

Florence, Italy
30th September – 2nd October 2019

(2396)
Trenchless
Technology Case
Studies

Joining methods
for CIPP
products in
pressure pipe
systems

Paper Ref #
(the paper ref# will be supplied to authors)

Joining methods for CIPP products in pressure pipe systems

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ABSTRACT: At the transfer points to the existing network and at the connections to the individual sections to be renovated, the trenchless renovation of pressure pipes using CIPP systems requires reliable connection technologies which are also adapted for the respective renovation system. Through these connections from the individual renovation methods, a complete system can be integrated into the existing pressure pipe network. Solutions are employed that, depending on the requirement, include the old pipe or function completely independent of the existing substance. Depending on the condition and material of the ends of the old pipe, these can be further used as a sealing and supporting element, only as a longitudinal anchor or be completely discarded. The latter permits solutions that require no leakage and tensile strength that is only acquired by using new components. Thereby, system checks and approvals of the respective system liner/connection form the basis of the longevity of these interfaces to be able to ensure the appropriate application. This applies in the case of increased requirements, e.g. due to dynamic loads and/or high-frequency of change of load which, in the meantime, are taken into consideration in the actual test programs. The company D&S GmbH & Co KG and their Italian subsidiary, ROTECH SRL, are the driving force and attendant in the development of these innovative technologies. The lecture indicates the requirements, checks and the options, describes the selection criteria and illustrates the technologies based on the project examples.