



Safe for a lifetime

Polyethylene. Safe. Durable. Robust.



Top priority: safety.

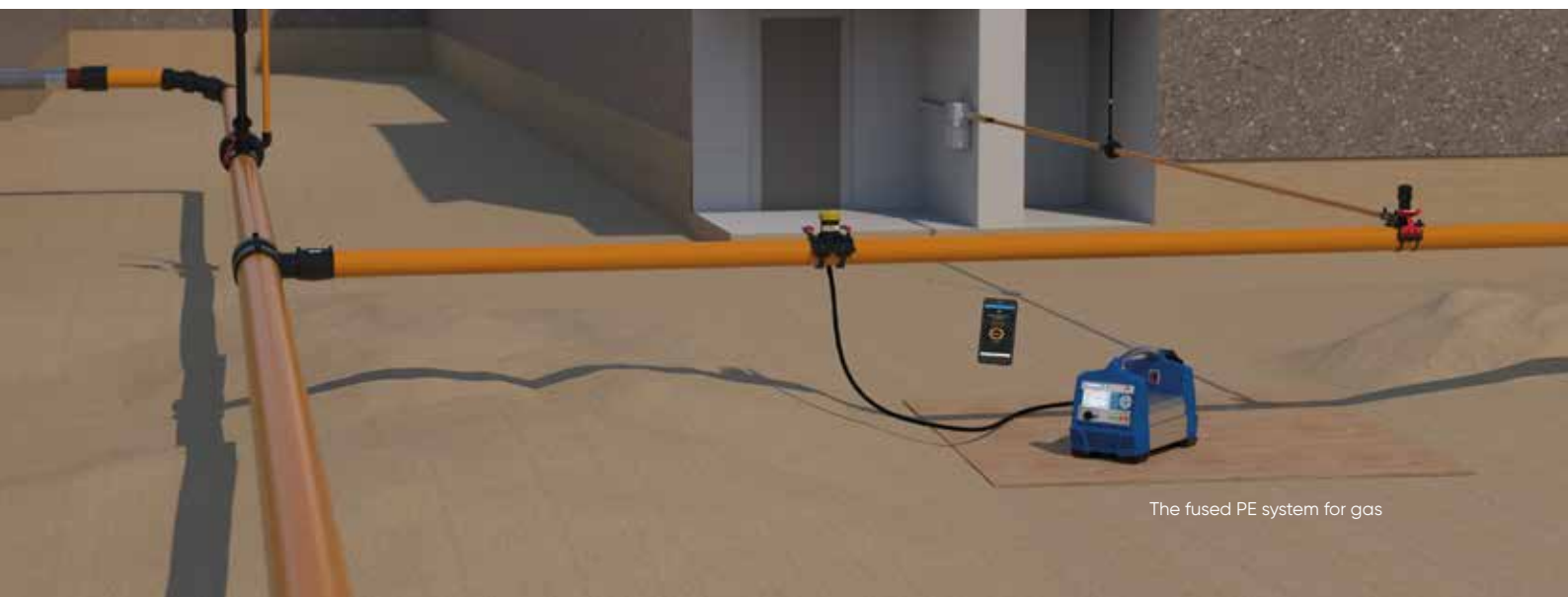
When developing and manufacturing fittings for gas pipelines, we rely on reliable, durable, robust and, above all, safe materials. We are recognised as one of the world's leading providers of highly developed plastic piping systems with approvals around the globe. Gas network operators from all over the world have placed their trust in our products for many years.

Natural gas, a material of the future

The role of natural gas as an energy source is becoming increasingly important in the context of global climate protection. Natural gas meets the most important requirements for sustainable energy: It reduces air pollutants and CO2 emissions and is an essential part of the development of renewable energies. With an expected world population of 9.7 billion people in 2050 - around two thirds within cities - and the associated increased energy demand, sustainable solutions are already needed today. As the most heat-intensive fuel compared to coal or oil, gas meets the high heat requirements of urban buildings and industrial processes.

