

GENERAL

Pressure Testable Heat Shrink Casings provide a field joint closure that can be pressure tested to verify its leak tight integrity.

Proper installation of heat shrink casings is critical to maintaining the insulation dry and providing a long life to the piping system.

When cold or wet weather conditions are present, tenting and / or heating may be required to enable the proper installation of the heat shrink casings. Refer to the Installation Manual Supplement for Cold / Wet Weather Conditions.

Refer to the appropriate PERMA-PIPE product Installation Manual for complete installation recommendations. This Installation Manual Supplement addresses the installation of Pressure Testable Heat Shrink Casings only.

INSTALLATION

CAUTION: Pressure testable heat shrink casings are tubular products. The heat shrink casing must be positioned over the end of the piping prior to the service pipe field joint being made.

Heat shrink casings are installed and pressure tested prior to pour foam insulating the field joint.

Pressure Testable heat shrink casings should be installed in accordance with the manufacturer's Installation Instructions. PERMA-PIPE uses two (2) different types of heat shrink casings;

- Raychem (IsoPlus) RayJoint
- Canusa SuperCase (180 mm thru 1000 mm)
(63 mm thru 160 mm)

Manufacturer's Installation Instructions for each of these types of heat shrink casings are included with this Installation Manual Supplement.

Check the manufacture and type of the pressure testable heat shrink casing you will be installing and use the correct Installation Instructions for that heat shrink casing. Contact PERMA-PIPE if the heat shrink casing is not one of the above.

HEAT SHRINK CASING

-HEAT SHRINKING TECHNIQUE

Before starting heat shrink casing installation, become familiar with the following technique for shrinking a heat shrink casing;

- Wear heat resistant gloves whenever working with the propane torch.
- The propane torch flame should be kept at least 6 inches away from the heat shrink casing and at an angle to the surface. Holding the propane torch at an angle allows the flame to bounce off the heat shrink casing and decreases the local intensity of the heat. If the flame is held too close to the surface, the heat shrink casing may burn or the insulation jacket may be damaged.
CAUTION: When installing heat shrink casings onto plastic (PVC, HDPE, FRP, etc.) insulation jackets, be careful not to burn or char the plastic. Repair or replace any damage.
- Use your body as a shield to protect the flame from the wind. Keep the propane torch at an angle to the heat shrink casing and pointed in the direction the wind is blowing to maintain a fairly even flame. **Do Not** increase the size of the flame, this could overheat and burn the heat shrink casing.
- Keep the propane torch in constant motion. **Do Not** burn the surface.

INSPECTION AND TESTING

After installation of the heat shrink casing, visually inspect the heat shrink casing to verify it has been properly installed and is completely sealed onto the insulation jacket.

Pressure test the heat shrink casing in accordance with the heat shrink casing Installation Instructions.

FIELD JOINT POUR FOAM INSULATING

Pour foam insulate the field joint in accordance with the appropriate PERMA-PIPE product Installation Manual.

POUR FOAM CLOSURES

After pressure testing and pour foam insulating, install the pour foam closure plugs in accordance with the heat shrink casing Installation Instructions.

Visually inspect the pour foam closure plugs to verify they have been properly installed.