

January 9, 2020

Mr. Brad Mercadal ValvTechnologies, Incorporated 5904 Bingle Road Houston, TX 77092

SUBJECT: Scope Change, Valve Type: Z***-105***8*

NB Capacity Certification: VLC-M59105

Dear Mr. Mercadal:

Enclosed please find a copy of test number 51081S which was performed at the National Board Testing Laboratory on January 7, 2020, for the purpose of adding a new inlet and outlet configuration to the subject capacity certification. This test was performed in accordance with paragraph PG-69.6 of Section I of the ASME Code with steam as the test medium.

The valve had a measured slope of 41.21 PPH/PSIA. This slope <u>is within</u> the required range of \pm 5 % of the average slope of 42.29 PPH/PSIA established during provisional testing.

ValvTechnologies, Incorporated has successfully completed testing to add the new inlet and outlet configuration to the subject capacity certification.

Yours truly.

Austin Peck

Manager of Pressure Relief Testing Laboratory

Austra Pack

ENCLOSURE(S)

FILE: <200109 VLC-M59105 SCOPE CHANGE TESTING PASS>

National Board Testing Laboratory Steam Test - Timed Weight Method

	Valve ID Data	Revision 4	apps\Labview Programs\E	ATA\Steam Tests\51081S.xls
1	Test Number	51081S		
2	Test Sponsor	ValvTechnolog	gies, Incorporated	
3	Company Type	Manufacturer	•	Houston, TX
4	Test Date	1/7/2020		VLC
5	Valve Type	Z_105		
6	Manufacturer		es, Incorporated	
7	Cap. Cert. ID No.	59105		
8	Set Pressure			
9	Inlet Size	1 1/2 FI		
10	Outlet Size	2 FI		
11	Stamped Capacity	Not Stamped		
12	Code Section	1		
13	Serial Number	XQJ01		
14	Date Code			
	Operational Data and Measured D	imensions		
15	Warn Pressure		psig	
16	Set Pressure		psig	
17	Reset Set Pressure		psig	
18	Blowdown		psi	
19	Reset Blowdown		psi	
20	Bore Diameter	1.055	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area	0.87417	in ²	
23	Vessel Pressure	125.0	psig	
24	P _b	14.25	psia	
			°F	
25	Calorimeter Temp.	293.5	·	
26	Time of Run	4.0	minutes	
27	Weight	373.4	lbm	
28	Leakage	149.3	PPH	
	Calculated Data			
29	Versal Bereins	100.0		
30	Vessel Pressure	139.3	psia	
31	Enthalpy, calorimeter	1,189.7	BTU/lbm	
32	Saturation Temp., Vessel	352.6	°F	
33	Saturation Volume, Vessel	3.2364	ft ³ /lbm	
34	Steam Quality, Vessel	99.6	%	
35	Vessel Temp. (Theoretical)	352.6	°F	
36	Vessel Volume	3.2233	ft ³ /lbm	
37	Degrees Superheat	N/A	°F	
38	Capacity Correction	0.9980		
39	Measured Capacity	5739.0	PPH	
40	Slope	41.213	PPH/PSIA	
41	Coefficient	0.91544		
42	Rated Capacity For Measured Set	N/A	PPH	
43	*			
44			in ²	

National Board Testing Laboratory Steam Test - Timed Weight Method: Test Summary

Test Summary for test 51081S:	V:\apps\Labview Programs\DATA\Steam Tests\"S.xls
 Valve tested for Scope Change as a Manufacturer. Measured slope = 41.2 PPH/psia5% slope from c is within acceptance band. 	
provisions of ASME PTC 25, the applicable sections of	was obtained under my supervision in accordance with the f the ASME Boiler and Pressure Vessel Code, and the nual. To the best of my knowledge and belief the objects
Test Personnel Robert Viers	Company Representatives
Steve Bowman	