

LOGSTOR *BXS* Joint



**Cross-linked shrinkable joint
for pre-insulated pipe systems,
using moulded foaming**

● distributing energy efficiency

LOGSTOR

LOGSTOR *BXS*Joint

– with moulded foaming

- Foam moulding is carried out inside an aluminium housing, before the casing joint is installed
- Easy to check the quality of the PUR foam prior to final installation of the casing joint
- No foaming or air vent holes
- Double seal makes sure the joint remains completely watertight throughout the service life of the installation
- Casing joint has permanent shrinking properties that are unaffected by overheating
- Can be shrunk over two casing diameters – ideal for use as a reduction joint
- No special tools required for fitting
- Ideal for simple visual quality checks after the joint has been fitted
- Tested to withstand ten times more load cycles than required in EN 489

The shrinkable LOGSTOR BXSJoint is designed for maximum safety and simplicity. It is a double-sealed casing joint, based on a special LOGSTOR foam moulding technique that does not require foam or air vent holes.

This makes it slim, smooth and extremely durable, and helps ensure maximum reliability for the pipe installation as a whole.

The sleeve of the BXS joint is made of extruded crosslinked polyethylene (PEX). This is a particularly strong material with exceptional shrinking properties that maintain the integrity of the joint throughout its service life.

Using a BXSJoint to join two lengths of LOGSTOR pre-insulated pipe helps keep any risk of faulty installation to the bare minimum. At the same time, it ensures the most effective possible insulation over the joint between different sections.

The sleeve consists of only a few components. It is quick and easy to assemble, only requiring a minimum of manpower and no special tools. The design also makes it easy to check whether the joint has been installed correctly.

Visual checks of insulation foam quality

The BXSJoint is placed on the pre-insulated pipe before the individual pipe lengths are welded together. The foam moulding process is then carried out inside a special aluminium housing strapped around the two pipe casing ends.

Removing the housing makes it easy to check the quality of the insulation foam before the casing joint is installed. This way of installing the insulation over the joint does away with any need for holes

for foaming and air venting, thus ensuring that the joint has a smooth outer surface.

Diffusion barrier over the joint

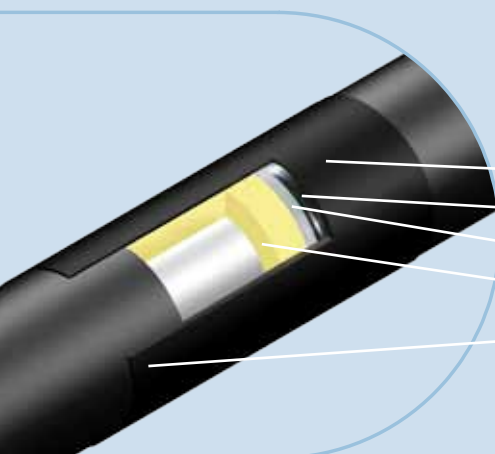
The aluminium housing can also be left around the foam insulation in order to act as a diffusion barrier. This makes the BXSJoint ideal for use in combination with continuously produced LOGSTOR pre-insulated pipes fitted with diffusion barrier.

Familiar technology

LOGSTOR BXSJoint is a special version of the LOGSTOR BXJoint, using foaming instead of factorymade insulation half-shells.

Once the foaming has taken place inside the aluminium housing, the BXSJoint casing joint is fitted in the same way as with the familiar LOGSTOR BXJoint.

Further information is available at www.logstor.com/manual.



Casing joint made of cross-linked polyethylene (PEX)

