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INSTALLATION Instructions

“SO” SEPARATOR ELEMENTS

1. Close the inlet and outlet valves to the filter/separator vessel.
2. Open the air eliminator or manual vent valve and drain the vessel.
3. Open the vessel and remove the old separator elements.
4. Cut the new element's protective poly-bag at both ends.
5. Holding the new element with the poly-bag still protecting the element, place the element over the tie-rod. (The poly-bag protects the element from being disarmed by soiled or oily hands.) [Separators should be installed after the coalescers are installed, to prevent damage to the separators.]
6. Remove the poly-bag slowly from the element after it is in place.
7. Place the end cap over the tie-rod. (Not needed on SO-300V, SO-400V, SO-600VA, SO-600V and SO-600PV separators which have blind end cap already affixed.)
- *8. Place the new flat gasket over the tie rod. Discard the old gasket.
- *9. Place the flat washer, lock washer, and nut over the tie rod and tighten to 3-5 foot-pounds of torque. (Lockwasher will be flat.)
10. Replace the vessel cover gasket if necessary.
11. Making sure all poly-bags have been removed from the vessel, close vessel cover and tighten cover bolts securely.
12. Close the manual drain valve.
13. Start the pump system.
14. 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 vent, allow the vessel to fill slowly until fluid begins to flow through the vent valve. Then close the vent valve. Fully open the inlet and outlet valves.
15. While the unit is operating, check the pressure drop across the vessel. There should be some indication of a positive pressure, normally 1 or 2 psi or higher. This insures that all seals have been properly made during installation.
16. See Form 1242 for Teflon® Coated Screen Separator Cleaning Instructions.

*As a recommended alternative to the flat gasket, washers, and nut when using 3/8" diameter tie rods, Velcon offers part number K20A separator seal nut. This has an O-ring in its base to provide the seal. Tighten to 5 ft-lbs of torque.

PLEASE NOTE: The normal shelf life for pleated paper separators (for example, SO-xxxPLF3 and SO-6xxPLBZ) is ONE YEAR, provided they are free from shipping damage.

However, pleated paper separators can be used beyond the one year shelf life and will work properly providing they have been kept clean & dry, & stored in their original poly bags & boxes. Before installing pleated paper separators, closely examine the separator media for any damage that may have occurred during storage or handling. Contact Velcon if you have any questions.