

THE CLARIFIER

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Velcon Announces EI 1583 6th Edition Qualification

Velcon Filters, LLC is pleased to announce the successful completion of qualification tests according to “EI 1583 Laboratory tests and minimum performance levels for aviation fuel filter monitors, 6th edition” requirements. This test series fully qualifies Velcon’s new CDF®-2xxP Series monitor (water absorbing) cartridges to the latest edition of the 1583 specification (sixth edition).

Velcon’s new CDF®-P Series Cartridges incorporate several structural features due to new/updated requirements of the sixth edition of EI 1583. Some of these features and resulting benefits include:

- Increased product conductivity decreases the risk of electrostatic discharges
- Improved media structure lowers the risk of media migration
- Improved water removal efficiency – less than 1 ppm of water downstream of the filters – along with improved water holding capacity (200 ml)
- Lower initial differential pressure – a major factor for installations that require changing cartridges at 15 PSID
- New structure that provides longer cartridge life in the presence of small amounts of water

These two-inch diameter cartridges should be available commercially shortly. Please contact Velcon if you will need to purchase cartridges for testing.

Please note that in the presence of anti-icing additives in fuel, the caution against using water absorbing monitor cartridges remains in force within the industry.

Velcon Filters, LLC has been the leader in the fuel filtration industry for over 50 years. To upgrade your existing facilities, or to install new EI 1583 6th Edition cartridges at your location, please contact Velcon at vfsales@velcon.com or contact your authorized Velcon distributor. ➔



CDF® Cartridges

CONTENTS

Vessels in Stock!	Page 2	Enhanced Laboratory & Testing Services.....	Page 5
API/EI Specifications Update	Page 2	Upcoming Tradeshows.....	Page 5
New Posters	Page 3	Importance of Monitoring Differential Pressure.....	Page 6
Velcon Service Awards	Page 3	Holiday Shutdown.....	Page 6
New Products from Velcon.....	Page 4		
New Faces.....	Page 5		

Velcon®



Find us on Facebook at www.facebook.com/velconfilters or on Twitter @VelconFilters

Vessels in Stock!

The following Velcon filter vessels are currently in stock for quick delivery (subject to change).

Model Number	Flow Rate (Jet)	Type of Vessel
VX-1	50 GPM	Vel-Max®
VX-2	100 GPM	Vel-Max®
VX-3	150 GPM	Vel-Max®
HM0610M150	50 GPM	Horizontal Monitor
AHM1430MRAM	800 GPM	Alum. Horizontal Monitor
VC4854285	600 GPM	Vertical Clay Treater
VV2838285A	605 GPM	Vertical Filter Separator
HV1633150CX	240 GPM	Horizontal Filter Separator
HV1633150	240 GPM	Horizontal Filter Separator
HV1633M150N3	300 GPM	Mobile Horizontal Filter Separator



HV1633150: Stationary Horizontal Filter/Separator

For more information and quote and availability, please contact your local distributor or Velcon Filters at vfsales@velcon.com or 719.531.5855 →

API/EI Specifications Update

The specification for water absorbing monitor cartridges, **EI 1583**, has been updated – the 6th Edition of this specification was published by Energy Institute in January 2010.

Some of the new requirements of the sixth edition of EI 1583 are:

- 18 lab qualification tests vs. 14 for the 4th edition
- Testing salt resistance
- Testing for cartridge conductivity
- Testing for structural integrity
- Testing for any trace SAP migration
- Water slug test at low flow (10% of rated flow)
- Low water (50 ppmv) at low flow (10% of rated flow)
- For more information about the changes from 5th to 6th edition please see the Chapter 9 of API/EI 1550, which has been revised to include updates from the latest edition of EI 1583. A copy of this chapter is available at the end of the free sample on the EI website located here: www.energyinstpubs.org.uk/pdfs/740.pdf



Also, in early April, 2010, the Energy Institute (EI) announced that the American Petroleum Institute (API) had decided to disband its **Aviation Technical Services Sub-Committee**, which was joint custodian of the API/EI aviation fuel handling publications. Responsibility for all aviation fuel handling issues was transferred to Energy Institute. All titles previously published jointly (API/EI 1581, for example) are now rebranded as “EI” publications, and witness testing previously carried out by API is being handled by EI. This transition required additional time and delayed the qualification process of certain EI 1583 & EI 1581 tests, however now that the transition is complete the industry is moving forward. →

New Posters

Velcon is proud to present several new complimentary posters – the “Apache” and the “Wingman” posters. The Apache poster tag line says “No Fuelin’ Around – Call in the Cavalry”, and the F-35 (Lightning II) poster’s tag line says “Your Wingman in Fuel Protection”.

Velcon has recently produced another poster: “Recommended Filtration for Diesel and Biodiesel Transfer Points” highlighting the importance of filtration at each storage area as the fuel travels from refinery to the various retail markets. Another poster highlighting filtration for the mining industry is also available in both English and Spanish.

