

THE CLARIFIER

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Vel-Max ~ New Velcon Housing for a Wide Range of Fueling Applications

Velcon introduces to the fuel handling industry a new all-purpose vessel housing, Vel-Max. Compact, with a simple design, the new Vel-Max housing can be used for mobile refueling equipment, fueling cabinets, or fixed fueling installations. It can also be used as a prefilter, monitor or filter/separator vessel, with applications for jet fuel, avgas, diesel fuel, motor gasoline and kerosene.

VEL-MAX FLOW RATES FOR DIESEL FUEL

MODEL	FILTER/SEPARATOR	PREFILTER	MONITOR
VX-1	27 GPM	66 GPM	50 GPM
VX-2	50 GPM	133 GPM	100 GPM
VX-3	75 GPM	200 GPM	150 GPM



Shelf Life: Pleated Paper Separator & Other Filter Cartridges

Regarding shelf life of filter cartridges, first of all, it is extremely important that all cartridges are kept in their original packing and kept stored in a dry environment and away from the sun. Avoid extreme temperatures and moisture. Also ensure that cartridges are used in rotation. Most cartridges if stored correctly should be suitable for use up to five years. It's always wise to check gaskets, examine the seams and end cap adhesive.

Paper separator cartridges should receive careful attention and should be placed in service within one year of receipt.

HydroKit® Mark II



Velcon also introduces to the fuel handling industry the HydroKit® Mark II for detecting free water in jet and diesel fuels. Mark II kits are similar in every way to our popular Hydrokit®, except that they have a longer shelf life than our regular Hydrokits®, two years instead of one year. These will be available for shipment in mid-July. Contact our order entry department for details.

Velcon

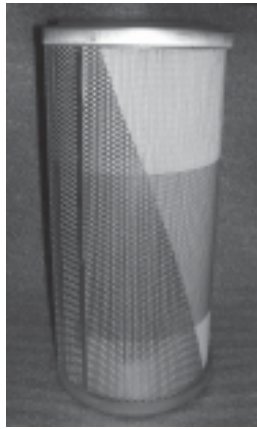
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New FOH, FSH, & FOG Filter Cartridges

Velcon recently introduced several new cartridges to the fuel filtration market to meet specific needs. FOH & FSH Cartridges are long-lasting, high capacity filter cartridges that offer customers up to three times greater solids capacity than our other pleated paper cartridges. The FSH cartridges are made with a synthetic media as opposed to the paper media of the FOH cartridges. FOH Cartridges also have an optional protective metal outer shell.



FOH Cartridge, showing a cutaway of the optional metal outer shell



FSH Synthetic Media Cartridge

Gasohol Applications

Gasohol is gasoline blended with approximately 10% alcohol, usually ethyl alcohol but it may also be methyl alcohol, or the oil company may have a proprietary alcohol blending agent such as oxinol. The presence of the alcohols prevents the super-absorbent materials currently used in filters such as our **Aquacon®** cartridges from absorbing water. For this reason, we

do not recommend the use of absorbent cartridges to remove water

We do not recommend the use of absorbent cartridges to remove water from gasohol.

from gasohol. Good system housekeeping can help minimize the presence of free water. Routine draining

of vessel sumps, low spots, and dead areas in the system piping can help to keep free water slugs from accumulating in the system.

For gasohol applications, Velcon has developed the FOG series filter cartridges. These cartridges can safely be used to remove particulate solids from gasohol.

CDF® Cartridge Update

A new outer jacket has replaced beaming paper on our CDF Cartridges. The new jacket is manufactured from a synthetic mesh and incorporates a sewn longitudinal seam. You may still use CDF cartridges with beaming paper. You may interchange cartridges with the beaming paper and cartridges with the new outer jackets.

Additionally we completed tests on an alternative end cap design. This new black end cap incorporates features that will allow us to meet the proposed amendment of API/IP 1583 4th Edition that would require

the end-to-end electrical resistance of an un-used dry cartridge to be less than 6×10^9 ohms.

The model number for a cartridge with the new conductive black end caps and white outer jacket will be CDF-2xxKR.



Velcon Service Awards

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

35 Years
Carl Brandt

25 Years
Jenell Shell

20 Years
Jim Head

10 Years
Rina Castaneda
Janice Hulsey

FILCare Notice

As of Sunday, May 1, 2005, the FILCare recycling service for used cartridges has relocated to the following new address:

Filter Cartridge Recycling Service
3705 Sinton Road
Colorado Springs, Colorado 80907
Contact & Questions: 719-499-1379 / FAX # 719-471-4861
Email: smj@electricalexcellence.com



You may have in your possession information that Velcon Filters had mailed to you in the past, with a different address listed. Please contact Jackie Nunn, 800-531-0180 or vfsales@velcon.com, if you would like to get updated shipping labels and bills of lading.

We'd also like to take this opportunity to remind you that a completed FILCare pack list is required, and this pack list must be affixed to the OUTSIDE of the package. Otherwise the package will be returned to you, unopened. Please contact us at Velcon Filters, Inc., if you have any questions. See also data sheet #1757 for more details about FILCare Cartridge Recycling.

Ray Branum, Velcon Distributor, Retires



On May 1, 2005, Branum, Inc., Velcon's distributor for North and South Carolina, closed its doors, and owner Ray Branum retired. Ray was a Velcon distributor for over 20 years, and he will be missed by his many customers. In addition to serving Velcon as a distributor, Branum was also the location of Velcon's FILCare Recycling program. Please join Velcon in wishing Ray much enjoyment in his retirement years! Aftec, Inc. will be replacing Branum as Velcon's distributor for North & South Carolina.

Q What effect does a reduced interfacial tension value have on coalescer performance and life? Does fuel with additives such as the military use (JP8+100) cause a reduction in interfacial tension of the fuel and if so, does the reduction affect the performance and life of coalescer cartridges?

A The IFT is not a perfect predictor, and it just measures one parameter of emulsion stability (ease in creating an emulsion). We have added Stadis 450, DCI-4A, Di-EGME, and Spec Aid 8Q462 (+100 additive) to fuel and see typical reduction from 42 IFT to 30 IFT as well as MSEP readings of Zero (compared to 90+ for fuel with no additives). Up to now, cartridge technology has not handled this chemistry very well. Velcon has developed improved cartridges with better surfactant resistance such as our I-6XXA4(TB) series coalescers that, in combination with reduced flow rates, can effectively remove dirt and free water as well as provide good service life in military fuels with very low IFT and MSEP values.

Questions & Answers

Q Do you know if API specifications require that all elements be marked with permanent ink on each element. I know that Velcon has labels on the outside plastic wrap with the part number, etc. but didn't know if they actually stamped or labeled each element on the end caps.

A Yes, section 3.2.3.3 of API 1581 requires each ELEMENT to have a permanent marking on it, with model number and date of manufacture. We have permanent ink marking on all cartridges, either on the end cap or the gasket.

If you have any questions concerning fuel handling or filtration issues, please send them to vfsales@velcon.com and we will reply, as well as add them to future Q&A of this newsletter.

API/IP 1581 5th Edition Testing in Colorado Springs

In 2005 Velcon will continue testing for various configurations of vessels in order to comply with the 5th Edition of API/IP 1581 for filter/separator vessels. Our Fifth Edition vessels are now being installed in Newark Int'l Airport, Bangkok's new Suvarnabhumi Airport, Heathrow's T5 Terminal, and Seattle-Tacoma Int'l Airport.



New installation in Suvarnabhumi Airport, Bangkok, Thailand



A large group of people attended our November 2004 API/IP 1581 5th Edition Testing for vessels destined for Newark Int'l Airport

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

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