

THE NATIONAL BOARD

OF BOILER AND

PRESSURE VESSEL

INSPECTORS

TESTING

LABORATORY

May 23, 2014

Suresh Balachandran Valvtechnologies, Incorporated 5904 Bingle Road Houston, TX 77092

SUBJECT: Capacity Certification, Valve Type: Z***1135R55P1 (1.06" Bore)

NB Cap Cert No.: VLC-M59127

Dear Mr. Balachandran:

We have reviewed the test numbers, referenced below, which were performed on May 9, 2014 at the **National Board Testing Laboratory** for the purpose of obtaining capacity certification of the subject valve type. These tests were conducted in accordance with the provisions of paragraph PG-69.3 of Section I of the ASME Code with a test medium of steam.

This is a power operated valve which was manually opened and tested for flow rate only. Four tests were performed and an average slop of 37.47 PPH/PSIA was determined. All four tests had a measured slope within the +/-5% acceptance criteria. Based upon this testing, Valvtechnologies, Inc. can use a rated slope of no higher than 33.7 PPH/PSIA (37.47 x 0.9) for capacity rating of this design.

Valvtechnologies, Incorporated is hereby granted capacity certification and authorization to apply the "NB" mark to the valve type listed in the scope of certification. This authorization is valid for the above location and only while the organization holds a current ASME "V" Certificate of Authorization and is fully implementing its quality system as accepted by the National Board.

SCOPE OF CERTIFICATION

Valve Type: Z***1135R55P1 (1.06" Bore)

Organization Type: Manufacturer

Certified Rating Valve: Slope: 33.7 PPH/PSIA

Size: 1" x 1 1/2"

Pressure Range: 15 through 1500 psig

Certification Expiration Date: May 9, 2020

7437 PINGUE DRIVE

WORTHINGTON, OHIO

43085

U.5.A

PHONE 614.888.8320

FAX 614.848.3474

EMAIL prdinfo@nationalboard.org

Sincerely,

Thomas P. Beirne, P.E.

Technical Manager, Pressure Relief Dept.

Reference Test Numbers: 37151S, 37152S, 37153S, 37154S

FILE: AC: 140523 VLC-M59127

Provisional Testing at NBBI Testing Lab

SCANNED SE

Steam Test Report—Timed Weight Method

Valvetechnologies

Provisional Test Series Valve Type Z***1135R55P1

LC-M5912/				40.00		OC:85	30.00
>	Within	Range?	Yes	Yes	Yes	Yes	
	Slope	PPH/PSIA	37.86	37.65	37.35	37.02	
JJC.	et Pressure	PSIG	20	1.051 100	150	200	
2 2 2 2 2 2 2 2 2 2 2 3 2 3 2 3 3 3 3 3	Orif. Size S	<u>Inches</u>	1.051	1.051	1.051	1.051	
valve i ype	Test	No.	37151S	37152S	37153S	37154S	

						◆ Measured Slope	-+%5 Slope	odolS %5-√							
VLC-M59127		40.00	39.50	39.00	38.50	38.00	Slope 37.50	37.00	36.50	36.00	35.50		0 2 4 6	Test Sequence	
	Within Range? Yes	Yes	Yes Yes							PPH/PSIA	PPH/PSIA	ANA/HAA		PPH/PSIA	

37.47 39.35 35.60

> +5% Slope -5% Slope

Average Slope

33.7

90% Slope

Notes:

 Valves tested for initial capacity certification per paragraph PG-69.3 of Section I, ASME Boiler and Pressure Vessel Code.

I certify that the data on the attached test data sheet(s) was obtained under my supervision in accordance with the provisions of ANSI/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.

Authorized Observer

Test Personnel:

