



For shortest downtimes

FRIALEN spigot saddle SA XL





Europoort Rotterdam

The project

Europoort is a large port and industrial area covering 3,700 hectares of the Port of Rotterdam. It ranks among the largest petrochemical ports in the world. The local water supplier Evides Industriewater operates many facilities here, including diverse firefighting networks of large PE piping. For safety reasons, these pipelines may not be rendered inoperable when a branch is being fitted. Our colleagues at AKATHERM NL therefore advised Evides to approach

Aliaxis Deutschland. A solution had to be found for integrating a d 250 tap line in the pressurised d 710 main pipe.

The industrial firefighting pipeline consists of d 710 PE, PE100, and SDR 13.6 sections that can carry an internal pressure of about 5 bar. The outlet is intended as a tapping point for additional hydrant connections.

Fusion and tapping under pressure – Europoort Rotterdam

The solution

Aliaxis opted for the FRIALEN spigot saddle SA XL 710/250 with PN10 flange outlet. In compliance with customer requirements, this will be prefabricated in the Aliaxis production facilities in Mannheim. The internal bead generated by butt fusion will be removed prior to shipping, safeguarding the unobstructed passage of the drill. The vacuum pump, including its connections and plugs for the d 250 outlet, will be purchased by Evides, also for further projects.

Tapping will make use of a 195 mm Hütz & Baumgarten Perfekt-3 drill, which generates little swarf. The tapping rod is 1.6 m long.



Fresh from the Aliaxis production facilities in Mannheim – SA XL d710 with DN250 flange outlet

Measure:

Building site:

Developer:

Construction company:

Building site support:

Products:

Integrating a DN250 flange outlet in a pressurised d 710 firefighting pipeline

Europoort Rotterdam

Evides Industriewater

Siers Groep Oldenzaal B.V. Oldenzaal

Akatherm NL – Aliaxis Deutschland

SA XL d 710 with DN250 flange outlet,

FRIAMAT prime eco with app

More details:



The implementation

Once the pipe has been processed and the fusion areas cleaned, the saddle is aligned. The preheating and fusion work makes use of the fusion unit FRIAMAT prime eco. The documentation is performed simply and conveniently by the FRIAMAT app.

After the cooling time and the vacuum test, the DN 250 shut-off valve is fitted. Beforehand, the tapping equipment was assembled and flanged to the shut-off valve. The actual tapping process takes at most 5 minutes. After tapping, the pipe is vented through the tapping unit, the drill retracted upwards into the flange area, and the valve closed. Afterwards, the tapping unit is removed. The crown is secured firmly in the drill.

To sum up

The FRIALEN spigot saddle SA XL provides a convincing connection to the new FRIAMAT prime eco. Tapping under pressure not only resolves the problem, it is also by far the most cost effective method for retrofitting branches.

The continuous workflow is ensured by the close cooperation from the outset between all involved: What equipment and what fittings are needed? The FRIALEN spigot saddle SA XL with flange outlet is preassembled in the Aliaxis production facilities, and so assembly times are reduced considerably on the building site. The measure can be implemented completely within three hours.

A strong team



**Ease of installation –
with the right fittings and
the matching equipment**



**Efficiency par excellence
after only 3 h installation
time without interruption to
operations**



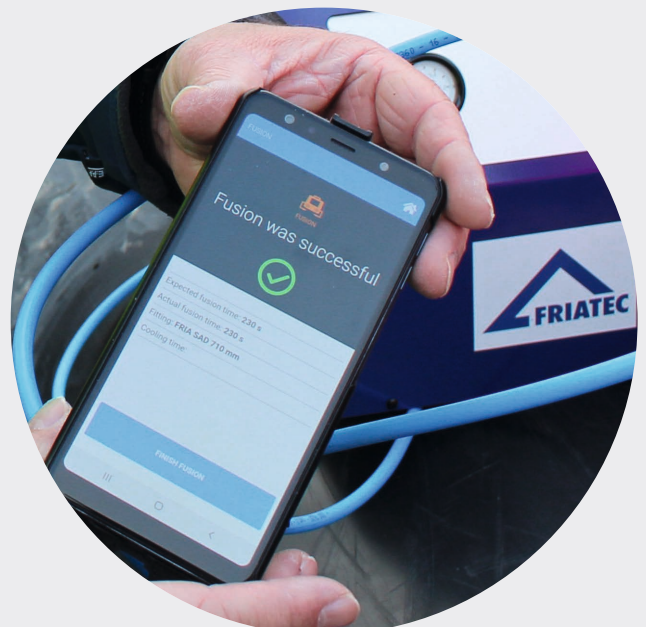
The new FRIAMAT prime eco

- reduced down and process times thanks to innovative toroidal transformer technology with flow optimised active cooling
- high efficiency in continuous operation and the processing of large fittings
- sizes up to about d 1200 (and possibly larger)
- FRIALEN and FRIAFIT safety fitting sizes up to d 900 possible
- working temperature range -20°C to $+50^{\circ}\text{C}$
- interface for Bluetooth® communication with FRIAMAT app installed on a smartphone



The new FRIAMAT app

- smartphone steered fusion process
- Bluetooth® link to FRIAMAT
- start immediately without user account or registration
- available in six languages
- scan function: read in barcodes and view advanced product details
- fusion log transmitted automatically to the app; add quickly and easily additional details like GPS data, photos, and comments
- available free of charge for Android und iOS



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