

LOGSTOR BXJoint

Cross-linked shrinkable joint
for pre-insulated pipe systems



BXJoint

The slim, secure shrinkable joint for pre-insulated pipes

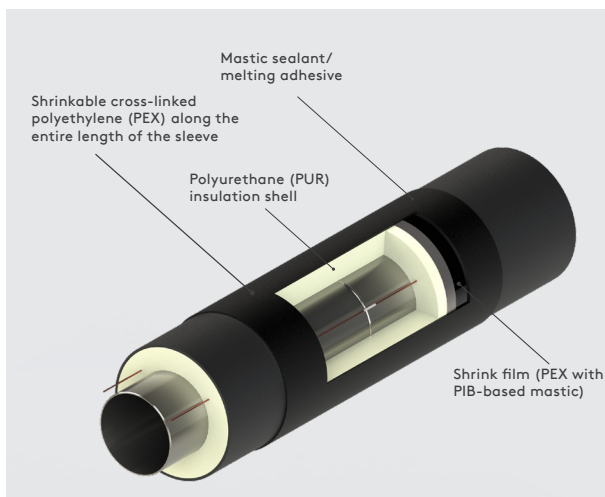
Shrinkable joints

The BXJoint is designed for maximum safety and simplicity. It is extremely durable and helps guarantee maximum reliability for the pipe installation as a whole.

The BX casing joint is made of cross-linked polyethylene (PEX). This is a remarkably strong and elastic material with exceptional shrinking properties that maintain the integrity of the joint throughout its service life.

The BXJoint is a thoroughly reliable sleeve especially designed for shrinking. It ensures straightforward, cost-effective joints between sections of pre-insulated pipe – even in places where extreme conditions are encountered.

The BXJoint can be fitted to pre-insulated pipes used to move both hot and cold liquids.



The joint can be installed quickly and easily using a process that only requires a minimum of manpower. The simplicity of this process also reduces the need for subsequent service.

Where to use

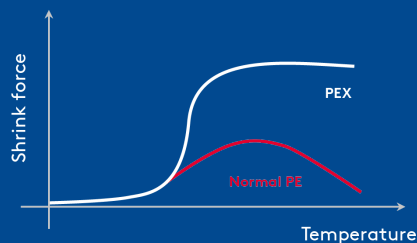
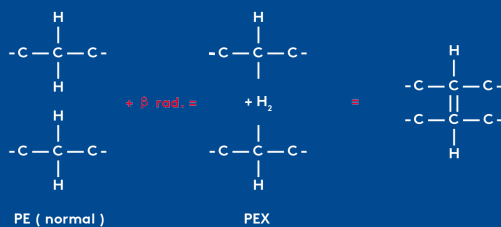
The BXJoint is ideal for connecting pre-insulated pipes in situations where the joints must be able to withstand the effects of both mechanical and thermal forces.

Advantages

- Double seal assures a completely watertight joint throughout the service life of the installation
- The BX casing joint is with integrated mastic and hot-melt which ensures easy and safe installation
- Due to high shrinking temperature, the sleeve does not shrink in extremely hot conditions
- Exceptional shrink properties that are unaffected by any overheating
- Ideal for use as a reduction joint – shrinkable over 2–3 casing diameters depending on dimensions. This will lead to a saving compared to using pre-insulated reductions
- Can be fitted in a single process, using an installation kit that consists of a minimum of parts
- No special tools required for fitting
- Simple visual checks after the joint has been fitted

ELECTRONIC CROSS-LINKING

Changes the molecular structure and increases the shrinkage forces



Benefits of cross-linked PEX

Cross-linked polyethylene (PEX) features a unique molecular structure that provides remarkably strong shrinking properties. These remain in the material, regardless of conditions.

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

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

These special properties of PEX are the key to the shrinkable LOGSTOR BXJoint.

BXJoint

Installation is simple and uncomplicated, requiring only a saw, an emery cloth and a blow torch.

The joint is correctly fitted when the expansion marks have disappeared and the ends of the shrinkable joint are flat and smooth.

How it works

This type of shrinkable joint is made of extruded cross-linked polyethylene (PEX). The joints have to be shrunk along their entire length. The installation kit also contains two factory-made insulation sections (PUR) and a length of shrink foil (PEX foil with PIB-based mastic – polyisobutene). This ensures a double seal that keeps the joint intact throughout its service life.

BXJoint units are delivered sealed in plastic foil to protect them against moisture and dirt prior to installation.

Each BXJoint is placed on the pre-insulated pipe before the individual pipe lengths are welded together. Once the service pipe has been welded and checked, the insulation sections are put in place. The joint is then shrunk around the casing, using a propane blow torch to heat the shrink foil and joint.



Adjusting the insulation sections



Shrinking the shrink film. First seal

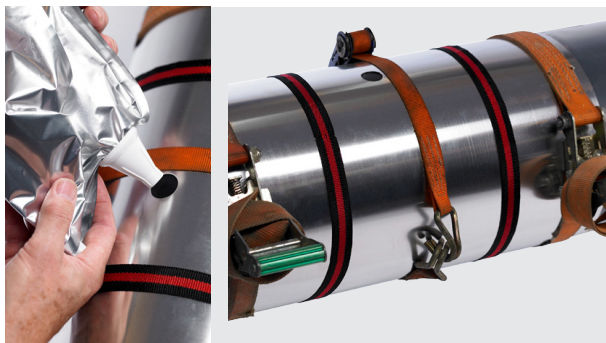
BXJoint for foam moulding

For some markets, a foamed BXJoint is used. In such cases, the foam moulding is carried out inside an aluminium housing strapped around the pipe casing. This aluminium housing also acts as a diffusion barrier. This type of joint is therefore ideal for use in combination with continuously produced pipes fitted with a diffusion barrier.

After foaming, the installation procedure is exactly the same as for conventional BXJoint units.



Shrinking the BXJoint sleeve. Second seal



Correctly installed: the expansion marks have disappeared and the shrinkable ends are flat and smooth

General overview

Technical data

LOGSTOR BXJoint units are available with diameters of 90–630 mm. The BXJoint is ideal for use as a reduction joint as it is shrinkable over 2 - 3 casing dimensions depending on dimension.

Quality-managed production and installation

LOGSTOR, part of Kingspan Group, places great emphasis on both quality standards and environmental responsibility – in everything from the manufacture of the components to the final installation process. All pipes and components are manufactured in accordance with ISO 9001 and ISO 14001 standards.

At our Kingspan Academy, we provide customers, contractors, consultant engineers and inspectors with comprehensive practical training in the use of LOGSTOR BXJoints.

Please contact us for any additional information you may require.

Components



BX sleeve with integrated mastic and hot-melt



Insulation shells (PUR)



Shrink film

Contact details

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For the product offering in other markets please contact your local sales representative or visit www.logstor.com

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