Company Representatives

T. Brown

R. Viers

	Valve ID Data	Revision 3.5	apps\Labview Programs\DATA\Steam Tests\371	151S.xl
1	Test Number	371515		
2	Test Sponsor	Valvtechnologi	es, Incorporated	
3	Company Type	Manufacturer	Housto	n, TX
4	Test Date	5/9/2014		VLC
5	Valve Type	Z5C41135R55F	1-002AA-002	
6	Manufacturer	Valvtechnologie	s, Incorporated	
7	Cap. Cert. ID No.	59127		
8	Set Pressure	50 psig		
9	Inlet Size	1 FI		
10	Outlet Size	1 1/2 FI		
11	Stamped Capacity	Not Stamped		
12	Code Section	l		
13	Serial Number			
14	Date Code	13		
	Operational Data and Measured D	imensions		
15	Warn Pressure		psig	Section 1
16	Set Pressure		psig	
17	Reset Set Pressure		psig	
18	Blowdown		psi	
19	Reset Blowdown		psi	
20	Bore Diameter	1.051	inch	
21	Lift	NA	inch	
	Measured Data			
22	Flow Area	0.86755	in ²	
23	Vessel Pressure	50.0	psig	
24	P _b	14.21	psia	
25	Calorimeter Temp.	268.1	°F	
26	Time of Run	4.0	minutes	
27	Weight	162.2	lbm	
28	Leakage	0.0	PPH	
	Calculated Data			
29				
30	Vessel Pressure	64.2	psia	
31	Enthalpy, calorimeter	1,177.7	BTU/lbm	
32	Saturation Temp., Vessel	297.2	°F	
33	Saturation Volume, Vessel	6.7325	ft ³ /lbm	
34	Steam Quality, Vessel	99.8	%	
35	Vessel Temp. (Theoretical)	297.2	°F	
36	Vessel Volume	6.7217	ft ³ /lbm	
37	Degrees Superheat	N/A	°F	
38	Capacity Correction	0.9992		
39	Measured Capacity	2431.0	PPH	
40	Slope	37.860	PPH/PSIA	
41	Coefficient	0.84737		
42	Rated Capacity For Measured Set	N/A	PPH	
43				
44			in ²	

ccordance with the
Code, and the
belief the objects

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Test Number Test Sponsor Company Type Test Date Valve Type Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure	37152S Valvtechnologies, Manufacturer 5/9/2014 Z5C41135R55P1-C Valvtechnologies, I 59127 100 psig 1 FI 1 1/2 FI Not Stamped I 13 mensions	Houston, TX VLC 002AA-002
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Company Type Test Date Valve Type Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	Manufacturer 5/9/2014 Z5C41135R55P1-C Valvtechnologies, I 59127 100 psig 1 FI 1 1/2 FI Not Stamped I	Houston, TX VLC 002AA-002
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Company Type Test Date Valve Type Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	Manufacturer 5/9/2014 Z5C41135R55P1-C Valvtechnologies, I 59127 100 psig 1 FI 1 1/2 FI Not Stamped I	Houston, TX VLC 002AA-002
5 6 7 8 9 10 11 12 13 14 15 16 17 18	Test Date Valve Type Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	Z5C41135R55P1-C Valvtechnologies, I 59127 100 psig 1 FI 1 1/2 FI Not Stamped I	VLC 002AA-002
6 7 8 9 10 11 12 13 14 15 16 17 18	Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	Valvtechnologies, I 59127 100 psig 1 FI 1 1/2 FI Not Stamped I	
7 8 9 10 11 12 13 14 15 16 17 18	Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	59127 100 psig 1 Fl 1 1/2 Fl Not Stamped	ncorporated
9 10 11 12 13 14 15 16 17 18	Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	59127 100 psig 1 Fl 1 1/2 Fl Not Stamped	
9 10 11 12 13 14 15 16 17 18	Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	1 FI 1 1/2 FI Not Stamped I	
10 11 12 13 14 15 16 17 18	Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	1 FI 1 1/2 FI Not Stamped I	
11 12 13 14 15 16 17 18	Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	Not Stamped I 13	
12 13 14 15 16 17 18	Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	13	
13 14 15 16 17 18	Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure	13	
15 16 17 18 19	Date Code Operational Data and Measured Di Warn Pressure Set Pressure		
15 16 17 18 19	Operational Data and Measured Di Warn Pressure Set Pressure		
16 17 18 19	Warn Pressure Set Pressure	mensions	
16 17 18 19	Warn Pressure Set Pressure		
16 17 18 19	Set Pressure		psig
17 18 19	10.0014		psig
18 19	Reset Set Pressure		psig
19	Blowdown		psi
	Reset Blowdown		psi
	Bore Diameter	1.051	inch
21	Lift	NA	inch
	Measured Data		
		0.00755	in ²
22	Flow Area	0.86755	
23	Vessel Pressure	100.1	psig
24	P _b	14.21	psia °F
25	Calorimeter Temp.	298.4	
26	Time of Run	4.0	minutes
27	Weight	286.1	Ibm
28	Leakage	0.0	PPH
	Calculated Data		
29			
30	Vessel Pressure	114.3	psia
31	Enthalpy, calorimeter	1,192.1	BTU/lbm
32	Saturation Temp., Vessel	337.6	°F
33	Saturation Volume, Vessel	3.9046	ft ³ /lbm
34	Steam Quality, Vessel	100.0	%
35	Vessel Temp. (Theoretical)	341.2	°F
36	Vessel Volume	3.9278	ft ³ /lbm
37	Degrees Superheat	3.5	°F
38	Capacity Correction	1.0030	
39	Measured Capacity	4304.3	PPH
40	Slope	37.654	PPH/PSIA
41	Coefficient	0.84276	
42	Rated Capacity For Measured Set	N/A	PPH
43			
44			in ²

