as indicated. July 2017 Authorized Observer: Sam Finley Date Test Personnel Company Representatives George McGonagle	Test Summary for test 45754A:	
2. Valve tested as replacement for test number 43789A, 43790A tested at The National Board Testing Lab. I certify that the data on the attached test data sheets was obtained under my supervision in accordance with the provisions of ASME PTC 25, the applicable sections of the ASME Boiler and Pressure Vessel Code, and the National Board Testing Laboratory Quality Control Manual. To the best of my knowledge and belief the objects tested were of the same type and design as indicated. J		
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	Valve ID Data	Revision 2.4		
1	Test Number	45756A		
2	Test Sponsor	Engineered Con	trols International, LLC	
3	Company Type	Manufacturer	, , , , , , , , , , , , , , , , , , , ,	Elon, NC
4	Test Date	11/9/2017		REG
5	Valve Type	B-19434B350		
6	Manufacturer	Engineered Con	trols International, LLC	
7	Cap. Cert. ID No.	46325	•	
8	Set Pressure	350 psig		
9	Inlet Size	1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	710. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	10C17		
	Operational Data and Measured D	imensions		
15	Warn Pressure	338.7	psig	
16	Set Pressure	352.2	psig	
17	Reset Set Pressure		psig	
18	Blowdown	66.3	psi	
19	Reset Blowdown		psi	
20	Bore Diameter	0.386	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area	0.11702	in ²	
23	Line Pressure	398.0	psig	
24	Differential Pressure	11.11	psid	
25	Line Temp.	44	°F	
26	Vessel Pressure	387.4	psig	
27	Vessel Temp.	63	°F	
28	P _b	14.32	psia	
29	Plate ID Number	1A	0.8 Plate	e Dia.
	Calculated Data			
	Line Pressure (absolute)	412.323	psia	
32	Density @ Flow Condition (w)	2.1542	lbm/ft ³	
3	Area Factor (Fa)	0.999620	IDITI/IC	
34	Trial Flow Rate	0.9749	He was face as	
5	Viscosity	1.1368E-05	lbm/sec	
6	Reynolds Number RD		lbm/ft-sec	
7		361,563		
07	Theoretical Capacity (WT) WT=CKAP√M/T	0.070.0		
0		3,872.9	lbm/hr N2	
8	Measured Capacity at Std. Cond.	3,509.6	lbm/hr N2	
9	Measured Capacity at Std. Cond.	779.0	SCFM AIR	
0	Slope	1.939	SCFM/PSIA	
1	Coefficient	0.90622	0051:	
2	Rated Capacity For Measured Set	714.3	SCFM	
3	Rated Slope	1.778		
4				

Test Summary for test 45756A:	
Valve tested for Quality Control Demonstration a	
2. Valve tested as replacement for test number 457	754A tested at The National Board Testing Lab.
I certify that the data on the attached test data shee	ets was obtained under my supervision in accordance with the
provisions of ASME PTC 25, the applicable sections	s of the ASME Boiler and Pressure Vessel Code, and the
provisions of ASME PTC 25, the applicable sections National Board Testing Laboratory Quality Control N	s of the ASME Boiler and Pressure Vessel Code, and the Manual. To the best of my knowledge and belief the objects
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	Valve ID Data	Revision 2.4	
1	Test Number	45755A	
2	Test Sponsor	Engineered Con	trols International, LLC
3	Company Type	Manufacturer	Elon, NO
4	Test Date	11/9/2017	REG
5	Valve Type	B-19434B350	
6	Manufacturer	Engineered Con	trols International, LLC
7	Cap. Cert. ID No.	46325	•
8	Set Pressure	350 psig	
9	Inlet Size	1/2 M	
10	Outlet Size	Тор	
11	Stamped Capacity	710. SCFM	
12	Code Section	VIII	
13	Serial Number		
14	Date Code	10C17	
	Operational Data and Measured D	imensions	
15	Warn Pressure	354.5	psig
16	Set Pressure	356.5	psig
17	Reset Set Pressure		psig
18	Blowdown	83.5	psi
19	Reset Blowdown		psi
20	Bore Diameter	0.385	inch
21	Lift		inch
	Measured Data		
22	Flow Area	0.11642	in ²
23	Line Pressure	397.9	psig
24	Differential Pressure	11.09	psid
25	Line Temp.	41	°F
26	Vessel Pressure	387.3	psig
27	Vessel Temp.	61	°F
28	P_{b}	14.33	psia
29	Plate ID Number	1A	0.8 Plate Dia.
	Calculated Data	110.007	
	Line Pressure (absolute)	412.227	psia
32	Density @ Flow Condition (w)	2.1683	lbm/ft ³
33	Area Factor (Fa)	0.999572	10111111
34	Trial Flow Rate	0.9772	lbm/sec
35	Viscosity	1.1314E-05	lbm/ft-sec
36	Reynolds Number RD	364,124	IDITI/TE-SEC
37	Theoretical Capacity (WT)	304, 124	
01	WT=CKAP√M/T	2 961 F	Ibaa /ba NO
38	Measured Capacity at Std. Cond.	3,861.5	lbm/hr N2 lbm/hr N2
39	Measured Capacity at Std. Cond.	3,517.7	
40	Slope	780.8 1.944	SCFM AIR
41	Coefficient	0.91098	SCFM/PSIA
42	Rated Capacity For Measured Set	714.1	SCFM
43	Rated Slope	1.778	SCFIVI
10	Nated Slope	1.770	

1. Valve tested for Quality Control Demonstrati	ion as a Manufacturer.
2. Valve tested as replacement for test number	er 45754A tested at The National Board Testing Lab.
Location that the data on the attached test data a	
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