

## Sealed System (USDA) for Fitting Covers and Jacketing Installation Details

All piping fittings shall be insulated by filling the total void over all fittings, between straight runs of pipe insulation, with Speedline® die cut fiberglass insulation, forming a uniform insulation thickness equal to, or exceeding, the adjacent pipe insulation.

Finish all insulated pipe fittings by applying Speedline® Smoke Safe™ Heavy Duty PVC Fitting Covers overlapping the adjacent pipe insulation outer covering. Seal the throat of the PVC Cover by laying a bead of Speedline® Solvent Weld Adhesive on the underside of the overlap.

Install pre-curved cut-to-size 20 mil or 30 mil Speedline® Smoke Safe™ Jacketing with the end overlapping the Heavy Duty PVC Fitting Cover by one or more inches and each progressive section likewise overlapping the prior section. All longitudinal and circumferential overlaps shall be sealed by laying a bead of Speedline® Clear or White Solvent Weld Adhesive on the underside of the overlap. The sealed laps shall be held firmly in place for at least 10 minutes of initial set; final cure occurs over the first 10 hours.

An allowance for expansion shall be provided on all sealed system applications by providing slip-joints as required between rigid pipe supports, on long pipe runs, etc. Slip-joints shall be 6 to 8 inch jacketing overlaps sealed with non-hardening mastic.

### Hot Systems

Caution should be exercised to be sure that the insulation surface temperature is maintained below 150°F (66°C) through the application of sufficient insulation under all PVC Covering. The PVC Fitting Covers and Jacketing should be further protected from any direct or radiant exposure to heat exceeding 150°F (66°C).

**Note:** High temperature installation should incorporate slip-joints to compensate for thermal expansion and contraction of the piping system. Slip-joints can be performed by applying white flexible caulking to the overlap between jacket systems.

### Cold Systems

For refrigerant lines and colder, a vapor barrier jacketing will be provided under the outer wrapping of the PVC Jacketing. The fitting insulation should be vapor sealed with vapor barrier mastic prior to the installation of the PVC Fitting Cover.

