

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP – 0574 – 10
OSHPD Special Seismic Certification Preapproval (OSP)	
Type: 🛛 New 🗌 Renewal	
Manufacturer Information	
Manufacturer: Power Technique North America LLC (Beacon Medaes))
Manufacturer's Technical Representative: <u>Tim Conner, Engineering M</u>	lanager, Medical Gas Products
Mailing Address:1059 Paragon Way, Rock Hill, SC 29730	
Telephone: (803) 817-5600 Email: tim.cor	nner@beaconmedaes.com
Product Information	0.
Product Name: MV Filter Modules	19 PL
Product Type: Mechanical Equipment	L'E
Product Model Number: See attached	CE
(List all unique product identification numbers and/or part numbers)	
	ain flasks, butterfly valves, and manifolds sitting on
manufacturer supplied frames	1 2
Mounting Description: Units are rigid base mounted	
	A.
Applicant Information	CODI
Applicant Company Name: The VMC Group	
Contact Person: John Guiliano	
Mailing Address: 113 Main Street, Bloomingdale, NJ 07403	
Telephone: (973) 838-1780 Email: john.gi	uliano@thevmcgroup.com
I hereby agree to reimburse the Office of Statewide Health Pl accordance with the California Administrative Code, 2016.	anning and Development review fees in
Signature of Applicant:	Date: 8/16/18
Title: President // Company Name: The VM	MC Group
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	OSHPD
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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)

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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)									
oanornia Licensed otractaral Engineer Responsible for the Engineering and rest Report(s)									
Company Name: The VMC Group									
Name: Kenneth Tarlow California License Number: SE-2851									
Mailing Address: 113 Main Street, Bloomingdale, NJ 07403									
Telephone: (973) 838-1780 Email: <u>ken.tarlow@thevmcgroup.com</u>									
Supports and Attachments Preapproval									
 Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) Supports and attachments are not preapproved 									
Certification Method OSHPD									
Testing in accordance with: ICC-ES AC156 0574-10 Other (Please Specify): BY:Ali Sumer									
C DATE: 02/21/2010									
Testing Laboratory									
Company Name: Dynamic Certification Labs									
Contact Name:Josh Sailer, Laboratory Manager									
Mailing Address: 1315 Greg Street, Suite 109, Sparks, NV 89431									
Telephone: _(775) 358-5085 Email: _josh@shaketest.com									

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Seismic Parameters	
Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No	
Design Basis of Equipment or Components $(F_p/W_p) = 3.00$	
S _{DS} (Design spectral response acceleration at short period, g) =	2.50 g
a _p (In-structure equipment or component amplification factor) =	1.0
R _p (Equipment or component response modification factor) =	1.5
Ω_0 (System overstrength factor) = 2.0	
I _p (Importance factor) = 1.5	
z/h (Height factor ratio) =1.0	
Equipment or Component Natural Frequencies (Hz) =) See at	tachment
Overall dimensions and weight (or range thereof) = <u>See att</u>	achment
Equipment or Components @ grade designed in accordance with ASCE	7-10 Chapter 15: 🗌 Yes 🖾 No
Design Basis of Equipment or Components (V/W) =	
S _{DS} (Design spectral response acceleration at short period, g) =	ZC
S_{D1} (Design spectral response acceleration at 1 second period, g) = (1)
R (Response modification coefficient) =	
Ω_0 (System overstrength factor) =	0
C_d (Deflection amplification factor) =	
I_p (Importance factor) = 1.5	N N
Height to Center of Gravity above base =	- AL
Equipment or Component Natural Frequencies (Hz) =	302
Overall dimensions and weight (or range thereof) = D	
	No
List of Attachments Supporting Special Seismic Certification	
☐ Test Report(s) ☐ Drawings ☐ Calculations ☑	Manufacturer's Catalog
Other(s) (Please Specify):	
OSHPD Approval (For Office Use Only) – Approval Expires on D	December 31, 2022
Signature:	Data: Eabruary 20, 2010
Print Name: <u>Ali Sumer</u>	
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.5$	
Condition of Approval (if applicable):	
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	MAMA OSHPD
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[&]quot;Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

Table 1 - Certified Components

 $((\bullet))$ DCL _{Dynamic Certification Laboratories}

Manufacturer: Power Technique North America LLC (Beacon Medaes)

