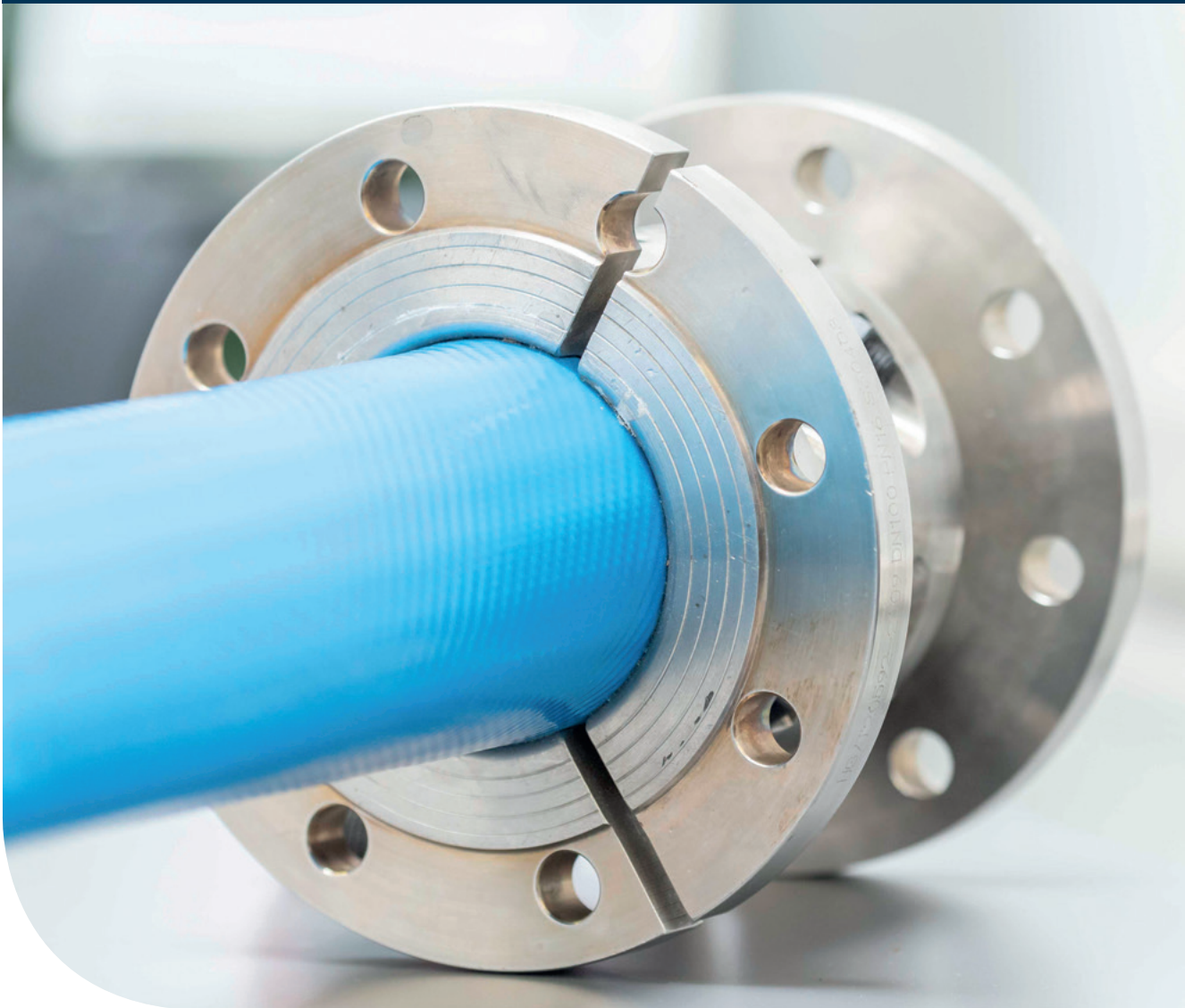


# IH LINER

THE RESIN-FREE REHABILITATION SYSTEM FOR  
PRESSURE PIPES DN 50 UP TO DN 1200

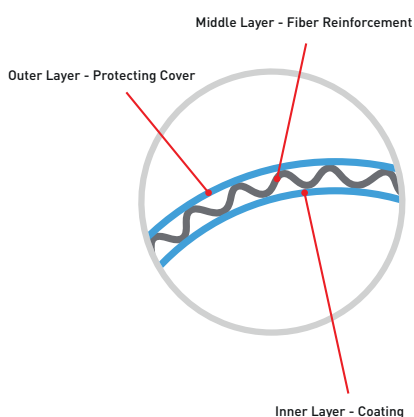


PROVIDING SOLUTIONS





The IH LINER is the optimal solution for trenchless pipe rehabilitation of pressure pipes



The IH LINER has a three-layered structure design

## THE INDEPENDENT PRESSURE PIPE LINER

The IH LINER is a Pull-In-Place-Pipe (PIPP) and is designed for diameters from DN 50 up to 1200 mm. The system is approved for potable water, gas, oil and heat pipes as well as industrial applications. The IH LINER is structurally self-supporting and therefore independent from the host pipe. The liner will remain completely stand-alone.

## NO RESIN, NO IMPREGNATION, NO CURING

The extremely strong and also flexible liner is folded and winched into the existing pipeline. Through the wrapped tapes the liner remains its shape during installation. Finally, the liner is inflated by using compressed air or inflates when fluid is transported under pressure without bonding to the existing pipe. The time-consuming curing as with Cured-In-Place-Pipes (CIPP) is no longer necessary. Afterwards the liner can be reconnected to the existing system with the use of the customized connectors.

## PRODUCT CHARACTERISTICS

The IH LINER is fiber reinforced. With its three-layered composition the liner combines flexibility with extremely high material strength.

**Outer Layer – Protecting Cover:** Polyethylene, thermoplastic polyurethane or other elastomers to protect the fiber reinforcement from damage and to ensure that the liner remains axially and radially dimensionally stable.

**Middle Layer – Fiber Reinforcement:** Seamless circular-woven layer that provides high resistance to internal pressure.

**Inner Layer – Coating:** Polyethylene, thermoplastic polyurethane or other elastomers with high chemical and temperature resistance and excellent mechanical properties.

Diameter	50-1200 mm