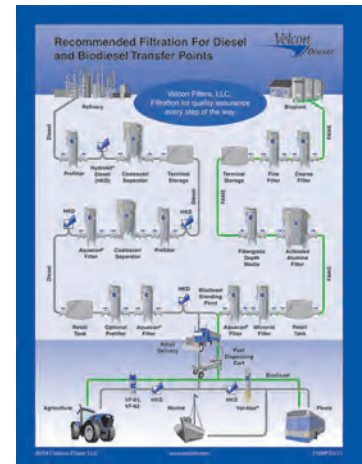
Please contact Velcon Filters, LLC at vfsales@velcon.com or contact your local Velcon distributor to request posters. Please specify which poster and quantity. ➔



“Apache”



“Wingman”



“Diesel Filtration to Retail”

Velcon Service Awards

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

Gary Olstad, Corporate Facilities Manager & Safety Administrator. Gary recently celebrated his 45th year with Velcon Filters! Photo shows Robin Mason (left) congratulating Gary (right) on his longevity with the company. Gary is a tireless worker and a fixture at Velcon. We are pleased to have someone of his caliber on the job, day in and day out! ➔

45 Years

Gary Olstad (CO)

15 Years

Janice Holdeman (AL)

10 Years

David Hawkins (CO)

35 Years

Elona Shrum (CO)

Joe Morford (CO)

Freddie Jones (AL)

Mary Glover (CO)

Jacqueline Holtzclaw (AL)

Otto Laursen (CO)

Lakia Garrett (AL)

Rina Castaneda (CO)

Misty Threatt (AL)

30 Years

Agnes Shell (AL)

5 Years

Leslie Lee (AL)

Annie Weathers (AL)

Andreka Curry (AL)

Loraine Porter (AL)

Lynette Hamilton (AL)

Carla McGhee (AL)

Memphis McElrath (AL)

Chase Taylor (CO)

Shelia Hill (AL)

25 Years

James Head (CO)

Cleresa Youmans (AL)

Stacey Stroud (AL)

Willie Oden (AL)

Gertrude McKinney (AL)

Teresa Isom (AL)

James Couey (AL)

Tracy Chapman (AL)

Katrina Cook (AL)



Robin Mason and Gary Olstad

New Products from Velcon

CDF® P Series Cartridge

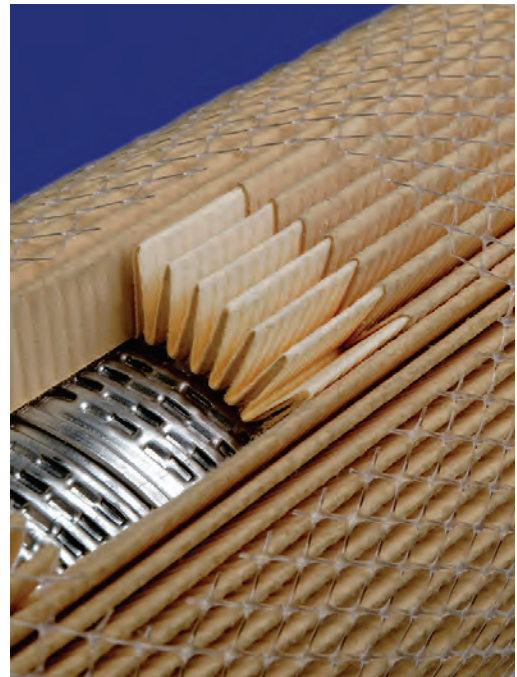
Velcon's new "P Series" CDF® cartridges are qualified to EI 1583 Sixth Edition. These two-inch monitor cartridges provide improved performance in salt water, improved water capacity, and a reduction of static charge within the filter vessel. Please be patient as Velcon will gradually be transitioning from its N Series to the P Series in production over the next several months.

www.velcon.com/cartridges/cdf.html

Dual Media Filter Cartridges

Bulk fuel suppliers are increasingly being called upon to supply cleaner fuels to accommodate new engine technology, more stringent emissions standards, and ever-increasing environmental concerns. Velcon has designed a dual media cartridge to provide a cost effective solution to these problems. These cartridges incorporate two-layer filtration in a single filter cartridge. They are intended for use in applications where a large variance of contaminant particle size occurs - terminals, refineries and pipelines especially. This photo shows the 15 micron rated media outer layer and the 2 micron rated media inner layer. A new data sheet, #2064, provides more details about this cartridge series.

www.velcon.com/cartridges/pleated.html



Cutaway of Dual Media Cartridge



VF-62 Housing

VF-62 Filter Housing

Velcon introduces its newest product, the VF-62 Filter Housing. Similar in construction to the VF-61 in everything except length, this new filter housing is able to handle higher flow rates for a variety of applications in the field. Flow rates for the VF-62 are 10 to 100 GPM for jet fuel and avgas, and 30 to 100 GPM for diesel fuel. Please see data sheet #2105, which includes details about the VF-62, VF-61 & VF-61E housings.

www.velcon.com/vessels/small.html

Portable Skid-Mounted Filtration Units

Velcon is offering bulk fuel filtration skids for purchase or rent. These units provide portable yet complete filtration for emergency situations and for multiple applications. They can easily be put into service with little more than upstream and downstream connections being made.

