

THE CLARIFIER

Volume 11 Number 2

July 2000

Velcon Filters Recommended for Approval for ISO 9001 Registration

Velcon Filters is proud to announce the completion of its ISO 9001 registration audit.

Lloyd's Register Quality Assurance audited Velcon's Quality System and manufacturing efforts in both the Colorado Springs and Sylacauga,

Alabama plants, and both assessors enthusiastically recommended that Velcon be registered as compliant with the ISO 9001 standard.

Velcon President Dave Taylor remarked, "We've always been proud of our ability to react quickly and effectively

to our customers' needs. Achieving ISO 9001 registration will contribute significantly to our on-going efforts to dazzle our customers. This is only the first step. We're looking forward to implementing the spirit of continuous improvement that the ISO standard demands to serve our customers even better."

(More details in the next Clarifier.)

Military Refuelers : Conversion to Aquacon Cartridges

To meet the exacting requirements of removing water from additive fuels during "into-plane" fueling, the military are converting a large number of their into-plane refueler vehicles from standard F/S vessels containing coalescers and separators to water absorbing cartridges. This is occurring at all the bases using the JP-8+100 fuel, and at a number of other bases using the "plain" JP-8.

Listed below are the refueler designations and the Velcon Aquacon® cartridges for retrofitting:

R-9 Fitted with a F/S vessel that takes 30 each DOD coalescers (stacked 2 high on 15 stools), each stack fitted with an inside-to-out flow TCS canister. Remove the 15 canisters and DOD (4330-00-983-0998) coalescers. Replace with 15 each ACI-44001D cartridges. On a one-time purchase, buy 15 each P/N GTP-5935-M "plugs" from Gammon Tech, (gammontech@gammontech.com, 1-732-233-4600). These "plugs" fit in the top blind caps of the ACI-44001D cartridges to help center the elements under the spider. The canisters are not reinstalled.

R-11 (Oshkosh) Same as the R-9 above.

R-11 (Kovatch) Fitted with a horizontal Beta filter/separator vessel containing 6 each I-63387TB coalescers and 2 each SO-636CM separators. Replace the coalescers with 6 each ACI-63301DTB cartridges.¹

HSV-12 Fitted with a horizontal Velcon F/S vessel containing 7 each I-65683TB#P coalescers, and 2 each SO-648V separators. Replace the coalescers with 7 each ACI-65601DTB cartridges.¹

To meet the exacting requirements of removing water from additive fuels during "into-plane" fueling, the military are converting a large number of their into-plane refueler vehicles to water absorbing cartridges.

R-12 Fitted with a horizontal Beta filter/separator vessel containing 6 each I-65687TB coalescers and 2 each SO-648C separators. Replace the coalescers with 6 each ACI-65601DTB cartridges.¹

¹ The separators can stay in place or be removed - customer preference.

NOTE: The deckplates on the F/S vessels above are not certified for a 15 bar hydraulic test (per IP Monitor Spec.). Consideration should be given to installing a differential pressure limiting device set at about 30 psid. This can be a special direct reading differential pressure gauge with set switch which activates a control valve to close, or turns off the pump; or a slug valve with differential pressure limiting function integral to the valve.

CONTENTS

Filter/Separator Inspection Procedures.....	2, 3
Velcon Critter Winners — AS ³ Tampa.....	4

Filter/Separator Inspection Procedures

In case you were not aware, Velcon employees spend a good part of the year traveling to various seminars, giving presentations that educate customers, distributors, and others throughout our industry. We have come up with several new presentations recently and, from time to time, will feature them in issues of *The Clarifier*. In this issue, we are featuring our "Filter/Separator Inspection Procedures" presentation. We owe special thanks to **Don Feeney, Exxon Mobil**, for his inspiration and assistance with developing this presentation. If you would like a copy, please contact **Julie Brewster**. We have it available in hard or soft format.

The following procedures should catch most problems encountered in the F/S vessels after they have been opened for inspection.

Check vessel bottom for sediment and/or foreign materials (any sediment downstream of the coalescers indicates a PROBLEM).



Check the condition of the spider plates. They should be secured properly and in good condition.

Fire could be caused by filling the vessel too rapidly or by getting excess air in the vessel from upstream.