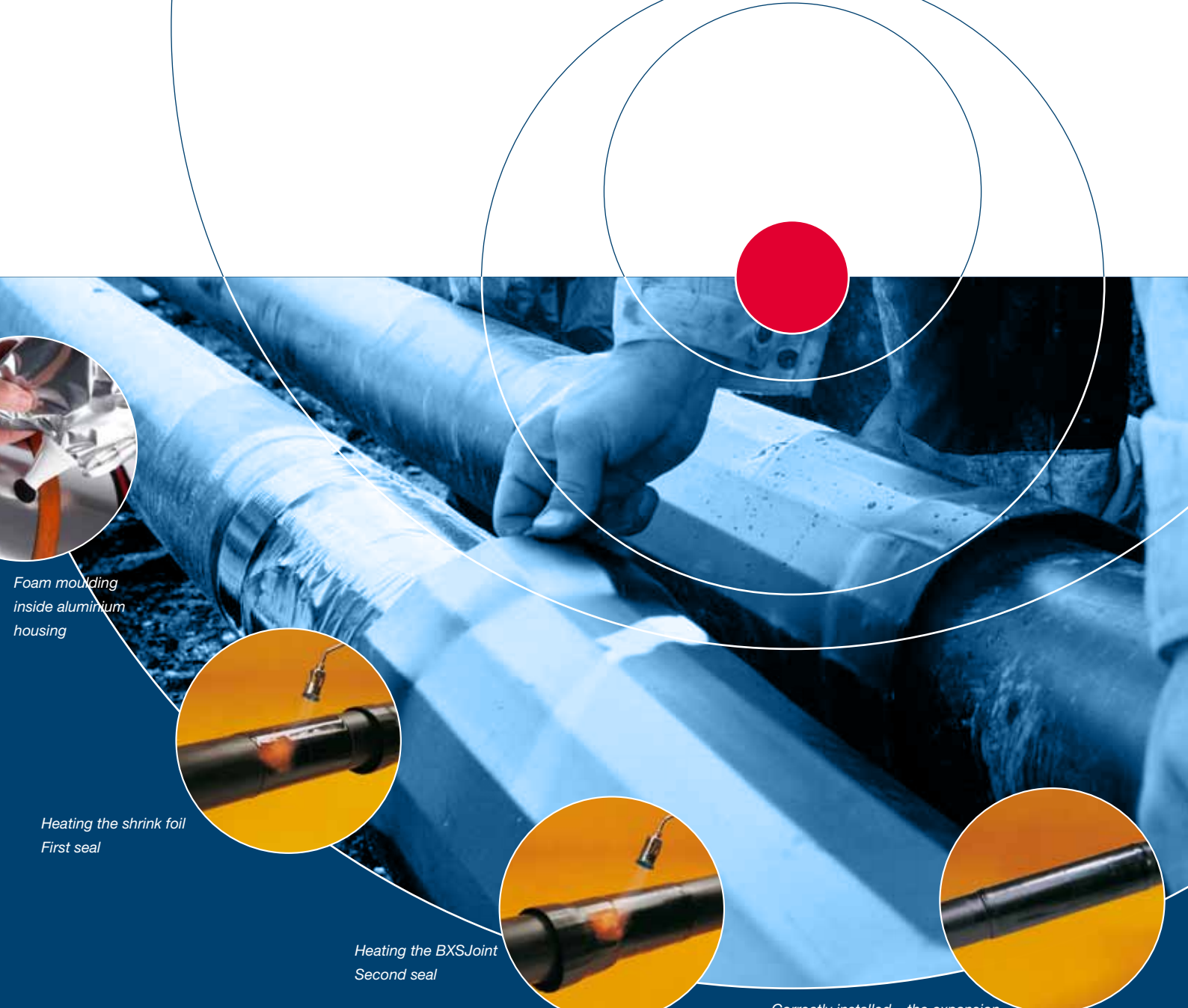
Shrink foil (made of PEX with polyisobutene-based mastic)

Aluminium housing for foam moulding (diffusion tight)

Polyurethane (PUR) insulation foam

Mastic sealant/melting adhesive





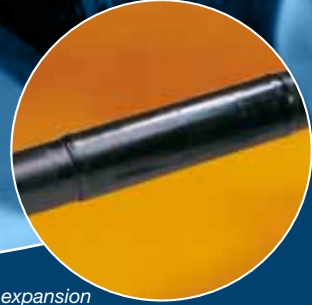
Foam moulding inside aluminium housing



Heating the shrink foil First seal



Heating the BXSJoint Second seal



Correctly installed – the expansion marks have disappeared

Double sealing

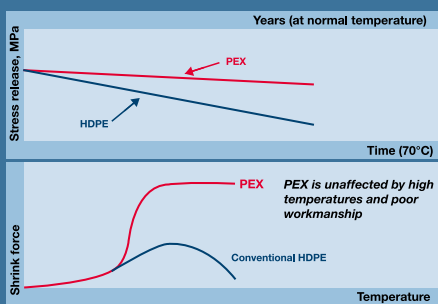
LOGSTOR BXSJoint is a double-sealed casing joint. A propane blow torch is used to shrink the shrink foil and then the BXSJoint sleeve around the pipe casing.

LOGSTOR FoamPack

LOGSTOR BXSJoints are insulated using special LOGSTOR Foam-Packs. These contain the components that provide the exact quantity of PUR foam needed to insulate the casing joints for each particular diameter.

Diameters available

LOGSTOR BXSJoints are used to join pipes with outer casing diameters from Ø 90 mm to Ø 630 mm. The casing joints are delivered sealed in plastic foil to protect them against moisture and dirt prior to installation.



Benefits of using cross-linked PEX
 The unique molecular structure of cross-linked polyethylene (PEX) means that its properties include exceptionally strong shrink forces.

When heated, PEX can be moulded to any required shape, which it will retain when cooled. If the material is subsequently reheated to 125–160 °C, it will return to its original shape.

In contrast to standard high-density polyethylene (HDPE), PEX is unaffected by any overheating during installation, and it retains its shrink force, with no creep deformation, throughout its service life.

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