

# THE CLARIFIER

Volume 16 Number 2

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## VF-61 Vessel Housing Gets a New Head



In response to customer requests, Velcon has modified the head of our popular VF-61 Vessel Housing. We began supplying these new heads in mid-September. All VF-61 housings will have a new bolt clamp, as shown at left. Photo on the right shows optional quick release hand bolts. We are also offering a clamp conversion kit (CK-1487), and hand bolts in a pack of 4 (CK-1488). These parts will enable existing VF-61 housings to be converted.



## New Nylon Outer Jacket for Cartridges

Earlier this year we changed the beaming paper on the CDF® cartridges to a new plastic mesh media. Very shortly we will be converting our other cartridges to this same outer jacket. We will not change the ACO series cartridges until we have passed qualification tests (API/IP 1583) with the new media. Shown at right is a photo of FO-644PLF10M with the new nylon outer jacket. The new jacket will replace beaming paper.



FO-644PLF10M with new outer jacket

## Holiday Shutdown

Please note that Velcon will be closed the following dates in 2005-2006 due to holidays.

**Christmas Holiday:**  
**December 23 through**  
**December 26, 2005**

**New Years' Holiday:**  
**December 30, 2005**  
**through January 2, 2006**

**Presidents' Day Holiday:**  
**February 20, 2006**

We wish you Happy Holidays and a wonderful New Year!

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Velcon®



## CDF® Cartridge Update

Velcon Filters, Inc. announces the successful completion of qualification tests to the “API/IP 1583 Specifications and Laboratory Tests for Aviation Fuel Filter Monitors with Absorbent Type Elements”. These tests qualify our new “CDF®-2xxN” series water absorbing monitors to the latest edition of the specification (Fourth Edition).

The following optional tests were also completed successfully:

1. ¾% Sodium Chloride full flow slug test
2. ¾% Sodium Chloride 50 ppm test

Our new cartridge series CDF-2xxN also incorporates features to reduce static charge. These new cartridges will eventually replace our current CDF-2xxK series. ➔

## Velcon Service Awards

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

### **35 Years**

Carl Brandt (CO)

### **30 Years**

Sky How (AL)

### **20 Years**

Greg Sprenger (CO)

Willie Oden (AL)

### **5 Years**

Monica Bryant (AL)

Dave Hawkins (CO)

## API/IP 1590 Successful Qualification: FOH-6xxA1(TB) Cartridges

In November, 2005, Velcon successfully passed API/IP 1590 qualification tests, with Velcon’s FOH-6xxA1(TB) high capacity, one micron cartridge series. This specification is for microfilter elements – it relates only to elements nominally rated within the particle size 1.0–5.0 microns and operating in an out-to-in flow format. This design incorporates the new nylon outer jacket. We are now qualified for both 1 and 3 micron to API/IP 1590. ➔



*Robin Mason presents Carl Brandt with a certificate commemorating Carl’s 35 years with Velcon Filters.*

## 35 Year Award for Carl Brandt

Carl Brandt recently celebrated 35 years with Velcon Filters. Shown here with Robin Mason, VP Sales & Marketing, Carl is Velcon’s Product Manager. He started working in the test lab, eventually becoming lab supervisor, and then Industrial Product Manager. In the past few years Carl has become more involved in the aviation fuel handling side of the business again, in addition to his contributions in the industrial and utility markets. In his free time Carl enjoys playing golf, riding motorcycles, and reading. ➔

# API/IP 1581 5th Edition Announcement

Velcon Filters, Inc. announces the successful completion of qualification tests to the “API/IP 1581 Specifications and Qualification Procedures for Aviation Jet Fuel Filter/ Separators”. These tests qualify our new I-4xxA4 coalescer cartridges and SI-5xx separator cartridges to the latest edition of the specification (Fifth Edition), in Category M100, at flow rates up to 600 USGPM.

This is Velcon’s 13<sup>th</sup> successful completion of the 5<sup>th</sup> Edition qualification requirements. With this achievement, Velcon is the first filter manufacturer to qualify its DOD-sized coalescer for both “M” & “M100” Categories of the API/IP 1581 5<sup>th</sup> Edition Specification.

