



Maintenance Instructions

Teflon[®] Coated Screen Separator Cartridges

DO NOT THROW TEFLON COATED SCREEN SEPARATOR CARTRIDGES AWAY WHEN CHANGING COALESCERS. These separators are designed to eliminate the costly practice of replacing paper separators. It is recommended, however, that the separators be inspected, tested and cleaned at every coalescer change to assure prolonged, effective separation life. The procedure for this is described below:

1. Throughout the entire procedure, AVOID LETTING SCREEN COME IN CONTACT WITH YOUR BARE SKIN, particularly after the cartridge has been cleaned. Hold the cartridge by the end-caps. If necessary to handle the screen during removal or installation, use a clean, dry, non-abrasive material, such as a poly-bag from one of the coalescers, between your hand and the screen.



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2. After removing the cartridge from the vessel, submerge it in clean fuel and gently scrub the entire screen surface with a soft bristle brush.



3. SURFACE INSPECTION. Holding the cartridge by the endcaps, visually inspect the entire surface of the screen for any nicks or cuts. If there are any visible flaws, they should be patched (see 6).



4. WATER TEST. Be sure that the separator is **fuel-wetted** before performing this test. Hold the cartridge by the end-cap at an angle, and gradually pour water over the entire screen surface. Do not spray the water and do not let it fall more than a distance of three inches before contacting the screen.

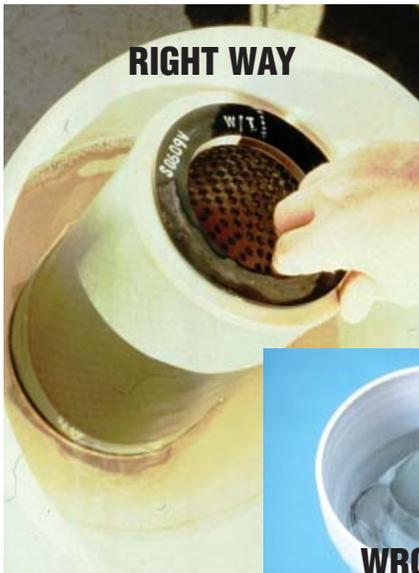
The water will bead and roll off the surface of properly functioning separators (as it would on a freshly-waxed car). If this is the case, the separator has passed the Water Test and can be reused.



If any portion of the Teflon coated screen is wetted by the water (the water will seep into the pores of the screen; this is very obvious to the eye), the cartridge has failed the Water Test. The wetted area must be cleaned again (see 7), and the recleaned cartridge should pass the Water Test before it is reinstalled.

NOTE: The separator in the photo above has been purposely disarmed to show a water-wetted surface.

5. If the separator passes the Surface Inspection and Water Test, rinse it thoroughly in clean fuel to remove traces of water. Let the separators air dry prior to reinstalling.



Handle cartridge carefully - do not touch the Teflon sides!

6. If a separator fails the Surface Inspection due to visible nicks, cuts, or other flaws in the screen that can be caused by mishandling, they can be patched if they are smaller than 1/8 inch (size of dot ●). Use two-part epoxy base putty. Thoroughly clean area with isopropyl alcohol before applying putty.

ALWAYS REPEAT THE WATER TEST TO INSURE A GOOD PATCH.

BE SURE THAT THE SEPARATOR IS FUEL-WETTED BEFORE PERFORMING THIS TEST.

7. If a separator fails the Water Test due to visible wetted areas, try washing the cartridge with hot water. Use pressurized hot water from a tap or hose and thoroughly spray the wetted area. Scrubbing with a soft rag or brush will often help on stubborn areas. Allow the cartridge to dry, then perform the Water Test again. If the cartridge continues to fail the Water Test, it must be replaced.

8. If gaskets should become dislodged, thoroughly clean gasket and end-cap surfaces with a solvent such as MEK or Acetone. Apply a super glue cyanoacrylate adhesive, such as Bostik #7432, to end-cap. Place gasket onto end-cap, applying pressure over entire surface of gasket. Let dry approximately 30 seconds.

9. **REMINDER.** While reinstalling the Teflon coated screen separators, be sure to avoid handling the screen with your bare hands. If you must handle the screen, use a clean, dry, non-abrasive material, such as a poly-bag. Be sure to remove all poly-bags prior to closing vessel.

NOTE: The above cleaning instructions are also applicable to the Velcon synthetic media separators. These can be cleaned a maximum of two times before they should be replaced.

Velcon

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