



**Franklin Fueling Systems**

# Clamshell Secondary Test Boots (STB-XXX) & Swage Secondary Test Boots (STB-SW-XXX) Installation Instructions

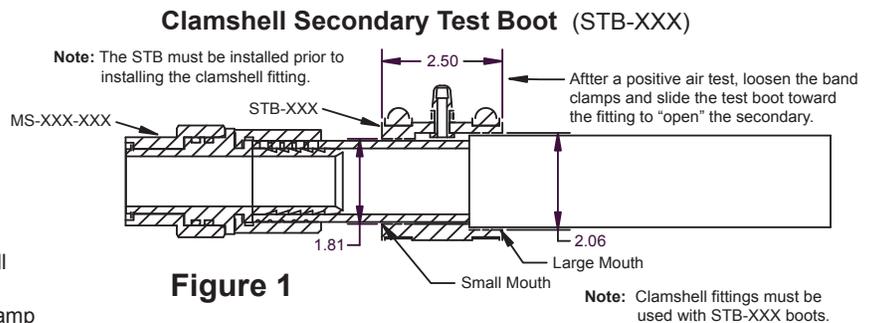
**Warning**  Follow all federal, state and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage, environmental contamination and/or system degradation.

## Clamshell Secondary Test Boots

1. After pulling the piping on the site, cut it at each intermediate dispenser sump as required.
2. Preassemble the hose barb portion of the fittings into the tees or elbows per the fitting installation instructions.
3. Square off and de-burr the end of the pipe. If you are using SC (Secondary Contained) piping, cut back the scuff guard layer to the sump wall (approximately 9" in dispenser sumps) and cut back the SC layer 4½". For further cutback details, see the process's complete description in the *DWC-XXX Double Wall Cutter (SC) Installation Instructions* or in APT's *Installation Guide Overview*.
4. Push the pipe through the appropriate entry boot in the sump wall and slide the Secondary Test Boot over the pipe. Clamshell STBs must be oriented so the larger mouth is facing the pipe secondary (See Figure 1).
5. Connect the STB assemblies to the SC jacket and the primary pipe by tightening the band clamps.
6. Continue assembling the fittings as per the fitting installation instruction. Push the end of pipe over the barbed fitting and attach it per the fitting installation instructions.
7. If you're using By-Pass Tubes (BPT-100) to test an entire run of pipe, attach each end of a BPT-100 to the air valves of each inline STBs.

**Note:** When using a BPT-100 to air test an entire run, make sure not to kink or squeeze the tubing during testing. Reducing airflow through the BPT-100 while testing may result in inaccurate test results.

8. Perform a 5 to 8 psi secondary air test with all test boots attached.
9. If a pressure loss is detected, use soapy water to check all connections for the leak point.
10. Once the air test has been passed, loosen each band clamp and slide the STB back towards the clamshell fitting.



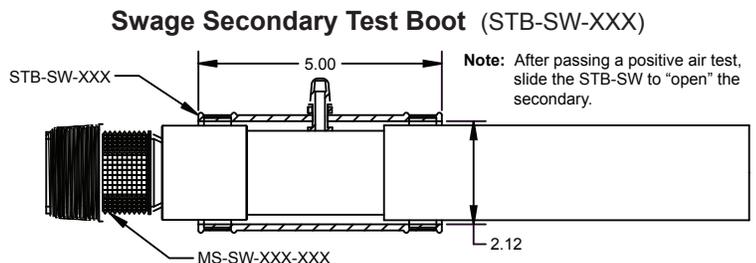
**Figure 1**

## Swage Secondary Test Boots

1. After pulling the piping on the site, cut it at each intermediate dispenser sump as required.
2. Square off and de-burr the end of the pipe. If you are using SC (Secondary Contained) piping, cut back the scuff guard layer to the sump wall (approximately 9" in dispenser sumps) and cut back the SC layer 4½". For further cutback details, see the process's complete description in the *DWC-XXX Double Wall Cutter (SC) Installation Instructions* or in APT's *Installation Guide Overview*.
3. Swage on the connection fitting per the swage fitting installation instructions.
4. Push the pipe through the appropriate entry boot in the sump wall and slide the Secondary Test Boot over the fitting and pipe. One end of the test boot must cover the secondary jacket; the other end will cover the swage fitting collar. No specific orientation is required (see Figure 2).
5. Thread the swage fitting into its mated fitting.
6. Connect the STB assemblies to the SC jacket and the swage fitting by tightening the band clamps.
7. If you're using By-Pass Tubes (BPT-100) to test an entire run of pipe, attach each end of a BPT-100 to the air valves of each inline Secondary Test Boot.

**Note:** When using a BPT-100 to air test an entire run, make sure not to kink or squeeze the tubing during testing. Reducing airflow through the BPT-100 while testing may result in inaccurate test results.

8. Perform a 5 to 8 PSI secondary air test with all test boots attached.
9. If a pressure loss is detected, use soapy water to check all connections for the leak point.
10. Once the test is passed, loosen each band clamp and slide the STB back.



**Figure 2**

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