

CAUTION: For proper performance, the tubing drain assembly must be installed at least 60 ft (18 m) or 2 pipe joints above the down hole pump for non-sand producing wells, and at least 120 ft (36 m) or 4 pipe joints above the down hole pump for sand producing wells. If the tubing drain assembly is installed closer to the pump than these requirements, and the well is pumped off, water hammer damage may impact disc performance. Fike will have no responsibility for any warranty claims or liability for damages of any kind arising from the tubing drain assembly to the extent it is not properly installed, as described above.

INSTALLATION

1. Carefully remove the packing materials from around the components. Inspect each component for any damage that may have occurred during shipping. Report any problems to your sales representative or Fike Corporation.
2. Clean all threads and sealing surfaces of dirt and debris.
3. Put a liberal amount of anti-seize compound on the threads of the Circulating Disc Assembly (CDA), see Figure 1. It is a good practice to put a small amount of anti-seize on the sealing surface. (Fike recommends mineral oil-based pastes containing solid lubricants, powdered metals and corrosion inhibitors. Two common ones are: Molykote 1000 Anti-Seize Lubricant by Dow Corning and Thred Gard Anti-Seize Compound Copper by Federal Process Company.)
4. Use a 7/8 Allen wrench to start the CDA into the Tubing Drain Sub using care to not cross thread the assembly.
5. Torque the CDA into the Tubing Drain Sub to a minimum of 150 ft-lbs (203 N-m) or a maximum of 180 ft-lbs (244 N-m).

MAINTENANCE

1. Before reusing a Tubing Drain Sub remove the burst CDA. Use extreme caution when removing the burst disc, the edges of the disc are very sharp. It may be necessary to bend the burst petals down into the assembly in order to fit the hex wrench.
2. Clean all threaded areas of the Tubing Drain Sub, and inspect those areas for any damage or burrs. If the side port threads are damaged the Tubing Drain Sub should be replaced, not reworked.
3. Check the sealing surface for any nicks, dents, corrosion or other signs of damage. If there are any signs of damage, hand polish with ScotchBrite, #400 grit aluminum oxide emery cloth, or #000 steel wool.

NOTE: If the sealing surface defect can not be removed by hand polishing, the Tubing Drain Sub should be replaced. Do not rework a damaged port. Damage to the sealing surfaces can result in leakage and/or poor disc performance.

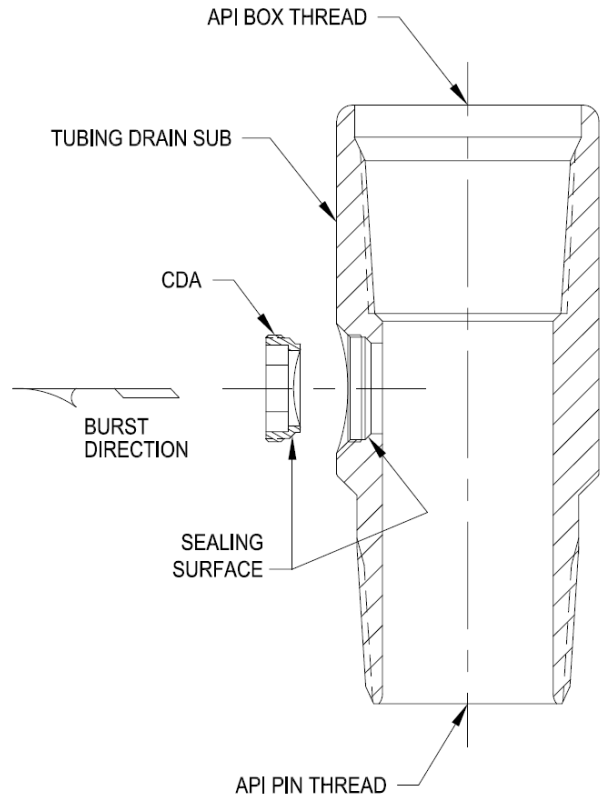


Figure 1 - Hydraulic Tubing Drain (HTD)

NOTE: CDA specifications and year of manufacture can be found on the CDA tag.

US patents 6,752,212 and 6,591,915 and foreign patents