Advanced PE Composite and Electrofusion Pipe Fittings for Gas Station Underground Systems

75,63 Terminal Connector

75,63 Terminal Detection Connector

90 Degree Double Layer 75,63 Capacitor Connector

Characteristics and construction precautions of PE pipe fittings

Feature performance description:

1. High elongation at break, good extensibility, and excellent scratch resistance.
2 Non-toxic, good toughness and high impact strength.
3. Good insulation performance, excellent wear resistance and chemical corrosion resistance.
4. Good thermal insulation and small medium flow resistance.
5. Convenient and economical to lay, safe and reliable to use

Things to note when constructing PE pipe fittings:

PE pipe fittings are an indispensable part of PE pipeline construction, and the connection between pipelines and PE pipe fittings is particularly important.

1. When connecting in cold climates (below -5 degrees) and windy environments, maintenance measures should be taken or the connection process should be adjusted.
2. Corresponding special heating machines should be used according to different interface methods, and open flames are not allowed to be used to heat pipes and PE pipe fittings!
3. Pipes connected by fusion should use pipes and fittings of the same brand and matching performance. Pipes and fittings with similar performance must be tested and qualified before construction can be stopped.
4. Before connecting PE pipes and pipe fittings, PE pipes, PE pipe fittings and facilities and equipment should be inspected according to design requirements, and inspected before the construction site. As long as the pipes and fittings meet the requirements, construction and use will begin. The main inspection items include product pressure level, surface quality, matching product quality, etc.

Advantages of Electrofusion pipe fittings:

1. The electrofusion process is fully automated, simple and safe to operate.
2. Good hygienic performance.
3. The high strength of electrofusion welding essentially guarantees the identity of the interface material and structure of the PE pipeline system and the pipe itself, achieving a high degree of integration of pipe fittings and pipes, ensuring no leakage at the interface, reliable connection without hidden dangers, and very durable, grind.
4. Good corrosion resistance and long service life

5. Small friction coefficient and low resistance
6. Good flexibility and scratch resistance
7. Good resistance to crack expansion
8. Good welding ability
9. Low installation cost, high efficiency and stable quality
10. The installation process is not restricted by environment and space.

Electrofusion composite pipe fittings connection instructions:

The polyethylene pipes and welded pipe fittings in the composite pipe system of the gas station are connected by electrofusion welding. Because this method is less affected by climate. This method is suitable for on-site installation at gas stations. Nonetheless, the welding site should be kept dry and clean during the welding process. When welding, the ambient temperature should be between -15ºC and +45ºC (+5ºF and +113ºF). At lower temperatures, it can only be done under conditions where the temperature is stable and protective measures are added. The principle of electrofusion welding is to heat the resistance wire under the inner surface of the welded pipe to a certain temperature (about 200ºC), and melt the PE (polyethylene) material inside the pipe and outside the pipe. Since polyethylene conducts heat slowly, only the material near the resistance wire is melted. melt. Under the action of temperature and pressure, the polyethylene in the melted area expands, and the surrounding low-temperature polyethylene material prevents the melted area from continuing to expand. In this way, the pipes are welded together evenly and firmly. When using a welding machine, the required power, heat and welding time are automatically calculated. Other welding machines cannot be used.