Velcon sent three units to Miami International Airport after the devastating fire that nearly wiped out its fuel farm in April. In addition, filter/separator units, clay treaters and other housings are available for rent, lease or purchase. Please see data sheet #2068 for more information.

www.velcon.com/vessels/BulkFuelFiltrationSkids.html ➔



Portable Skids

New Faces



Keith McAslan

Keith McAslan, President. Keith has over 30 years of general and financial management experience as a CEO and CFO working in many industries, providing leadership and financial guidance. Keith joined Velcon as the CFO prior to being named President and has previously worked with IHS, Inc., Vernon Plastics, Rockwell International, Square D Company, Imperial Home Décor Group and Republic Financial Corporation.

Tom Muzik, Vice President, Engineering. Tom Muzik has joined Velcon in the position of Vice President of Engineering. Tom replaced Greg Sprenger, who retired from Velcon at the end of 2010. Tom previously worked at Parker Hannifin – Filtration Group. During his 20+ years in filtration, he has held positions in Engineering, Marketing, Technical Services, and Operations, and brings with him a strong background in Product/Market Development and Technical Support. Tom has a Bachelors in Engineering and a Masters in Business Administration, and has been awarded several patents in his career.

Becky Glenn, new Customer Service Supervisor.

Although Becky is not new to Velcon, she has recently taken over the role that was previously filled by Sheryl Farris, as Customer Service Supervisor. Sheryl retired from Velcon upon turning 62 in early January. Other changes in Customer Service over the last year include the addition of Sharon Rambo and Gretta Wiseley as sales coordinators.

For more detailed contact information please see the Communications Guide:

www.velcon.com/comm.html →



Newly-retired Sheryl Farris with Velcon's Customer Service Department: l to r, Becky Glenn, Elona Shrum, Sheryl, Sharon Rambo and Gretta Wiseley

Enhanced Laboratory & Testing Services

Velcon has recently expanded its laboratory capabilities with the addition of a 30 keV SEM Scanning Electron Microscope (SEM) with Energy Dispersive X-Ray Spectroscopy (EDS), and a Fourier Transform Infrared (FT-IR) Spectrometer. The SEM has the capability of determining not only particle size but also precise contaminant identification in a filter cartridge. Velcon has also added a 50 gpm full flow diesel test stand as well as a water test stand to its fuel testing lab. With these additions, Velcon has expanded its capabilities of analyzing effectiveness and durability of filter cartridges for multiple applications.



For more information on the Diesel Lab: Datasheet # 2113, www.velcon.com/industrial/DieselLab.html

For more information on the Analytical Lab: Datasheet # 2116, www.velcon.com/industrial/AnalyticalLab.html →



Upcoming Tradeshow

- Velcon will be exhibiting at several tradeshow and conferences in the next several months.
- **National Biodiesel Conference** in Orlando, FL. Feb 5-8. Booth #534
- **TechCon 2012** in Chicago, IL. Feb 28-Mar 1. Booth #TBD. (Utilities)
- **Cygnus Aviation Expo** in Las Vegas, NV, March 7-9. Booth #604.
- **International Conference of Doble Clients** in Boston, MA. March 27-29. Booth TBD. (Utilities)
- If you attend any of these shows, please stop by and see what's new at Velcon!
- Check our webpage for links to the shows www.velcon.com/news/tradeshow.html →

Importance of Monitoring Differential Pressure

An accident at the Hong Kong Int'l Airport last year reinforces the importance of monitoring the differential pressure on jet fuel filtration vessels. It has been determined that the airplane, which was fueled at Indonesia's Surabaya Airport, contained contaminated fuel. The contaminant was identified as SAP (superabsorbent polymer), coming from the monitor vessel. Although the vessel's differential pressure had increased, there was no apparent action taken to investigate the cause. This incident further emphasizes the need for continual monitoring of corrected differential pressure. Velcon is currently in the process of significantly upgrading our FDPM® unit, which will give users the comfort of knowing that the products are being used within their design limits.

Please see the following for more information about this incident and resulting report:

www.info.gov.hk/gia/general/201101/20/P201101200134.htm

www.cad.gov.hk/reports/Accident%20Bulletin%201-2011.pdf

avherald.com/h?article=42a1000b/0001&opt=0 

Holiday Shutdown

Please note that Velcon will be closed on the following dates for 2011

Thanksgiving Weekend –
November 24 & 25

Christmas Weekend –
December 23 & 26

New Year's Eve – December 30 

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If you know anyone who would like to receive *The Clarifier*, fax or email their name, company and address to the address listed on the left.

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