Product Line: MV Filter Modules

Product Construction: Powder-coated carbon steel frame Mounting Description · Rigid base mount

wounting Description: Rigid base mount									
Model	Description		Dimensions (inches)			Sds (g)	z/h	Unit	
Number			Width	Height	(lb)	5us (g)	2/11	Offic	
MV80-2	VACUUM FILTER ASM 45 SCFM 2" CONN	31	34	63	220			UUT1	
MV160-2	VACUUM FILTER ASM 90 SCFM 3" CONN	31	34	65	273			Interpolated	
MV160-3	VACUUM FILTER ASM 180 SCFM 3" CONN	45	34	65	402			Interpolated	
MV160-4	VACUUM FILTER ASM 270 SCFM 4" CONN	59	34	66	536	2.5	1.0	Interpolated	
MV160-5	VACUUM FILTER ASM 360 SCFM 4" CONN	73	34	66	670	2.5	1.0	Interpolated	
MV160-6	VACUUM FILTER ASM 450 SCFM 4" CONN	87	34	66	787			Interpolated	
MV160-7	VACUUM FILTER ASM 540 SCFM 4" CONN	101	34	66	957			Interpolated	
MV160-8	VACUUM FILTER ASM 630 SCFM 4" CONN	115	34	66	1,110			UUT2	
	OK	001	UM						



Table 2 - Nomenclature Chart

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Manufacturer: Power Technique North America LLC (Beacon Medaes) Product Line: MV Filter Modules В A Variable Definition Allowable Value Definition MV80 Medical Vacuum (MV) Size 80 Filter А Filter Size MV160 Medical (Acuum (NV) Size 160 Filter 2 filter assembly 2 3 filter assembly 3 4 filter assembly 4 5 5 filter assembly В Filter Quantity 6 filter assembly 6 7 7 filter assembly 9 8 filter assembly Example System: Medical Vacuum Filter Module, MV80, 2 filter assembly Example Model Numer: MV80-2 Example Description in BPCS: BY:A Line 1: MV80-2 Vacuum Filter ASM Line 2: 45 SCFM 2" Conn Example System: Medical Vacuum Filter Module, MV160, 2 filter assembly Example Model Numer: MV160-2 Example Description in BPCS: Line 1: MV160-2 Vacuum Filter ASM DING Line 2: 90 SCFM 3" Conn Example System: Medical Vacuum Filter Module, MV160, 5 filter assembly Example Model Numer: WV160-5 Example Description in BPCS: Line 1: MV160-5 Vacuum Filter ASM Line 2: 360 SCFM 4" Conn

Table 3 - Certified Subcomponents

(()) DCL Dynamic Certification Laboratories

Manufacturer: Power Technique North America LLC (Beacon Medaes)

Product Line: MV Filter Modules

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Product Construction: Powder-coated carbon steel frame . . . ----

wounting Descript	tion: Rigid base mou	IIIL		Approvimato	
Subcomponent	Model Number	Manufacturer	Notes	Approximate Weight	Unit
Bacterial filter	8102297952	Walker Filtration Ltd.	MV80	20.7	UUT1
Bacterial filter	8102297978	Walker Filtration Ltd.	MV160	30.7	UUT2
Drain flask	4107655895	Walker Filtration Ltd.	100ML	0.5	UUT1/UUT2
Frame	4107655786	Alloy Fabricators	Welded, single filter	43.1	UUT1/UUT2
	4107655746	Marson International LLC	2X2"-2"	10.8	UUT1
	4107655747	Marson International LLC	2X3"-3"	16.4	Interpolated
	4107655854	Marson International LLC 2X3"-4"		18.8	Interpolated
Manifold	4107655748	Marson International LLC	3X3"-3"	23.0	Interpolated
	4107655852	Marson International LLC	3X3"-4"	26.2	Interpolated
	4107655750	Marson International LLC	4X3"-4"	33.5	UUT2
	4107655751	Marson International LLC	5X3"-4"	40.9	Extrapolated
Split manifold	4107655855	Marson International LLC	4X3"-4"	39.4	UUT2 ¹
00 dag albaw	4107655737	Marson International LLC	2" FLG 2	4.8	UUT1
90 deg elbow	4107655739 🏷	Marson International LLC	3" FLG	6.5	UUT2
Puttorflyvalvo	410765578 <mark>4</mark>	Hajoca Corp.	2" threaded	8.8	UUT1
Butterfly valve	410765578 <mark>5</mark>	Hajoca Corp. Sume	3" threaded	12.6	UUT2