API/IP-1581 5th Edition Completed Tests  
Velcon Filters, Inc.

Date	Test Vessel	Flow Rate (GPM)	Category, API/IP 1581 5 <sup>th</sup> Edition	Coalescers	Separators	3 <sup>rd</sup> Stage
Aug-05	R11 OshKosh	600	M100 - New & Existing Equipment	15 x I-440A4	15 x SI-542	N/A
Nov-04	HV2856	800	C - New & Existing Equipment	5 x I-656C5TB	6 x SO-633GS	30 x CDF-230K
Oct-04	HV2856	1130	C - New & Existing Equipment	7 x I-656C5TB	2 x SO-648V	N/A
Jun-04	HV2856	1080	C - New & Existing Equipment	7 x I-656C5TB	2 x SO-648V	N/A
Apr-04	HV4256	2330	C - New & Existing Equipment	17 x I-654C5TB	7 x SO-648V5	N/A
Oct-03	R11 OshKosh	600	M - New & Existing Equipment	15 x I-440MM	15 x SI-542	N/A
Sep-03	VV4256	2500	C - New & Existing Equipment	18 x I-654C5TB	8 x SO-646V5	N/A
Jul-03	HV2856	1000	C - New & Existing Equipment	7 x I-656C5TB	2 x SO-648CM	N/A
Jun-03	HV2856M	1312	C - Existing Equipment	7 x I-656C5TB	2 x SO-648V	N/A
Jun-03	VV2752B	900	C - New & Existing Equipment	7 x I-644C5TB	3 x SO-644V5	N/A
Apr-03	AAE	2000	M - New & Existing Equipment	50 x I-620MM	20 x SO-620C	N/A
Dec-02	HVS2628M 3 Stage	600	M100 - New & Existing Equipment	10 x I-628A4TB	8 x SO-616GS	40 x CDF-215K
Nov-02	HV2856	1000	M100 - New & Existing Equipment	7 X I-656A4TB	2 X SO-648CM	N/A

## Questions & Answers

**Q** Is construction clay a surfactant?

**A** The strict definition of a surfactant or surface-active agent is an **organic** compound that is attracted to solid-liquid surfaces and fluid interfaces. Clays are completely inorganic; there is no carbon in them, so they are not true surfactants. However, small particles of clay can stabilize liquid/liquid emulsions. If the particles are small enough (submicron) they can be partially wet by the fuel and partially wet by the water. This causes them to remain at the interface of fuel/water droplets. Coalescence of droplets of water is then hindered due to the physical obstruction of the small particles. The droplets can't approach close enough to each other to quickly coalesce.

**Q** Is it possible to back flush the filters in a pre-filter vessel to flush out particulates into a slop tank? If so, would it help to extend the life of the filters? Would the filters be crushed or damaged with a flow going the opposite way?

**A** The cartridges are only designed for out to in flow and reverse flow would severely damage the integrity of the cartridge. Our experience with cleaning this type of filter media indicates that life extension is very limited as the particles are normally captured in the depth of the media- this makes it very difficult to remove and still retain the efficiency of the cartridge.

# AVIATION INDUSTRY EXPO™

## Show Dates & Hours:

Tues., March 28, 10:00 am - 5:00 pm

Wed., March 29, 10:00 am - 5:00 pm

Thurs., March 30, 10:00 am - 2:00 pm

## Velcon Exhibiting at the Aviation Industry Show in Las Vegas

In March, 2006, Velcon Filters, Inc. will be participating in the Aviation Industry Expo (formerly called AS3). This year the show is being held in the Las Vegas Convention Center, adjacent to the Las Vegas Hilton. **Velcon's booth number is 6051.**

We look forward to see you there!



*Ed Calhoun, Gene Johnson, Sam Ngiam, Robin Mason, & Mark Hoye pose for a photo at the 2005 Aviation Industry Show last March.*

Velcon Filters, Inc.

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If you know anyone who would like to receive *The Clarifier*, fax 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*.

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