



PE Gas Pipe Systems

Safe and reliable polyethylene pipe solutions for natural gas distribution networks

Pipelife gas pipe systems are engineered for modern gas distribution infrastructure, ensuring safety, durability and long-term operational reliability. Manufactured using premium PE80 and PE100 materials, the pipes comply with international gas distribution standards and provide secure gas transport.

- **High safety performance** for natural gas distribution networks
- **Excellent crack resistance** under pressure and environmental stress
- **Flexible pipe structure** enabling trenchless installation methods
- **Long service life with minimal maintenance**



Technical details

Material: PE80 / PE100 polyethylene

Standards: TS EN 1555

Diameter range: Ø20 mm – Ø400 mm

Pressure rating: up to 10 bar

Pipe color: Yellow or black with yellow stripes

Joining methods: • Electrofusion welding • Butt fusion welding

Product features

High resistance to slow crack growth

Excellent flexibility for seismic and soil movement conditions

Reliable leak-free joints through fusion welding

Resistant to chemicals and soil corrosion

Usage

Typical installation methods include:

- Underground natural gas networks
- Distribution pipelines for residential areas
- Gas infrastructure extensions

Application areas

- Urban gas distribution systems
- Industrial gas supply pipelines
- Residential gas networks

The PE catalog notes that gas pipes are produced using high-technology extrusion lines and comply with strict safety standards to ensure reliable gas transport in distribution systems.

Technical Characteristics

Property	Unit	Value
Material		PE80 / PE100
Standard		EN 1555, Iso 4437
Operating Pressure	bar	up to 10
Operating Temperature	°C	-20 to +40
Safety Factor		≥2
Pipe Color		Yellow / Black with yellow stripes
Service Life	years	>50

Typical Gas Pipe Dimensions

Outside Diameter (mm)	SDR11 Wall Thickness (mm)	SDR17 Wall Thickness (mm)
20	2.0	1.2
32	3.0	2.0
63	5.8	3.8
90	8.2	5.4
110	10.0	6.6
160	14.6	9.5
315	28.6	18.7



Find the right PE gas pipe system for your project from our full product range.

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