HDPE Fabricated Fittings

Large-Diameter Custom Mitre-Cut Elbows, Tees and Crosses

Product Overview

Where injection-moulded fittings are unavailable (typically DN > 800) Primepoly fabricates HDPE fittings on-site by mitre-cutting and butt-fusing pipe segments to the required angle. Each fabricated fitting carries the dimensional accuracy and hydrostatic pressure rating of the parent pipe — qualified per ISO 4427-3 Annex A.

Technical Specifications

Parameter	Specification
Diameter range	DN 200 – DN 2000 mm (fabricated)
Fitting types	90°/45°/22.5° elbow (segmented) · Equal/reducing tee · Cross · Reducer · Wye branch
Segments	2-segment to 6-segment (more = smoother curve)
Pressure class	Up to PN 25 — full parent-pipe pressure rating
Wall reinforcement	Increased wall thickness on bend segments for surge resistance
QC	Hydrostatic test 1.5× design pressure for every fabricated unit
Lead time	Stock items 7–10 days; custom 14–21 days
Standards	ISO 4427-3 Annex A · Manufacturer qualification per ISO 12176

Typical Applications

- Large-diameter water and gas mains (DN > 800)
- Mining slurry pipeline pump-station manifolds
- Dredging discharge-line geometry to barge / boom requirements
- Pipeline route bends sharper than standard pipe-bend radius
- Custom Y-branches and crosses for treatment plant manifolds

Standards & Certifications

ISO 4427-3 Annex A	AWWA C906	EN 12201-3	ISO 9001

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.