



Evolution to the max

FRIALEN NXT –
New quality safety fittings



A whole new level of safety and sustainability

FRIALEN NXT is setting new standards

Whether for potable water, gas or complex irrigation projects, the requirements for safe PE connections are challenging – and non-negotiable. FRIALEN NXT guarantees high-performance connections that are setting new standards for tomorrow's world. Whether it's in terms of reliability, durability, traceability and, of course, sustainability.

Thanks to the excellent ratio between performance and material utilisation, FRIALEN NXT reduces our carbon

footprint by roughly 25% when compared to the industry average. This enables us to achieve a unique level of sustainability. Compatibility with WorkFlow also ensures the availability of options for FRIALEN NXT in tomorrow's digital world.



Aliaxis.
We make life flow.

Aliaxis stands behind FRIALEN NXT. A company that connects people with water and energy, ensuring a better future. As a leading, international provider of advanced plastic pipe systems for civil engineering, industrial and agricultural applications, Aliaxis provides people around the world with sustainable, innovative and highly efficient water and energy solutions. Around 14,000 employees worldwide contribute their technical expertise and market knowledge to targeted solutions that meet the highest demands of our customers around the globe. Aliaxis is present in more than 40 countries through leading local brands, combining local solutions with global innovation and operational excellence in each location.

The new dimension: FRIALEN NXT

FRIALEN safety technology – with
proven exposed heating coils
and a maximised fusion zone –
forms a core combination for an
excellent joint

Angle and insertion
depth markings for
simplified alignment



Approx. 25% lower CO2 emissions when compared to the industry average thanks to compact design that sustainably reduces energy consumption

With the lowest energy consumption and variable fusion voltage, FRIALEN NXT achieves unrivalled fusion quality within the shortest possible time

Optimised tolerances for "perfect fit"

The link to enhanced safety and durability

FRIALEN NXT fulfils the highest-level demands

A new level of performance for our proven fitting series: FRIALEN NXT fulfils all technical requirements and delivers an impressive performance with unprecedented ease of installation and durability.

Made in Germany and based on over 50 years of global FRIATEC experience, we have driven the industry's evolution forward. And with convincing results: shortest installation times with 15% higher work efficiency and sustainably reduced installation

risks. Our safety fittings in a compact design guarantee a connection for polyethylene pipes with maximum safety – and stronger than the pipe itself. In combination with the digital assistant "WorkFlow", we create a whole new dimension in terms of documentation, tracking and performance. Ready for the challenges the tomorrow will bring!

FRIATEC: the Aliaxis infrastructure brand stands for quality, durability and ease of installation.



Talk to us!

Experience an entirely new era of performance with FRIALEN NXT. Discover more here:

www.aliaxis.de/frialen-nxt-en



Efficiency

Optimised tolerances for perfect “fit” on the pipe. Excellent fusion and cooling times, as well as angle and insertion depth markings for simplified alignment – taking work efficiency to a whole new dimension



Durability

High-quality materials for an increased service life of the installation and the pipe network



Ready for WorkFlow

Compatible with the digital assistant to deliver time savings during operation via the app and direct documentation of the fusion process



Sustainability

Minimal use of resources for production, packaging, transport and processing in the pursuit of a sustainably reduced CO2 footprint



Industry-leading standards

Developed in accordance with current and governing standards – such as EN12201 and EN1555

First choice in various areas of use



Provision of drinking water

The transport, distribution and house connection of drinking water is seen as the fundamental infrastructure-related prerequisite for health and quality of life.



Field irrigation & co.

Efficient irrigation systems are crucial for productive agriculture. But in many countries – especially in regions affected by droughts or climate disasters – this is not a given.



Fourth Generation energy supply

Natural gas continues to represent an important source of energy. The existing gas infrastructure is a great advantage for the “energy revolution”. This is because climate-neutral, gaseous energy sources will flow through today’s gas pipelines going forward. And the CO₂-neutral production of hydrogen is an issue of enormous importance here. Especially with regard to industry and the utilities sector.



Future-proof house connections

The ongoing development of gas and energy supplies forms the basis for efficient and reliable house connections – for both natural gas and hydrogen. For a more sustainable, resource-saving and cost-efficient heat supply for residential areas and businesses.



