

Technical Data Sheet

PE Connection Systems — Electrofusion, Electrofusion PE-RT, PE/Steel & Butt Fusion Fittings

STRONIX connection systems provide complete jointing solutions for pressure water, gas, heating and infrastructure networks. Standard PE100 fittings are rated 10(5) bar gas / 16(10) bar water depending on SDR class; PE-RT fittings are rated for 10 bar hot water service up to 95°C.

1. Electrofusion Fittings (PE100)

Jointed using an electrofusion welding machine via integrated 4 mm pin connectors, with a visual weld indicator on every fitting. SDR11 (10 bar gas / 16 bar water) as standard; SDR17 also available on couplers and equal tees.



Fitting Type	DN Range	SDR	Notes
Coupler	25 – 630 mm	SDR11, SDR17	Standard straight pipe-to-pipe joint
Reducer	32 – 250 mm	SDR11	Joins two different pipe diameters
Elbow 90°	32 – 450 mm	SDR11	Directional change
End Cap	25 – 160 mm	SDR11	Pipe termination / end closure
Tapping Tee	Main 63 mm, branch 25–50 mm	SDR11	Integrated cutter for live (pressure) tapping
Saddle Branch	40/32 – 110/90 mm	SDR11	Clamp-on branch connection to existing main
Equal Tee	20 – 160 mm	SDR11, SDR17	Three-way, equal branch diameter
Reducing Tee	110 mm+	SDR11	Three-way, reduced branch diameter

2. Electrofusion Fittings PE-RT

Manufactured in heat-resistant polyethylene PE-RT (type 2), for hot water and heating network applications up to 95°C. Jointed by electrofusion with 4 mm pin connectors, same as standard PE100 electrofusion fittings.



Fitting Type	DN Range	Rating	Notes
Coupler PE-RT	25 – 160 mm	10 bar / 95°C	Standard straight pipe-to-pipe joint
Reducer PE-RT	32 – 140 mm	10 bar / 95°C	Joins two different pipe diameters
Equal Tee PE-RT	20 – 160 mm	10 bar / 95°C	Three-way, equal branch diameter

3. PE/Steel Transition Fittings

Used to connect PE pipe systems to steel pipework — service entries, meter connections and network tie-ins. Steel end is supplied without plastic casing, compliant with applicable steel pipe standards.



Fitting Type	DN Range	SDR	Notes
PE/Steel Transition	25 – 630 mm	SDR11	Direct pipe transition; factory PE-to-steel joint
PE/Steel Transition Coupler	32 – 315 mm	SDR11	Electrofusion-style transition coupler, 4 mm pin connectors
Yard / Socle Gas Inlet Kit	Project-specific	—	Complete riser kit: ball valve, wall bracket, PE/steel transition with 3.5 m PE tail pipe

4. Butt Fusion Fittings (PE100)

Jointed using a butt fusion welding machine — the fitting and pipe ends are heated and pressed together to form a permanent, homogeneous weld. Used for larger-diameter and in-line connections.



Fitting Type	DN Range	SDR	Notes
Spigot Flange Adaptor (Short)	20 – 630 mm	SDR11, SDR17	For bolted flanged connections; compact length
Spigot Flange Adaptor (Long)	20 – 630 mm	SDR11, SDR17	Extended-length version for deeper insertion
Spigot Elbow 90°	63 – 450 mm	SDR11, SDR17	Directional change
Spigot Reducer	63 – 500 mm	SDR11	Joins two different pipe diameters; can be extended by butt welding
End Cap Spigot	25 – 110 mm	SDR11	Pipe termination / end closure
Spigot Tee 90° Equal	110 – 500 mm	SDR11, SDR17	Three-way, equal branch diameter
Spigot Tee 90° Reducing	140 – 315 mm	SDR11, SDR17	Three-way, reduced branch diameter
Flange Spigot Adaptor	20 – 630 mm	SDR11, SDR17	Machined flange face for direct bolting

5. Material & Classification

Material (standard)	PE100 — EN 12201-3
Material (PE-RT range)	PE-RT type 2 (Dowlex 2388 grade) — hot water up to 95°C
Pressure rating	10 (5) bar gas · 16 (10) bar water (PE100), 10 bar (PE-RT), depending on SDR class
Electrofusion connection	4 mm pin connectors, visual weld indicator on every fitting
Steel components (transitions)	Steel pipe without plastic casing, compliant with applicable steel pipe standards

This sheet is a consolidated overview. Full per-size codes, exact dimensions and packaging quantities for each fitting are available in the complete manufacturer specification sheets on request.