

## Perfection Installation Instructions

### PERFECTION PERMALOCK<sup>®</sup> TEE

U.S. PATENT NOS. 4,730,636 & 4,809,735

U.K. PATENT NOS. 2199271 & 2234693

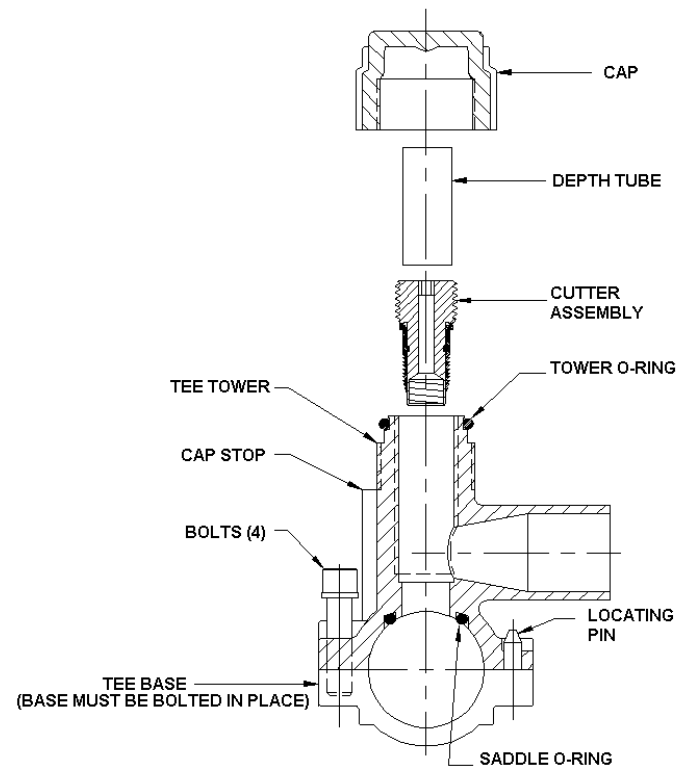
1. Remove TEE ASSEMBLY and DEPTH TUBE from the bag (check tee for TOWER and SADDLE O-RINGS).
2. Clean surface of main where TEE is to be installed. Avoid areas that are gouged or damaged. Lubricate SADDLE O-RING and main surface with leak test soap solution or silicone grease.
3. Bolt TEE onto PE main and tighten until the corners touch using a cross over tightening pattern (a gap between the flanges in the locating pin area is acceptable).
4. Connect service to the TEE TOWER outlet.
5. Test tee/service assembly in accordance with your company's standard leak test procedures.
6. Place DEPTH TUBE on top of the CUTTER ASSEMBLY. Thread CUTTER ASSEMBLY downward using a 5/16" hex wrench. Continue threading the CUTTER ASSEMBLY downward until it becomes snug. The DEPTH TUBE will be flush to 1/8" above the top of the TEE TOWER.
7. Thread CUTTER upward (counterclockwise) until top of CUTTER is flush with the top of the TOWER. This will gasify the service (Discard the DEPTH TUBE at this point).
8. Install CAP on the tower, hand tighten to CAP STOP.

Note: This product is designed to be installed by qualified installers. Qualification training manuals are available by writing or calling the Gas Sales Department of Perfection Corporation.



A Subsidiary of American Meter Company  
222 Lake Street  
Madison, Ohio 44057-3189  
Fax 440-428-7325  
440-428-1171

[www.perfectioncorp.com](http://www.perfectioncorp.com)

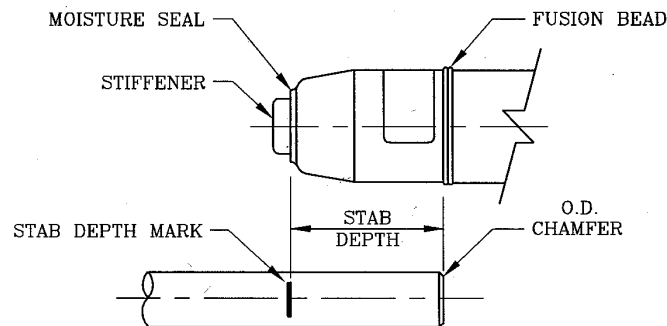


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### THE PERFECTION PERMASERT® NON-CORROSIVE MECHANICAL COUPLING U.S. PATENT NOS. 4,229,025; 4,282,175 & 4,628,965

1. Cut the PE piping so that the end is square.
2. Wipe the piping with a dry, clean cloth.
3. Inspect the last several inches of PE piping for damage. If any, cut again to remove damaged area.
4. Using a chamfer tool, chamfer the end of the pipe.
5. Use a soft marking utensil (felt tip pen, crayon, etc.) to mark the pipe at the proper distance from the chamfered end. This is called the stab depth.

The stab depth is the distance from the fusion bead to the end of the coupling body as shown.



6. Stab the pipe into coupling until it bottoms. The stab depth mark must be:
  - Within 1/8" of the moisture seal on 1/2" CTS and 1" CTS sizes
  - Within 1/4" of the moisture seal on all other sizes through 1-1/4" CTS
  - Approximately 3/8" from the moisture seal on 1-1/4" IPS and 2" IPS sizes
7. Pressure test the finished joint according to your standard operating procedure. The stab depth mark can move outward up to an additional 3/8" during pressure testing.



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