Test Summary for test 37152S:	V:\apps\Labview Programs\DATA\Steam Tests\"S
1. Valve tested for Provisional Testing as a l	Manufacturer.
	ta sheets was obtained under my supervision in accordance with the sections of the ASME Boiler and Pressure Vessel Code, and the
National Board Testing Laboratory Quality Co	ontrol Manual. To the best of my knowledge and belief the objects
tested were of the same type and design as	indicated.
N 7	5-9-14
Authorized Observer: Robert Viers	Date
Test Personnel	Company Representatives
rest Personner	Company Representatives
Tim Brown	
Robert Viers	

	Valve ID Data	Revision 3.5	apps\Labview Programs\DATA	\Steam Tests\37153S.xls
1	Test Number	37153S		
2	Test Sponsor	Valvtechnolog	ies, Incorporated	
3	Company Type	Manufacturer		Houston, TX
4	Test Date	5/9/2014		VLC
5	Valve Type	Z5C41135R55I	P1-002AA-002	
6	Manufacturer	Valvtechnologie	es, Incorporated	
7	Cap. Cert. ID No.	59127	-	
8	Set Pressure	150 psig		
9	Inlet Size	1 FI		
10	Outlet Size	1 1/2 FI		
11	Stamped Capacity	Not Stamped		
12	Code Section	1		
13	Serial Number			
14	Date Code	13		
	Operational Data and Measured D	imensions		
15	Warn Pressure		psig	
16	Set Pressure	Proceded Title Andrew Comment (Int. 1945 Co. Andre 1945 Co. Andrew Co. 1995 Co.	psig	
17	Reset Set Pressure		psig	
18	Blowdown		psi	7 W 41 V 421
19	Reset Blowdown		psi	7 (V V V V V V V V V V V V V V V V V V
20	Bore Diameter	1.051	inch	V/A-1-79-11-11-11-11-11-11-11-11-11-11-11-11-11
21	Lift	NA	inch	/ x 354000000
	Measured Data			
22	Flow Area	0.86755	in ²	
23	Vessel Pressure	149.9	psig	
24	Pb	14.21	psia	
25	Calorimeter Temp.	304.8	°F	
26	Time of Run	4.0	minutes	
27	Weight	408.8	lbm	
28	Leakage	0.0	PPH	
	Calculated Data			
29				7
30	Vessel Pressure	164.1	psia	
31	Enthalpy, calorimeter	1,195.1	BTU/lbm	
32	Saturation Temp., Vessel	365.6	°F	
33	Saturation Volume, Vessel	2.7665	ft ³ /lbm	
34	Steam Quality, Vessel	99.9	%	
35	Vessel Temp. (Theoretical)	365.6	°F	
36	Vessel Volume	2.7639	ft ³ /lbm	
37	Degrees Superheat	N/A	°F	0-23 T000000 x T00 x 10 x x x x x x x x x x x x x x x x
38	Capacity Correction	0.9995	•	
39	Measured Capacity	6129.2	PPH	
40	Slope	37.348	PPH/PSIA	Management of the state of the
41	Coefficient	0.83592	TITI/I VIA	
42	Rated Capacity For Measured Set	N/A	PPH	
43	reaced Capacity I of Measured Set	(N/A	I I I I	
			in ²	
44				

