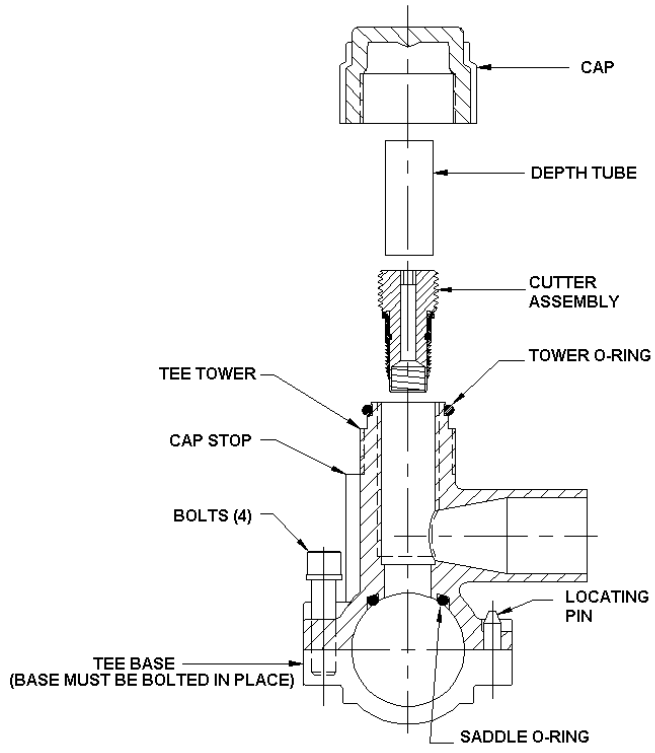
Perfection Installation Instructions

PERFECTION PERMALOCK® 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). **NOTE**: A blue colored depth tube is required for 1 1/4 IPS main installation, and a white colored depth tube is required for 2-4 IPS main installation. If you do not have the proper color depth tube, **DO NOT** install the fitting.
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 crossover 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 is a visual guide and will be approximately flush with the top of the Tee Tower when the cutter is snug.
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 must be installed by qualified personnel. Qualification training materials are available by writing or calling the Gas Sales Department of Perfection Corporation.

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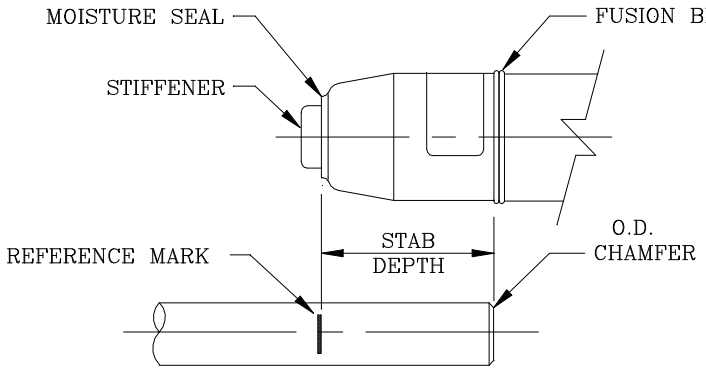
Perfection Installation Instructions

THE PERFECTION PERMASERT® NON-CORROSIVE MECHANICAL COUPLING

U.S. PATENT NOS. 4,229,025; 4,282,175 & 4,628,965

1. Cut off the tubing so that the end is square.
2. Wipe the tubing with a dry, clean cloth.
3. Inspect the tubing for surface defects.
   IF EXCESSIVE SCRATCHES OR GOUGES ARE VISIBLE, CUT OFF THE DEFECTIVE AREA AND REPEAT THE FIRST THREE STEPS.
4. Using a chamfer tool, chamfer the end of the tube.
5. Use a soft marking utensil (felt tip pen, crayon or grease pencil) to mark the tube 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 tube into coupling until it bottoms. The reference mark will be:

- Within 1/8" of moisture seal on 1/2" CTS through 1" CTS sizes
- Within 1/4" on 1" IPS and 1-1/4" CTS
- Approximately 3/8" on 1 1/2" CTS through 2" IPS sizes

7. Pressure test the finished joint according to your standard operating procedure. The reference mark can move outward up to an additional 3/8" during pressure testing.

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