

Viega® GeoFusion Fittings

GeoFusion socket heat fusion fittings are intended and recommended for use in open or closed loop, ground source heat pump systems installed with IPS-OD, HDPE pipe manufactured to a minimum pressure rating of SDR11 or Schedule 40.

Scope

This product specification designates the requirements for GeoFusion high density polyethylene (HDPE) socket heat fusion fittings to be used as connections for Iron Pipe Size Outside Diameter (IPS-OD) controlled HDPE pipe in $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ", and 2" sizes.

Materials

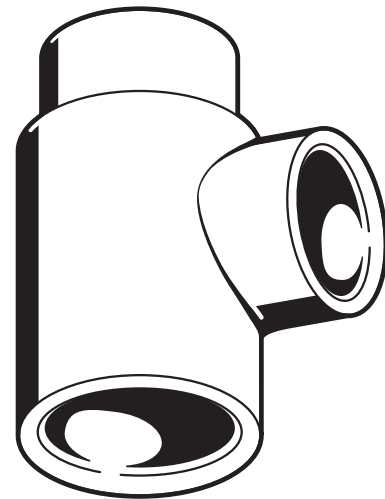
GeoFusion HDPE socket heat fusion fittings are manufactured from a bimodal polyethylene resin PE4710 with a cell classification, PE345564C per ASTM D-3350. This high performance resin exhibits enhanced performance properties including superior Slow Crack Growth (SCG) resistance plus improved tensile strength and modulus.

GeoFusion socket fusion by metallic adapter fittings are manufactured using machined components of brass alloy B360 per ASTM B-16 that are inserted into the molded polymer fitting body and attached by a stainless steel press ring.

Certifications

- ASTM D 2683
- NSF 358-1

UV Resistance: Viega GeoFusion fittings are produced using a minimum of 2% carbon black, a material used to protect PE products from the effects of UV radiation. Viega GeoFusion fittings can be used in exposed, above ground applications for indefinite periods of time and do not require protection from UV exposure during shipping, handling, storage, installation or use.



Fittings suitable for direct burial:

Model numbers - V9016, V9016.2, V9016.3, V9018, V9018.2, V9056, V9015, V9040

Fittings that are not suitable for direct burial (accessible location only):

Model numbers - V9016.5, V9016.4, V9018.8, V9018.5, V9018.6, V9018.7, V9011, V9015.3, V9015.4, V9049, V9013.1

***Note:** Accessible is defined as being installed in a manner that provides open access or may require the removal of access door or panel, e.g. fittings installed in a mechanical room or installed in a mechanical box within the ground.