	V:\apps\Labview Programs\DATA\Stea
1. Valve tested for Provisional Testing as a	Manufacturer.
	ata 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
provisions of ASME PTC 25, the applicable National Board Testing Laboratory Quality C	sections of the ASME Boiler and Pressure Vessel Code, and the Control Manual. To the best of my knowledge and belief the objects
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provisions of ASME PTC 25, the applicable National Board Testing Laboratory Quality C tested were of the same type and design as	sections of the ASME Boiler and Pressure Vessel Code, and the Control Manual. To the best of my knowledge and belief the objects
provisions of ASME PTC 25, the applicable National Board Testing Laboratory Quality C tested were of the same type and design as Authorized Observer: Robert Viers	sections of the ASME Boiler and Pressure Vessel Code, and the control Manual. To the best of my knowledge and belief the objects indicated. 5-4-14 Date
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provisions of ASME PTC 25, the applicable National Board Testing Laboratory Quality C tested were of the same type and design as Authorized Observer: Robert Viers Test Personnel	sections of the ASME Boiler and Pressure Vessel Code, and the control Manual. To the best of my knowledge and belief the objects indicated. 5-4-14 Date
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orovisions of ASME PTC 25, the applicable National Board Testing Laboratory Quality Clested were of the same type and design as Authorized Observer: Robert Viers Test Personnel Tim Brown	sections of the ASME Boiler and Pressure Vessel Code, and the control Manual. To the best of my knowledge and belief the objects indicated. 5-4-14 Date

			ATA\Steam Tests\37154S.xls
Test Number	37154S		
Test Sponsor	Valvtechnologie	es, Incorporated	a communication of the second
Company Type	Manufacturer		Houston, TX
Test Date	5/9/2014		VLC
Valve Type	Z5C41135R55P	1-002AA-002	
Manufacturer	Valvtechnologies	s, Incorporated	
Cap. Cert. ID No.	59127		
Set Pressure	200 psig		
Inlet Size	1 Fl		
Outlet Size	1 1/2 FI		
Stamped Capacity	Not Stamped		
Code Section	l		
Serial Number	WW. 04.00.72		
Date Code	13		
Operational Data and Measured Di	mensions		
Warn Pressure		psig	
Set Pressure	\$ 0000 1 TO	psig	
Reset Set Pressure	and a supply of the supply of	psig	
Blowdown		psi	
Reset Blowdown		psi	
Bore Diameter	1.051	inch	
Lift	NA	inch	
Measured Data			
Flow Area	0.86755	in ²	
Vessel Pressure	200.0	psig	
P _b	14.21	psia	
Calorimeter Temp.	312.7	°F	
Time of Run	4.0	minutes	
Weight	529.0	lbm	
Leakage	0.0	PPH	
Calculated Data			
			- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17
Vessel Pressure	214.2	psia	
Enthalpy, calorimeter	1,198.9	BTU/lbm	
	387.6	°F	
		ft ³ /lbm	
		%	
		°F	
		ft ³ /lbm	
	· · · · · · · · · · · · · · · · · · ·	°F	
	A 44.44.44.49 ***************************		
CALCULATION CONTRACTOR	///···································	PPH	
		.//:	
		PPH	
Tatod Supusity For Misusured Oct	., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		in ²	AAA
	Company Type Test Date Valve Type Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Stamped Capacity Code Section Serial Number Date Code Operational Data and Measured Di Warn Pressure Set Pressure Reset Set Pressure Blowdown Reset Blowdown Bore Diameter Lift Measured Data Flow Area Vessel Pressure P _b Calorimeter Temp. Time of Run Weight Leakage	Company Type	Company Type

National Board Testing Laboratory

Steam Test - Timed Weight Method: Test Summary

Test Summary for test 37154S:	V:\apps\Labview Programs\DATA\Steam Test
A M. L. L. J. & C. Dur Schand Teating as a M.	To a suite above a
Valve tested for Provisional Testing as a M	anutacturer.
provisions of ASME PTC 25, the applicable se	a sheets was obtained under my supervision in accordance with the ections of the ASME Boiler and Pressure Vessel Code, and the ntrol Manual. To the best of my knowledge and belief the objects adicated. 5 - 9 - 14 Date
Augustized Observer. Nobelt Viers	Dato
Test Personnel	Company Representatives
Tim Brown	
Robert Viers	



Application for National Board Certification of a Pressure Relief Device Design and Authorization to use the "NB" Mark

Part 1 General Information

We are making application to the National Board of Boiler and Pressure Vessel Inspectors to obtain National	Board o	certification
and permission to use the National Board "NB" mark on the device design described below.		

