

# THE CLARIFIER

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## Brown's Manufacturing, LLC Now a Wholly Owned Subsidiary of Velcon Filters, Inc.

Velcon Filters, Inc. announces that its vessel fabrication shop, Brown's Manufacturing, LLC, is now a wholly owned subsidiary of Velcon Filters, Inc. Brown's was founded in 1981 as "B & B Welding", owned and operated by Mike and his wife Michelle Brown and Mike's parents, Ray and LoReese Brown. Soon thereafter they built their first ASME code stamped filter vessel. To date, well over 10,000



Mike and Ray Brown in 1981

pressure vessels have been manufactured and shipped to locations in every part of the world from the small town of Henryetta, OK. They have maintained their ASME code stamp certification continuously since 1981 – most recently re-certifying in March 2008. Brown's has been Velcon's vessel shop since 2004. Recently the main shop was expanded almost double in size to include a new state-of-the-art, temperature-controlled paint room, with a capability of completing in 4 hours what previously had required 2 days for the process.



Welding a Stainless Steel Vessel

To learn more about Brown's interesting history please see our web site at [www.velcon.com/facility.html](http://www.velcon.com/facility.html) or [www.velcon.com/vessels/vessels.html](http://www.velcon.com/vessels/vessels.html)

## API/EI 1594: Initial Pressure Strength Testing

of Airport Fuel Hydrant Systems  
with Water (2nd Edition)

Velcon has received several reports of water contamination of hydrant systems following upgrades and/or repairs to those systems. To prevent this water contamination from occurring, we highly recommend that operators and owners of hydrant systems read the publication produced jointly by the API and EI - "API/EI Recommended Practice 1594 - Initial pressure strength testing of airport fuel hydrant systems with water, 2nd edition", and follow the guidelines presented in that document.

From the publication:

"This publication is intended to give guidance to designers, engineers and operators of airport fuel hydrant systems in the use of water for testing and, in particular, the subsequent dewatering procedures required in bringing the system into commission."

To order the publication, go to Portland Press:

[http://www.portlandpress.com/pcs/books/prod\\_det.cfm?product=9780852934937](http://www.portlandpress.com/pcs/books/prod_det.cfm?product=9780852934937)

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Velcon®



## Velcon VCA®/Cla-Val Press Release

April 11, 2008

*VCA® and Cla-Val Product Agreement*

Velcon Filters, Inc. of Colorado Springs, CO and Cla-Val of Costa Mesa, CA are pleased to announce a new product consisting of the Velcon Contaminant Analyzer (VCA®) integrated into a Cla-Val control valve. Velcon's VCA® instrument analyzes fuels for the presence of water and solid



contaminants. The new product has the ability to automatically shut off flow at the control valve when either the water or solid contaminant concentration increases over a preset threshold.

The VCA® instrument is integrated into the outlet of the Cla-Val flow control valve body in order to facilitate installation and ease of use within an existing pipe or fuel line. The VCA® has been extensively field tested, and the Cla-Val control valve is an industry standard. The combination of these two products will extend the versatility and flexibility of the VCA® and give quality control and reliability to any type of fuel system.

The Velcon Contaminant Analyzer (VCA®) was developed in conjunction with Physical Sciences Inc. (PSI) which has supplied laser contaminant analyzers to the US Navy for monitoring fuel on aircraft carriers. ➔

## Static Charge Issue with Small Vessel Housings

*Service Bulletin Volume 7, Number 1 ~ Important Safety Notice*

Velcon Filters, Inc. recommends that all filter vessels should be electrically bonded, as a matter of course. In the case of small vessel housings, extra care is needed to ensure that both pieces (head and body) are bonded. Even though the head is connected to piping, the body is not necessarily bonded, due to its epoxy powder coating. Recently Velcon has received reports that some installations experience electrical buildup and discharge when draining these small vessel housings. To prevent a discharge, use a grounding wire to place a bonding loop from the drain valve to a point on the metal framework of the vehicle or skid. This provides a continuous bond. In addition, before draining the vessel, electrically bond a metal container to the drain valve using a grounding wire. Then drain the fuel into the bonded metal container.

