

EXCALIBUR SHIELD INSTALLATION

1. Install the corrosion weight loss coupon (or coupons) inside the Excalibur Shield cavity in the bottom plastic filter base adapter. Remove the SS filter cylinder, plastic coupon guard and then proceed by installing the ¼" x 2" coupon.
2. Thoroughly clean the 2" male threads at the upper end of the device, **use only Stainless Steel Pipe Thread Sealing Tape** and in conjunction with a **Thread Sealant** or Thread Gard sealant. Using these two products provide the best sealing capability.
3. Inspect the fine threads of the housing plug, remove debris and clean both female and male ends. Apply a sealant such as **Thread Sealant** or **Thread Gard**. **NOTE:** no stainless-steel pipe tape is needed at this thread connection.
4. Carefully Insert and screw in the Housing sediment plug into the bottom part of Excalibur Shield body, be careful not to cross thread.
5. Make sure both needle valves are closed and plugged.
6. Insert the Excalibur Shield below the safety isolation valve.
7. Slowly open the safety valve to pressurize the device and check for leaks.
8. Seal or tag the device if no leaks are present.

EXCALIBUR SHIELD REMOVAL

1. Close the safety product valve to isolate the Excalibur Shield from pipeline pressure.
2. Slowly bleed off existing pressure by opening the lower valve. In addition, have a container ready to collect liquid samples from the cavity.
3. After pressure has been released, continue to open the upper ventilation valve for better drainage of liquid samples.
4. If the isolation safety valve does not block off pressure, follow your company's safety procedure for clearing an isolation of a blocked valve.
5. After liquid samples have been acquired from the lower valve, continue by removing the lower housing sediment plug with a drain pan ready to capture any solids or liquid samples that may be present.
6. Remove the SS filter cylinder, plastic coupon guard and continue by removing the ¼" x 2" weight loss coupons, marking sure not to scratch or damage.
7. Remove the main Excalibur Shield body from the attachment and be ready to collect solid samples between the mouth of the Excalibur and the safety isolation valve.
8. Proceed by cleaning all Excalibur Shield components, making sure all previous liquids and solids have been removed.

NOTE: Clean the fine threads on the base adapter after each removal. Apply an anti-seize compound, such as ThreadGard to the threads. The O-ring is sufficient for sealing, tighten until the bottom meets the main cavity firmly.