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.

Clamshell Secondary Test Boot (STB-XXX)

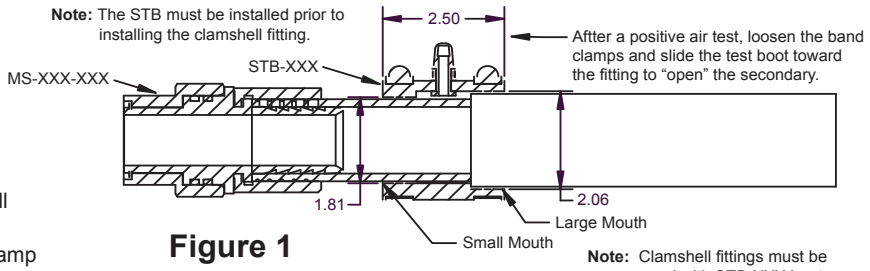

Figure 1

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 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 test is passed, loosen each band clamp and slide the STB back.

Swage Secondary Test Boot (STB-SW-XXX)

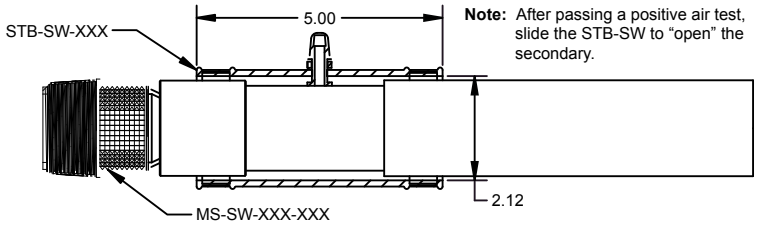

Figure 2

Secondary Containment Boots (SCB-XXX) for NYC (COA#4931)

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.**

SCB (Secondary Containment Boot) products are used to connect the secondary jackets in intermediate sumps to the sumps at the end of each run of APT SC piping. The SCB assembly replaces the Secondary Test Boots (STB) used to air test the secondary jacket on APT product piping. SCB-150, SCB-175, SCB-200 and SCB-250 are New York City Fire Department approved under the Certificate of Approval (COA) #4931. All piping installed under the jurisdiction of NYC Fire Dept. must be installed per NYC Building and Fire Prevention Codes.

NYC requirements

- All components used must be UL or ULC approved for petroleum liquids containing alcohols and other additives used for motor fuel.
- All flexible piping must be continuous between sumps and allow product to drain back to the tank sumps.
- SCB assemblies must be used in all intermediate sumps except those on the end of piping runs. STB boots must be used for these end sumps, and, under normal operation, pushed back to allow for drainage of the secondary jacket.
- Non-compliance of these requirements will be subject to enforcement action which may include fines and/or imprisonment.

Procedure

1. After pulling the piping on the site, cut the piping at each intermediate dispenser sump as required. Install the piping with a minimum of ⅛" per foot of slope with the tank sump being the lowest point in each run.
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 cut back 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.
5. Install the SCB assemblies in the intermediate sumps.

Note: Use STB boots in the sumps at the end of each run.

6. **In all sumps where SCB boot assemblies are used, APT recommends using fluid monitoring devices to detect possible leaks. APT will assume no liability when fluid monitoring devices are not used in conjunction with SCB boots.**
7. Continue assembling the fittings per the fitting installation instruction.
8. Connect the SCB assemblies to the SC jacket and the primary pipe by tightening the band clamps.
9. Perform a 5 to 8 PSI secondary air test with all test boots attached.
10. If a pressure loss is detected, use soapy water to check all connections for the leak point.
11. After the air test has been passed, pull off ONLY the STB boots on the end sumps. **Do not disconnect the SCB boot assemblies.** The SCB boots are intended to connect the SC jackets together in all intermediate sumps.

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