

HDPE Electrofusion Fittings

Embedded-Coil Couplers, Saddles, Tees and Reducers

Product Overview

Electrofusion fittings with embedded heating coils for joining PE100 pipe in confined spaces, on repairs and at service-line tappings. An EF welder applies controlled voltage and time to melt the fitting / pipe interface and create a fully traceable joint with QR-code logging. The default joining method for gas distribution above DN 90 in most national regulations.

Technical Specifications

Parameter	Specification
Material grade	PE100
Fitting types	Coupler · Reducer coupler · 90°/45° elbow · Equal tee · Saddle (tapping)
Diameter range	DN 20 – DN 630 mm
Voltage	39.5 V or 40 V (auto-detected by EF welder)
Traceability	Barcode + QR code with batch and pipe-fitting parameters
Joint logging	ISO 12176-4 compliant joint-data record per fitting
Standards	ISO 4427-3 · EN 12201-3 · ISO 4437 (gas) · WRAS · NSF 61
Reusability	One-shot — replace if a fusion attempt fails

Typical Applications

- Gas distribution networks (mandatory above DN 90 in most jurisdictions)
- Service-line tappings on live water mains (saddle fittings)
- Repairs in trenches without removing damaged sections
- Confined-space jointing where butt-fusion equipment doesn't fit
- First-time installer crews (less skill-dependent than butt fusion)

Standards & Certifications

ISO 4427-3

EN 12201-3

ISO 4437

ISO 12176-2

WRAS

NSF/ANSI 61

Why Primepoly

Real factory, not a trading company. Primepoly operates a fully-owned PE / PVC pipe and fitting factory in Zhengzhou, Henan — ISO 9001 quality plan, in-house QC lab, full hydrostatic test and material qualification on every production batch.

Documentation that clears consultant review on first submission. Every shipment carries the mill certificate, batch resin certificate, third-party inspection report (SGS / BV available) and the destination-specific compliance documents (WRAS / NSF 61 / SASO / PVOC / etc.).

Engineering support on every order. Our application engineers respond to technical queries within one working day. For distributor and project customers we send installer training to site for the first shipment.

Request a quotation

Send DN / SDR / length / destination port to sales@primepolypipes.com — engineering team responds within one working day with FOB or CIF pricing.