Waste water transport

Something that is not yet a matter of course in many countries, but remains of enormous importance. After all, the safe removal of wastewater protects the health of an entire population and the environment. This is the only way to prevent the spread of diseases and maintain water quality in rivers, lakes and seas.



Protection of underground high-voltage cables

A reliable power supply requires effective cable protection. Even underground! High-performance, durable and secure solutions minimise downtimes and ensure the continuity of important power infrastructures.

Going step by step to high-value connections



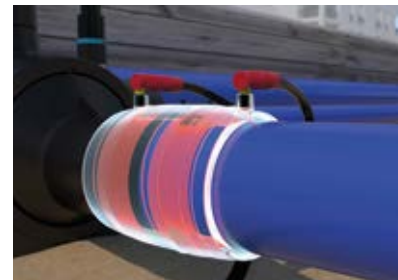
Step 1:

Preparation of the fusion process: the pipe must be cleaned of any dirt and scraped to remove the oxide layer and achieve an outstanding fusion result.



Step 2:

Thanks to the controlled fusion process with scanned barcode, the electrofusion unit heats the exposed heating coil to approximately 210°C. When using a current-generation "FRIAMAT", documentation is created automatically thanks to the integrated WorkFlow app.



Step 3:

Successful connection – During the fusion process, the PE of the pipe and fitting fuses together and a homogeneous connection is created. Thanks to the exposed heating coil, the energy is channelled to where it is needed – for a perfect fusion result.

The power of six

FRIALEN NXT product range

Available in
selected
markets from Q3
2024



FRIALEN NXT MB
Electrofusion coupler



FRIALEN NXT T/TA
Electrofusion T-piece



FRIALEN NXT MR
Electrofusion reducing coupler



FRIALEN NXT W45
Electrofusion elbow 45°



FRIALEN NXT W90
Electrofusion elbow 90°



FRIALEN NXT MV
Electrofusion end cap

Time for answers

Questions about FRIALEN NXT simply answered

Lighter and smaller?

The new, elegant FRIALEN NXT range represents a huge evolutionary step forward. When compared to our classic (and other) conventional designs, the FRIALEN NXT safety fittings and moulded pieces are lighter and slimmer by design. This is not simply due to the reduced use of materials, but to the inclusion of new, state-of-the-art materials and innovative manufacturing processes. With the compact design, we offer lower rates of energy consumption combined with greater sustainability, durability and improved performance! By investing in innovation and production, we have succeeded in achieving outstanding quality, and with a smaller ecological footprint. This means a reduction in CO2 emissions of 25 % compared to the industry average.

Why is FRIALEN NXT better than its predecessors?

Our compact product design is based on a combination of design features and materials that once seemed impossible to deliver. The alliance of open wire technology, large fusion zones and PE-RC material enables outstanding performance. Especially fast gap closing during the fusion process. Although FRIALEN NXT is shorter, it offers a new level of efficient installation with embossed angle and insertion marks for easy alignment and other new features.

Digital integration. So what's the fuss?

At first glance, FRIALEN NXT is similar to its predecessor in terms of digitalisation. In addition to the 2D barcode already introduced with classic FRIALEN products, the connection with the FRIAMAT and the WorkFlow app now provides a host of pioneering advantages: the fusion process with just one barcode scan enables the complete documentation of fusion process

data, as well as other relevant information. When guided by the app, errors are avoided. The intelligent fusion process with the FRIAMAT even offers temperature compensation as a key feature.

Unrivalled performance. How can this be proven?

The FRIALEN classic series exceeds prevailing standards. All design test data sets indicate a clear result: FRIALEN NXT outperforms all previous solutions – including our classic series. For example, in long-term ageing tests and practical checks by customers and industry experts, the results are not only convincing, but impressive.

“Performance 2 Weight” factor. What does that mean?

Decades of experience with the classic FRIALEN products have shown us the way to FRIALEN NXT. When looking to deliver genuine evolution, it is not expedient to focus on reducing weight and size or even safety features. Through an extensive development phase, we were able to develop a more efficient connection technology with the lowest possible CO2 footprint by optimising all factors. All relevant factors – such as fusion zone, energy consumption and installation time – have been fundamentally improved: FRIALEN NXT delivers the best performance with minimised weight.

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