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Note:

1. Manufacturing process is ISO 9001 certified. PORNIA BUI

Table 4 - Tested Components

Manufacturer: Power Technique North America LLC (Beacon Medaes)

Product Line: MV Filter Modules

Product Construction: Powder-coated carbon steel frame

Mounting Description: Rigid base mount

Model	Description	Dimensions (inches)			Weight	Sele (m)	z/h	Unit
Number	er		Width	Height	(lb)	Sds (g)	2/11	Onit
MV80-2	VACUUM FILTER ASM 45 SCFM 2" CONN	31	34	63	220	2 5	1.0	UUT1
MV160-8	VACUUM FILTER ASM 630 SCFM 4" CONN	115	34	66	1,110	2.5	1.0	UUT2

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UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Power Technique North America LLC (Beacon Medaes)

Product Line: MV Filter Modules

Model Number: MV80-2

Product Construction Summary: Powder-coated carbon steel frame

Options / Component Summary: Bacterial Filter, Drain Flask, Butterfly Valve, 2" Manifold

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

UUT Properties										
Operating Weight		D	imensions (in)	ensions (in) Lowest Natural Frequency (H				ency (Hz)		
(lb)			Length	Front-Back	Side-Side	Vertical				
220	UUT1 31.0 34.0 63.0					10.5	10.5	>33.3		
	Seismic Test Parameters									
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2016	ICC-ES AC156	2.50	1.0 P		4.00	3.00	1.67	0.67		
CBC 2010	ICC-L3 AC150	2.50	0.0	1.5	4.00	5.00	1.07	0.07		

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)) DCL Dynamic Certification Laboratories

RECOMMENDED ANCHOR BOLT LOCATION SHOWN WITH 'X' (4 PLACES) 12MM X 1.50

Unit Mounting Description:



UUT 1 was rigid base mounted to the DCL interface fixture with (4) 1/2" diameter, Grade 5, bolts Bolts were spaced lengthwise at 14" and widthwise at 30.25" on center

SECTION A-A SCALE 1 / 6 **UNIT UNDER TEST (UUT) Summary Sheet**

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Manufacturer: Power Technique North America LLC (Beacon Medaes)

Product Line: MV Filter Modules

Model Number: MV160-8

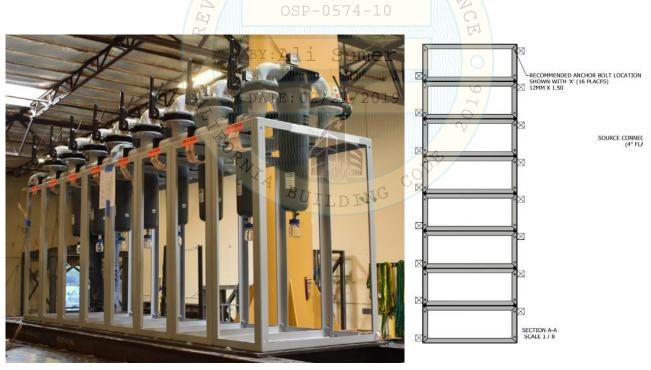
Product Construction Summary: Powder-coated carbon steel frame

Options / Component Summary: Bacterial Filter, Drain Flask, Butterfly Valve, 4" Manifold

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

			UU	T Properties						
Operating Weight		D	imensions (in)			Lowest Natural Frequency (Hz)				
(lb)			Front-Back	Side-Side	Vertical					
1,110	UUT	2	115.0	34.0	66.0	9.0	10.0	>33.3		
	Seismic Test Parameters									
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2016	ICC-ES AC156	2.50	1.00P		4.00	3.00	1.67	0.67		
CBC 2010	ICC-LS ACISO	2.50	0.0	1.5	4.00	3.00	1.07	0.07		

Unit Mounting Description:



UUT 2 was rigid base mounted to the DCL interface fixture with (16) 1/2" diameter, Grade 5, bolts Bolts were spaced lengthwise at 14" and widthwise at 30.25" on center