

# Velcon®



1210 Garden of the Gods Road, Colorado Springs, CO 80907  
Phone: (719) 531-5855 FAX: (719) 531-5690  
e-mail: vfsales@velcon.com / web site: www.velcon.com

## INSTALLATION Instructions

***CAUTION: DO NOT USE Aquacon® CARTRIDGES WITH  
JET FUEL CONTAINING ANTI-ICING ADDITIVES  
(Di-EGME, FSII, Fizzy®, Prist®)***

### **Aquacon® ACO/AC SERIES CARTRIDGES**

ACO & AC SERIES CARTRIDGE FLOW DIRECTION IS FROM OUTSIDE TO INSIDE.  
DO NOT FLOW IN REVERSE.

1. Shut off the pump.
2. Close inlet and outlet valves and open drain valve. Open the air eliminator or manual bleed valve and drain the vessel.
3. Open vessel after making sure the vessel is completely drained and remove old cartridges.
4. Wash down vessel interior using only the product that is being filtered and wipe clean.
5. Carefully remove new cartridges from cartons.
6. Place cartridge over the center rod making sure the cartridge is centered over guide bar or mounting adapter attached to the deckplate. The cartridge must be seated flat against the adapter or deck plate.
7. For vessels with stacked cartridges, place the first tier of filter cartridges in position at all bulkhead ports (per step 6). Insert center plate onto center rod and insert into each cartridge. Next, install the second tier of cartridges over the center plates. There must always be a center plate between every two stacked cartridges. Be sure the guides on each side of the center plate project into each cartridge.
8. When all cartridges are loaded, insert a sealing cap over each center rod.
9. Install rubber washer, flat washer, lockwasher, and nut in that order, onto each center rod. Tighten to 9 to 10 foot pounds of torque.
10. Inspect cover gasket, making sure it is usable. If not, replace with new gasket.

11. Replace cover and bolt down. The cover gasket will last longer if the bolts are not over-tight. If the vessel leaks on start-up, additional torque can be applied until the leak stops without putting undue pressure on the cover gasket.
12. Close drain valve.
13. With the outlet valve closed, slightly open the inlet valve and allow the vessel to fill SLOWLY. When the automatic air eliminator stops blowing air, the unit is filled. If the manual air bleed is used, keep the valve open until the fluid comes out, then close the bleed valve. Open the inlet valve fully.
14. Open outlet valve SLOWLY until desired flow rate is achieved.
15. After changing cartridges circulate flow through vessel for at least 3 minutes. Return fuel to storage. Use millipores to check for fibers and also check hose end strainers. Remove any contaminant that may be present.

**NOTE:** Be sure to check and drain the sumps frequently. We recommend that the upstream ("dirty" drain) be drained daily to prolong cartridge life.

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• **WARNING: Absorbent-type monitor cartridges will not remove water from** •  
• **fuel containing alcohol-blending agents (commonly called gasohol). For** •  
• **removal of solids, please use Velcon particle removal filters specifically made** •  
• **for gasohol. Consult your Velcon representative.** •  
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### OPERATING PROCEDURES

Please refer to Operating Procedures for Water Absorbing Cartridges,  
Velcon PN 09-923, Form 1839  
(Also refer to your company guidelines)