Velcon has updated the installation instructions for its small vessel housings, including Part Numbers VF-31E, VF-61, and VF-609, to include this safety precaution. To access the installation instructions on our web site - go to [www.velcon.com/install.html](http://www.velcon.com/install.html), or from the home page ([www.velcon.com](http://www.velcon.com)), click on the top right: "Library", and then on the Library page, click on: "Installation Instructions". The small vessel housing instructions for the above part numbers are in the middle of the page. ➔

## The Importance of Clay Treaters in the Fuel Distribution System

Clay treaters are a key component to a complete fuel handling system. The purpose of clay treatment is to remove surfactants (surface-active agents) from fuel. Surfactants can be either natural, originating from the crude oil itself, or man-made, in the form of additives, to achieve certain fuel properties. Either type can disarm coalescer cartridges in a filter/separator vessel. Removal of surfactants with clay prior to the filter/separator vessel keeps the expensive coalescers working properly and efficiently. For more detailed information about clay treaters, please visit our web site at

[www.velcon.com/vessels/clay.html](http://www.velcon.com/vessels/clay.html) ➔

# Velcon's 17<sup>th</sup> & 18<sup>th</sup> Successful Completion of the API/EI 1581 5<sup>th</sup> Edition Qual Test

Velcon Filters, Inc. is pleased to announce the successful completion of qualification tests for the “API/EI 1581 Specification and Qualification Procedures for Aviation Jet Fuel Filter/Separators, Fifth Edition” as follows:

Category M (Military), Type S, with JP-8 fuel  
Filter/separator vessel (vertical) VV3656 at 1210 gpm,  
with 12 x I-644MMTB coalescers and 4 x SO-644VSN separators

And

Category C (Commercial), Type S-LW, with Jet-A fuel  
Filter/separator vessel (Horizontal side-open) HVS-3033 at 1023 gpm,  
with 14 x I-628C5TB coalescers and 8 x SO-609V5 separators

These are Velcon's 17th and 18th successful completion of the API/EI 1581 qualification requirements for the fifth edition of this specification. Below is a table showing all of Velcon's completed tests.

## API/EI-1581 5<sup>th</sup> Edition Completed Tests

<i>Date</i>	<i>Test Vessel</i>	<i>Flow Rate (USGPM)</i>	<i>Category</i>	<i>Type*</i>	<i>Coalescers</i>	<i>Separators</i>
Apr-08	HVS3033	1023	C	S-LW	14 x I-628C5TB	8 x SO-609V5
Feb-08	VV3656	1210	M	S	12 x I-644MMTB	4 x SO-644VSN
Jan-08	HV2460	1065	C	S-LW	6 x I-656C5TB	2 x SO-648V5
Apr-07	HV1633	240	M	S	3 x I-633MMTB	1 x SO-436V5
Sep-06	HV3256	1250	M	S	9 x I-656MMTB	3 x SO-648V5
Aug-05	R11 OshKosh	600	M100	S	15 x I-440A4	15 x SI-542
Nov-04	HV2856 (3-Stage)	800	C	S	5 x I-656C5TB	6 x SO-633GS + 30 x CDF-230K
Oct-04	HV2856	1130	C	S	7 x I-656C5TB	2 x SO-648V
Jun-04	HV2856	1080	C	S	7 x I-656C5TB	2 x SO-648V
Apr-04	HV4256	2330	C	S	17 x I-654C5TB	7 x SO-648V5
Oct-03	R11 OshKosh	600	M	S	15 x I-440MM	15 x SI-542
Sep-03	VV4256	2500	C	S	18 x I-654C5TB	8 x SO-646V5
Jul-03	HV2856	1000	C	S	7 x I-656C5TB	2 x SO-648CM
Jun-03	HV2856M	1312	C	S-LW	7 x I-656C5TB	2 x SO-648V
Jun-03	VV2752B	900	C	S	7 x I-644C5TB	3 x SO-644V5
Apr-03	AAE	2000	M	S	50 x I-620MM	20 x SO-620C
Dec-02	HVS2628M (3-Stage)	600	M100	S	10 x I-628A4TB	8 x SO-616GS + 40 x CDF-215K
Nov-02	HV2856	1000	M100	S	7 x I-656A4TB	2 x SO-648CM

\*Type S also qualifies this configuration for Type S-LW (0.5% water) and Type S-LD (low dirt)

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## *Velcon Service Awards*

Congratulations to these Velcon employees who have recently celebrated special anniversaries with Velcon:

### **10 Years**

Linda Oppelt (CO)  
Bernie Pittman (CO)

### **5 Years**

Katrina Woodfin (AL)

## **Holiday Shutdown**

Please note that Velcon will be closed on the following date in 2008.

**Labor Day September 1**

## **Velcon's New Website**

Please check out our new website

[www.velcon.com](http://www.velcon.com)

Any comments, please call or email

Chase Taylor 719.528.7226 or

[chase.taylor@velcon.com](mailto:chase.taylor@velcon.com)

Velcon Filters, Inc.  
Attn: Robin Mason  
1210 Garden of the Gods Road  
Colorado Springs, CO 80907-3410  
Phone: (719) 531-5855  
Fax: (719) 531-5690  
e-mail: [vfsales@velcon.com](mailto:vfsales@velcon.com)

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We also welcome your comments and suggestions on topics covered in *The Clarifier*.