

BRUGG

Pipes

BRUGG-STAMANT® Safety Pipe

Monitored double walled rigid pipe system
for the transport of all hazardous liquids

General type approval
Z-38.4-207



PIONEERS IN INFRASTRUCTURE



BRUGG-STAMANT® Safety Pipe for environmentally friendly transport of hazardous materials

The advantage for you

- decades of experience in handling safety piping
- prefabricated construction units for maximum safety
- general type approval Z-38.4-207
- ongoing personal advisory service from the planning stage through to operational acceptance
- installation by trained specialists

Systembeschreibung

BRUGG-STAMANT® Safety Pipe is a double-pipe system manufactured in prefabricated construction units in dimensions from DN 15/32–DN 800/900, which is ideally suited for the transport of flammable and non-flammable water-hazardous materials.



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BRUGG-STAMANT® Safety Pipe with leak monitoring designed and manufactured in compliance with the general approvals from the supervisory authority for construction works and the guideline on pressure devices 2014/68/EG as well as the construction regulations of the TRbF 50.

The system fulfils the requirements of the 11th GSGV, of § 63 WHG, § 7 BetrSichV (Ordinance on Industrial Safety and Health) and the specific local requirements of the German federal states according to AwSV (Ordinance of the Federal States on the Handling of Water-hazardous Materials). And the requirements of European regulations on leak detection systems Class 1 are also fulfilled.

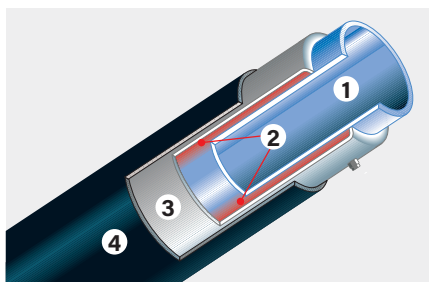
This means that no checks to ascertain compliance with the regulations by the responsible authority are needed.



System approval offers security in project planning

The execution within the framework of a system approval facilitates the project planning, the technical design of the safety pipe, the compliance with the building regulations and the design of the leak detector.

Approval and acceptance, commissioning and recurring tests are simplified. The result is a reliable basis for project planning and order processing, for setting construction times and approval procedures.



Design of the BRUGG-STAMANT® Safety Pipe

- 1 inner pipe
- 2 surveillance space
- 3 outer pipe
- 4 corrosion-proofing



Monitored double pipe system with type approval Z-38.4-207

System surveillance

The annular space between the inner and outer pipes serves as a surveillance space in which a leak detection device can be installed, ensuring complete and permanent leak monitoring. If a spillage occurs, an optical and acoustic alarm is triggered and, if needed, further transport of the fluid medium in the pipe is stopped.

Prefabricated modules

The pre-assembled construction units prepared at our works include all necessary fittings for the project, e.g. bends, T pieces, wall entry fittings etc., as well as the complete external corrosion-proofing for piping laid into the earth according to the specific requirements.

Prefabricating complex construction units at our works reduces the time and effort needed for installation, testing and building work on the site, and means higher safety compared with assembly on site.

Assured quality

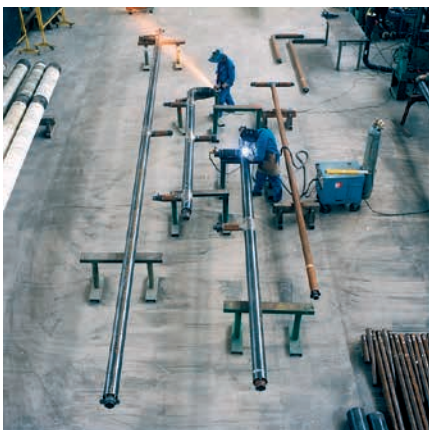
You ensure compliance with high quality standards by means of prefabricated and tested structural units including preliminary tests, construction and pressure tests in accordance with TRbF.

The same applies to material and weld seams, design, tightness, quality properties, corrosion protection and proof of the static strength of a double-walled system, etc. with proof of the absorption of the elongation due to temperature influences.