Coating	PE, TPU or other elastomers
Seamless Woven Reinforcement	Polyester and/or Kevlar
Pressure Rate	Water: PN4-PN16, Heat: PN16, Gas: PN40
Classification	Independent system bearing inner pressure



## FOR WATER, GAS, OIL AND HEAT PIPES

The IH LINER is the perfect solution for relining pressure pipes of the following application areas:

- Potable Water
- Industrial Water
- Gas
- Oil
- Heat Pipes

## THE ADVANTAGES AT A GLANCE

In addition to the general advantages of trenchless pipe rehabilitation, like short installation times, preservation of infrastructure, minimal traffic disruption, low noise and dust pollution as well as active environmental protection due to CO<sub>2</sub> emission reduction, **the IH LINER offers further benefits:**

- No resin, no impregnation, no curing are necessary
- DN 50 up to DN 1200 mm
- Different connector types are available suitable for various applications
- Large installation lengths up to 3 km in one pull
- Fast construction speed (1 km per 3 hours)
- Flexible liner – Installation through multiple bends of 45° and more
- Inner surface for drinking water, gas and oil
- Prevent internal corrosion
- Independent system bearing inner pressure
- The flexibility and self-support can avoid influence from disturbance

## QUALITY & APPROVALS

The IH LINER is tested and verified regularly by external laboratories. The system is certified according to the following standards:

- NSF/ANSI 61 approved



Individual lengths of up to 3 km on one pull





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