DRYMASTER Replaceable Core Shells
Installation Instructions

1. Isolation & Evacuation

- **1.1 Evacuate Replaceable Shell:** Isolate the replaceable core shell and evacuate any trapped refrigerant.

2. Shell Access

- **2.1 Loosen Shell Bolts:** Carefully loosen the bolts securing the Drymaster shell lid. **Do not fully remove the bolts at this stage.**
- **2.2 Break O-ring Seal:** With the bolts slightly loosened, carefully release any residual pressure within the shell by breaking the seal of the O-ring.
- **2.3 Remove Lid Assembly:** Once depressurized, remove the lid, bolts, washers, and spring. Ensure all components are secured to prevent misplacement.

3. Core Assembly Removal

- **3.1 Extract Core Assembly:** Utilize the wing nut to extract the core assembly from the shell.
- **3.2 Dismantle Wing Nut Assembly:** Unscrew the wing nut from the connecting rod and plate.
- **3.3 Remove Inlet Plate:** Detach the inlet plate from the shell.
- **3.4 Remove Contaminated Components:** Remove the used core(s), filter media, and any associated gasket material. For shells containing multiple cores, remove the separator plates and gaskets between each core.
- **3.5 Internal Cleaning:** Conduct a thorough inspection and cleaning of all internal components within the shell.

4. Core Assembly Installation

- **4.1 Prepare New Core (Optional):** If installing a new core, it's recommended to lay out all internal components beforehand (refer to ***Figure 1***) to streamline reassembly and minimize exposure time of the new core to ambient air.
- **4.2 Install New Core and Gaskets:** Following ***Figure 1*** as a guide, install the new core and gaskets within the outlet screen plate. For multi-core configurations, incorporate additional cores, gaskets, and separator plates as necessary. Ensure the tapered end(s) of the core(s) face the outlet plate.
- **4.3 Reassemble Filter Unit:** Reinstall the inlet plate and tighten the assembly securely using the wing nut.

5. Drymaster Shell Closure Preparation

- **5.1 O-ring Replacement (Recommended):** It is highly recommended to replace the O-ring seal with a new one (Mueller part number P-37098).
- **5.2 O-ring Lubrication:** Apply a light coating of refrigerant oil to the new O-ring seal.
- **5.3 Spring Installation:** Refer to ***Figure 1*** to ensure proper placement of the spring, verifying it doesn't interfere with the wing nut operation.

6. Drymaster Shell Closure

- **6.1 Lid Alignment:** Align the slotted hole on the lid with the pre-installed bolt in the shell flange. Ensure the lock washer is positioned on the top side of the lid to facilitate installation of the remaining bolts.
- **6.2 Compress Spring and Install Bolts:** Compress the spring by pressing down on the lid. Subsequently, install and hand-tighten the remaining bolts and lock washers.
- **6.3 Final Bolt Tightening:** Following the torque pattern specified in ***Figure 2***, tighten all bolts to a maximum torque of 25 foot-pounds.

7. System Finalization

- **7.1 System Evacuation:** Perform a proper evacuation of the serviced section of the system.
- **7.2 Leak Detection:** Conduct a thorough leak detection test on the Drymaster shell assembly.
- **7.3 System Restart:** Upon successful completion of leak testing, restart the system and return it to normal operation.

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Figure 1: Assembly Sequence

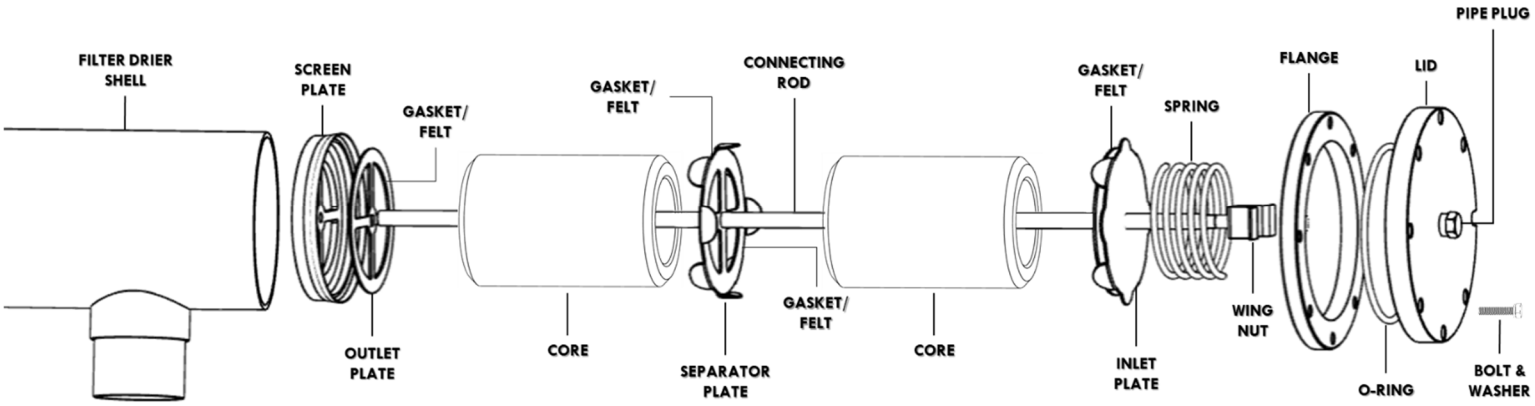

Figure 2: Bolt Torque Sequence