

This cartridge must be handled with care. Do not handle the outer surface of coalescers or separators unless wearing clean disposable gloves.

OPERATING PROCEDURES

Recommended Cartridge Change Out: (Follow your company's operating procedure and reference ATA-103 and JIG documents for further guidance)

Coalescer

When differential pressure reaches 15 psid (1.03 bar) or 12 months of service, whichever comes first.

Separator

- (a) Pleated Paper Type - When Coalescer is replaced
- (b) Synthetic Mesh or Teflon Screen Type - When Coalescer is replaced.

Note: The useful life can be extended to 36 months as long as the elements are cleaned and inspected according to manufacturer's instructions.

Micro Filter

Aviation Applications

When differential pressure reaches 15 psid (1.03 bar) or 12 months of service, whichever comes first.

Non-Aviation

When differential pressure reaches 25 psid (1.72 bar) or 3 years of service, whichever comes first.

Monitor

All absorbent monitors (FG-2xx-7, FG-O, and GNG) -

When differential pressure reaches 15 psi (1.03 bar) or 12 months of service, whichever comes first.

CAUTION: DO NOT USE MONITOR ELEMENTS WITH JET FUELS CONTAINING ANTI-ICING ADDITIVES.

INSTRUCTIONS FOR INSTALLING CARTRIDGES

Important: Confirm that the supply lines of the vessel are inoperative. Before opening vessel cover, ensure that vessel is properly drained and vented to atmosphere.

1. Remove vessel cover, extract and discard used cartridge.
2. Clean all vessel components, paying particular attention to inside surfaces. Use a lint free cloth to wipe down the interior.
3. Clean and examine all gaskets/o-rings and renew where necessary. On cartridges, always replace the rod gasket washer with the new one supplied.
4. Ensure that all sealing gaskets are correctly located.
5. It is important for the correct torque value to be used with each cartridge. When tightening the securing nut, it is essential that a torque wrench be used in this process. For screw base elements apply a thin coating of petroleum jelly to the inner threads before installation.

The following torque values shall be utilized:

- Open ended coalescers, 6" monitors and pre-filters (except CIF) to 10 ft. lbs. (13.6 Nm)
 - Screw base coalescers and to 30 ft. lbs. (40.7 Nm)
 - Separators and CIF pre-filters to 5 ft. lbs. (6.8 Nm)
6. For 2" monitors and elements with an o-ring seal, apply a thin coating of petroleum jelly to the o-ring before installation.
 7. All 6th Edition 1581 separator elements ending with "FD-5 & FC-5" have one end marked "Top". "Top" should always be mounted towards vessel closure, away from vessel cartridge stool.
 8. Refit and tighten vessel head cover in a star pattern in progressive increments until full torque is reached.
 9. Crack open the inlet valve, allowing the vessel to fill slowly with fuel until the air eliminator closes. On vessels equipped with a manual air bleed, allow the vessel to fill slowly until fluid begins to flow through the bleed valve. Fully open the inlet and outlet valves.
 10. While the unit is operating, check the pressure drop across the elements. There should be positive pressure. This ensures that all elements have been properly installed.

Monitor Flushing

When commissioning new monitor elements, it is recommended that the vessel be flushed with fuel for a minimum of five minutes at the maximum achievable flow (including four stop/start cycles) prior to putting the vessel back into service. After this process, the hose end strainer should be cleaned per industry recommendations.

Shelf Life / Storage Conditions

Elements should be stored in a dry environment in their original packaging. Storage in climate controlled rooms is not necessary, but continuous storage in excess of 113F (45C) should be avoided as this can cause the paper to become brittle. Any cartridges which show signs of exposure to moisture should be discarded.

Most elements, if stored correctly, have a shelf life of 5 years. Paper separators and water absorbent monitors are recommended to be put into service within 2 years of the date of manufacture. If you are unsure about any product, feel free to contact Facet for recommendations.

Element Service Life

For aviation, Facet recommends coalescer elements shall be replaced after 12 months or 15 psi (1.03 bar) Corrected Differential Pressure. Protocol for possibly extending their use past one year is published by JIG & A4A. Synthetic and Teflon separators may be reused up to 36 months, provided they are cleaned and tested annually in accordance with Facet procedures. Monitor elements must be replaced after 12 months of service or 15 psi (1.03 bar) Corrected Differential Pressure.

Guidance on Waste Element Disposal

Disposal of used elements shall be in accordance with local applicable environmental and company guidelines. See EI 1550 Chapter 21 for further discussion.

Contact Information

In case of questions regarding performance or quality of these elements, Facet may be contacted at +1 918-272-8700