Transport and distribution - we provide peace of mind

Millions of kilometers of gas supply pipelines worldwide, including vast numbers of house connections with 50% of households heating with gas (in Germany) alone - there are innumerable connection points that require the highest quality standards. As a global leader in plastic piping systems, Aliaxis has several locations across Europe, Aliaxis Germany as the producer of electrofusion fittings acting as a hub for cross-border gas supply and playing a key role in the European gas infrastructure. We ensure safe and long-lasting connections. For the safety of everyone involved.



The fused PE system for gas

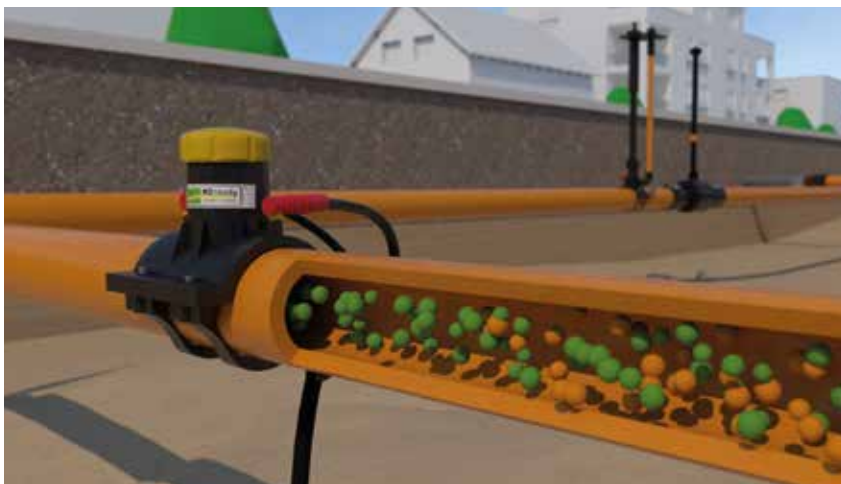
Polyethylene – the solution for gas transportation

Leading material worldwide: PE 100

What does polyethylene (PE) have that other pipe materials don't? Due to its many outstanding properties, the high-quality plastic has developed into a tried and tested material for gas transport lines over the past few decades. PE has played a role in gas supply since the early 1970s and has been continuously developed. PE is lightweight, corrosion-resistant, flexible, robust and can withstand severe weather conditions like earthquakes and floods. In addition, it can be drawn in without a trench using no-dig technology and can be easily integrated into existing systems – even for hydrogen blends. Flexibility meets security – that's what the industry requires.

A high level of protection

Polyethylene offers not only its flexibility and low damage statistics: With an expected service life of approx. 100 years, our PE products are extremely durable, which is particularly important with the new trenchless installation techniques. OUR EF Fittings have been approved for hydrogen suitability after stringent and robust testing by DBI institute Leipzig and are H₂-ready-100. Finally, our technically advanced, material-homogeneous connection technology ensures that the supply systems are permanently jointed – digitally documented and traceable at any time.



System also approved for hydrogen blends

7 good reasons for PE

- lightweight
- excellent flexibility
- low friction loss
- chemical resistance
- severe weather resistant
- homogeneous jointing
- 100% recyclable

DAA RED SNAP – Branch connection: Leak free

We use a high-tech material made of thermoplastic polyethylene – resistant to cracking, resource-efficient and a safe investment in the future. Therefore, our shut-off valves, pressure tapping valves, couplers, molded parts and flanges are manufactured to the highest level.

FRIALEN pressure tapping tee DAA RED SNAP – as simple as it is safe

We recommend the FRIALEN PE pressure tapping tee DAA RED SNAP to branch off gas on lines that are already under pressure. It guarantees leak-free and chip-free drilling up to 10 bar even under operating pressure and, thanks to our patented RED SNAP quick-release lever, can be assembled without tools. This reduces the installation time by over 50 percent compared to alternative options, and the extremely wide fusion zone ensures reliable tightness.