Company Name: Valitechnologies Inc. Address: 5904 Bingle Road Hawter TX 77072 hereby applies for device certification as the Manufacturer Pressure Relief Valves Rupture Disk Devices ☐ Assembler Other Devices of device type Valv technologies (Manufacturer's Name) Designed by and described in Part 2 on the reverse side of this application (Manufacturers Only). This certification is to be considered for: Certified Medium: 🔀 Steam 🔲 Air 🔲 Gas 🔲 Liquid (Note Liquid fluid scope PRVs, are certified seperate from compressed fluid scope PRVs) Construction Code Sections: X ASME Section I ASME Section III; Subsection NB NC ND, or NE ASME Section IV ASME Section VIII, Division 1 ☐ ASME Section VIII, Division 3 Code Cases: Initial Device Certification, ☐ Transfer of Auth. ☐ Design Type Scope Change, or and is a(n) Five Year Certification Renewal - NB Cert No. Exp. Date We certify that devices of the above noted type will be manufactured or assembled in accordance with the Construction Code and our National Board accepted quality system. (Company Representative Signature) National Board Office Use Design Id Number: ______ Company I.D. 29020 Company Code VLC Application Reviewed By._ Design Reviewed and Accepted By. (For Initial and Renewals only) Certification Fee received on:

NB 502 Rev 6

Application Id: VLC59127-18-01 Provisional: I value, 4 steam flow tests

4/19/4 e-man

National Board Application for Certification Application Id:
Part 2 Scope of Design (To be completed by Manufacturers Only)
A. Device Manufacturer: Valvtechnologies Inc. Type/Model: Z**X1135R55P1 Plant Location: 5904 Bingle Road Houston TX 77092
Plant Location: 5904 Bingle Road Houston TX 77092
B. Device Type:
(1) Reclosing Types: - Safety Valve Safety Relief Valve Relief Valve Pilot Operated Pressure Relief Valve Temperature Actuated Pressure Relief Valve Vacuum Relief Valve Other
(2) Non-Closing Types: - Rupture Disk Device Buckling Pin Device Breaking Pin Device
(3) Special Service Conditions - None Low Pressure Steam Heating Boilers Non-Refrigerated Liquified Compressed Gases Organic Fluid Vaporizers Forced Flow Steam Generator or High-Temperature Water Boiler C. Set Pressure Definition: Popping Start-to-Leak Initial Audible Discharge Bubble Irst Steady Stream First Heavy Flow Burst Pressure Buckling Pressure Breaking Pressure Other
D. Blowdown Characteristic: (Describe Physical Observations by Seeing, Hearing, Feeling)
Fixed Adjustable Adjustable and Fixed for Mod. Pilot N/A
Adjustable by: Single Ring Dual Ring Other (Describe)
E. Flow Area Configuration: (Describe) Nozzle/Full Lift
F. Scope of Nominal Size and Set Pressure Ranges: (For additional sizes, attach supplemental sheet)
Office 3
Inlet Size Outlet Size Flow Area* designator diameter
1^{μ} $1-42^{\mu}$ 0,882 in ² 1.06 15-1500 ps; Steam
VP D. 4. Disk desired by the state of the st
*For Rupture Disk devices, list minimum net flow area.
G. Materials of Construction Part Key: H=Body/Holder; B= Bonnet; Y= Yoke
Key Type Grade Key Type Grade SA-216 UCB
A SA CIE DED
H. Design Drawing/Specification Number and Revision Level 02-538
(Note: Please attach current parts list with material specifications and drawings)
 Design Options: Describe in space provided those options and variations which will be included (i.e. bellows, seat configuration, lifting lever option, etc.)
J. Test Medium: Steam Air Gas Liquid Water
K. Certification Method: Flow Capacity Rating by; Coeff. of Discharge K, Slope Flow Factor,
☐ 3 Valve Average ☐ Single Valve Method or ☐ Single Size Resistance Factor Rating; ☐ K RG, or ☐ KRL
or \square 3 Size Resistance Factor Rating \square K $_{RG}$, or \square K $_{RL}$
L. Certification Rating Value with unit of measure: 33.7 PPH/PSIA (Value) (Units) Test Value 5 1914