

CARTRIDGE INSTALLATION

This cartridge must be handled with care. Any scuffing, tearing or other damage to the surfaces may have an injurious effect on its efficiency.

NOTE: When cartridge is installed in lube oil system, check sump oil level.

In order to ensure a constant clean supply through filter unit, care should be taken to renew the cartridge as follows:

Coalescer

When differential pressure exceeds 15 psi (1.06 kg/sq cm).

Separator

- (a) Pleated Paper type – When Coalescer is replaced
- (b) Synthetic Mesh or Teflon Screen Type – When Coalescer is replaced if not operationally efficient (See T/115 for Teflon & Synthetic Mesh).

Filter

When differential pressure reaches 20 psi (1.41 kg/sq cm).

Monitor

When differential pressure reaches 25 psi (1.76 kg/sq cm).

INSTRUCTIONS FOR INSTALLING CARTRIDGES

Important: *Ensure 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 hard (lint free) cloth.
3. Clean and examine all gaskets and renew where necessary. On cartridge, use the relevant sized washer (enclosed) and discard the other.
4. Ensure that all sealing gaskets are correctly located.
5. It is important that the replacement cartridge not be overstressed. When tightening the securing nut, it is essential that a torque wrench be used in this process. Apply a thin coat of petroleum jelly to the inner O-ring before installing. When "V" type sealing faces are featured in the vessel, tighten coalescer and filter cartridges (except CIF) to

10 lbs. ft. (13.6 Nm). Where flat face seals are featured in the vessel, tighten coalescer cartridges to 20 lbs. ft. (27.1 Nm) and filter cartridges (except CIF) to 15 lbs. ft. (6 Nm) for "V" type or sealing face and to 7 lbs. ft. (9.5 Nm) for flat face seals.

6. Screw-based coalescer and monitor cartridges should be tightened to a torque of 30 lbs. ft. (40.7 Nm).
7. Refit and tighten vessel head-cover.
8. 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. Then close the bleed valve. Fully open the inlet and outlet valves.
9. While the unit is operating, check the pressure drop across the elements. There should be some indication of a positive pressure, normally 1 or 2 psi. This ensures that all seals have been properly made during installation.