Playing it safe: the excess flow valve

The FRIASTOP excess flow valve is used as a solution when branching from the distribution main through to the property boundary connection. It blocks the gas flow in the event of pipe damage, by preventing gas flow, automatically. The FRIASTOP can be reactivated without dismantling the existing joints. The function of the excess flow valve is guaranteed up to a blend of 30 percent hydrogen.



The maintenance-free excess flow valve FRIASTOP

More information



DAA RED SNAP – Your solution for house connections

FRIALEN DAA RED SNAP – Advantages

- quick assembly without tools
- compact unit with no loose parts
- can be used under operating pressure
- leak-free tapping (no cut off)
- gas-tight system

SPA – Stopping gas supply

When repairing and integrating gas pipelines, a temporary interruption of the gas supply is usually necessary. With the FRIALEN balloon shut-off saddle SPA and the FRIALEN purge stack GAB, a safe shut-off is guaranteed.



Balloon shut-off saddles – access point for commercial shut-off equipment

FRIALEN balloon shut-off saddles SPA – for safety

Are repairs, line extensions, venting or flushing planned in the gas pipeline systems? With the SPA you avoid unwanted gas leaks during your work and protect yourself, your colleagues and residents. SPA temporarily shuts off the gas flow in connection with commercial shut off equipment and thus creates necessary safety on your construction site. When using hydrogen, the SPA can only be used in conjunction with the SPAK sealing cap. The fusion is tight and longitudinally strong.

FRIALEN SPA – Advantages

- compact construction
- compatible with commercial shut-off equipment
- secure connection thanks to long brass external thread
- secure tightness through inseparable brass internal thread

Ball valve – shuts off lines

FRIALEN ball valves KH/KHP/AKHP

In their function as shut-off valves with the option of component tracing, FRIALEN ball valves are used in gas supply and compressed air lines to shut off individual sections of distribution networks or house connection lines outside of a building. The ball valve is conveniently operated from the valve cover within the street using a telescopic installation kit.

Advantage: The FRIALEN ball valve enables a completely fused PE-HD pipe network – without any transition pieces to other materials or flange connections. The smooth inner wall of the high-end material PE prevents deposits on the inner surfaces and thus makes the ball valve resistant to chemical and electrical reactions.

FRIALEN purge stack GAB for venting

The FRIALEN GAB purge stack is used for venting and filling gas lines under pressure – at a pressure of up to 10 bar.

As a pre-assembled, compact unit, the GAB minimises costs on the construction site and also serves as a measuring point fitting to verify the odorant content.



The combination of ball valve and purge stack GAB

Your entry into the digital service world

More convenience, less time required: With the FRIAMAT app, you minimize your documentation effort, with the Aliaxis customer portal you have access to your delivery notes, invoices, service reports, etc. in seconds. No matter where you are: We make your job easier.

FRIAMAT app - download now and get started

In conjunction with the FRIAMAT 7 Prime or FRIAMAT Prime eco universal fusion unit, the FRIAMAT app documents all important data during the fusion process. This means that you have all information available on your mobile phone at any time, online or offline - without registration. The fusion logs are automatically transferred to the app, further information such as geodata, photos and comments can be added quickly and easily and conveniently sent by email from the construction site directly to the office. Suitable with iOS 13.0 and Android 7 or later.

The Aliaxis customer portal - all information at a click

The customer portal, which you can access via our website, opens the digital service world of Aliaxis. As a registered user, it offers you a wide range of services:

- Extended downloads - BIM models, price lists, product data
- Document centre - 24/7 access to your invoices, order confirmations, delivery notes, service reports, cost estimates
- Software updates for the relevant devices

The range of digital services in our portal will be gradually expanded in the future.



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