Trust built on experience and competence

Conventional project planning of double-walled piping for the transport of hazardous materials makes the highest demands on professional skill and state-of-the-art technological design, especially when large-bore piping is required.

Through our decades-long experience in planning and implementing projects with steel-cased piping in district heating systems as well as with FLEXWELL® Safety Pipe installations in industrial, chemical and petrol station construction, we fulfil all these requirements at the highest level.





BRUGG-STAMANT® Safety Pipe as a transport line for a water-glycol mixture – safety at the highest level

Big project – big pipe

The VW administration tower is the administrative center of the Volkswagen brand and the former administrative center of Volkswagen AG in the city of Wolfsburg in Lower Saxony. The house was built from 1957 to 1959 according to plans by the VW building construction department and is located on the premises of the Volkswagen plant in Wolfsburg. The rectangular, elongated construction of the VW high-rise faces south with its narrow side towards the nearby Mittelland Canal and offers workplaces for around 700 VW employees.

From October 2013 the skyscraper was completely renovated and an air conditioning concept designed. An important part of the air conditioning system is the dry cooler building approx. 240 m away. For the transport of the water-glycol mixture, the customer could only consider the use of a safety pipe.

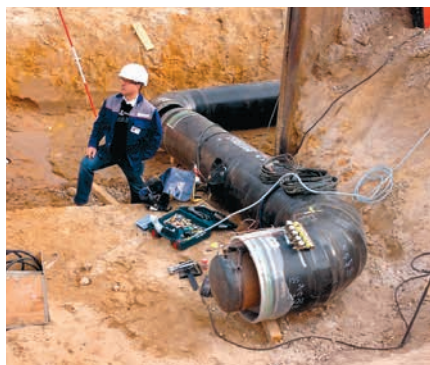
Due to our DIBt type-approved BRUGG-STAMANT® Safety Pipe and our well-trained installation team, the choice fell on our BRUGG-STAMANT® DN 400/500 safety pipe. At the same time, a 240 m long cold water pipe DN 250 had to be laid in a plastic jacket pipe DN 400 with leakage monitoring.

The underground installation took place within four construction phases between May and July 2015. The schedule was fixed and the assembly process therefore did not allow any delays. The project with submission of the final report and delivery of the services was successfully completed without delay.

In order to meet the high environmental protection requirements, the BRUGG-STAMANT® Safety Pipe is monitored with four vacuum leak indicators and serviced annually.



Connection of the technical center to the cooling line



Non-destructive pressure testing on site



BRUGG-STAMANT® Safety Pipe with expansion element



EUREF-Campus Berlin – a BRUGG-STAMANT® sample project for sustainable and energy-efficient complexes of buildings

The future starts now

Since 2007 the EUREF-Campus in Berlin has been developed into a smart city on almost 6 hectares for research, education, work and living. The focus of the development is energetically optimized

Buildings, a local "micro smart grid", share mobility and a biomethane plant for the use of renewable energies. The campus is to serve as a sample for sustainable, energy-efficient complexes of buildings and for studying complex networked building technology.

Between the climate-neutral energy supply, which is in the foreground, and a testing platform for electromobility, an intelligent energy network and the energy-efficient buildings with numerous research projects, an underground double-walled connecting pipeline should be used in compliance with all legal requirements in terms of all environmental factors.

As part of the construction work, the requirements of the "Water Resources Act" (WHG) and the "Ordinance on systems for handling substances hazardous to water" (AwSV) should be met.

The underground installation required a sure instinct, as the pipe route led through several foundations, existing pipelines and cables. The assembly work was successfully completed two weeks after the start and the acceptance with the expert from TÜV Nord took place without any complaints.

A VLR 410 E vacuum leak detector was installed for leak monitoring.

By using the BRUGG-STAMANT® Safety Pipe with general building authority approval (Z-38.4-207), EUREF Campus Berlin invested in a secure future!



Laying the BRUGG-STAMANT® safety pipe with sure instinct



Professional connection to the existing BRUGG-STAMANT® Safety pipeline



Proper securing and fastening of the connections

A BRUGG GROUP COMPANY