Remove air from F/S prior to introducing normal flow rate.

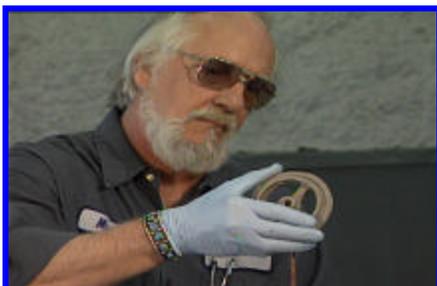


The air is not purged out. Notice the static charged mist.



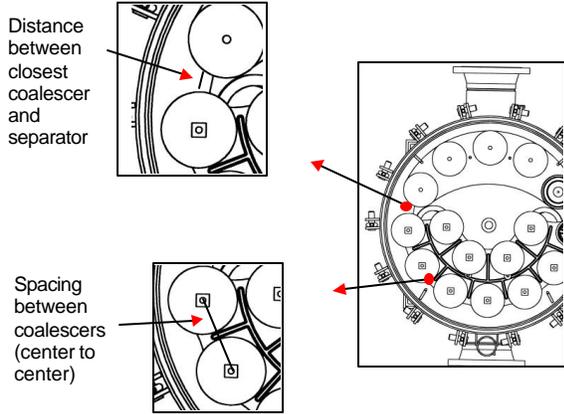
Enough charge can result in a fire.

Check that the coalescers and separators are secured properly to prevent bypass. Spacers should be properly inserted between the stacked elements.



Filter/Separator Inspection Procedures, continued

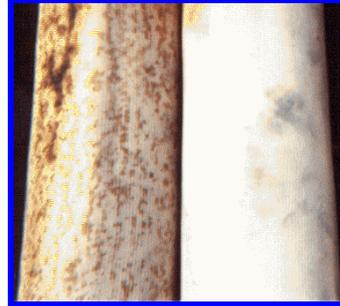
Check that the elements are properly spaced to allow water fall-out. Elements sometimes need to be moved before tightening of the spider for proper spacing.



Check for proper torque of screw base coalescers and nuts on tie rods securing open end elements. Operators should have a torque wrench.



Model numbers on the elements must agree with records. Check that they meet any applicable standards, e.g., API 1581 or IP Monitor Spec.).



Excess spotting on the elements indicates microbiological growth. Bulges on the coalescers indicate a burst element.



Check that the epoxy lining of the vessel is in good shape. Also, to prevent leaks, check that the lid gasket is in good shape.

Check that the separator has not been disarmed and will properly repel water drops. Run the water test if in doubt.



Observe re-assembly of the vessel to insure that the operators know proper procedures, proper element handling procedures, and slow filling of the vessel to guard against internal fires.

Velcon Critter Winners — AS³ in Tampa

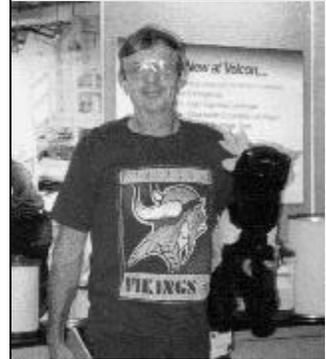
The following people were the lucky recipients of the Colorado Wildlife Critters which were raffled off at the AS³ Show in Tampa in early May. Congratulations!



Penny Ellis,
Int'l Marketing Director
Applied Technology, Inc.



Susan Thanepohn,
Office Manager
Air BP



Jerry Padrnos,
Liquid Fuels Maintenance,
Patrick AFB, FL

If you know anyone who would like to receive *The Clarifier*, fax their name, company and address to:



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

Velcon Filters, Inc.
Attn: Julie Brewster
4525 Centennial Blvd. Colorado Springs, CO 80919-3350
Phone: (719) 531-5855
Fax: (719) 531-5690
e-mail: vfsales@velcon.com

Velcon Filters, Inc. is an Equal Opportunity Employer

BULK-RATE
U.S. POSTAGE
PAID
COLORADO SPRINGS, CO
PERMIT NO. 623

4525 Centennial Blvd
Colorado Springs, CO 80919-3350

