

LOGSTOR *BX*Joint



**Cross-linked shrinkable joint for
pre-insulated pipe systems**

[We document the difference]

LOGSTOR

LOGSTOR *BXJoint*

– the slim, secure shrinkable joint for pre-insulated pipes

- Double seal assures a completely watertight joint throughout the service life of the installation
- High shrinking temperature makes sure the sleeve does not shrink in extremely hot conditions
- Permanent shrink properties that are unaffected by any overheating
- Ideal for use as a reduction joint – shrinkable over 2–3 casing diameters
- 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
- Thermoplastic materials (PE) ensure homogeneity and a long service life
- Tested to withstand ten times more load cycles than required in EN 489

The LOGSTOR BXJoint shrinkable joint 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 LOGSTOR 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.

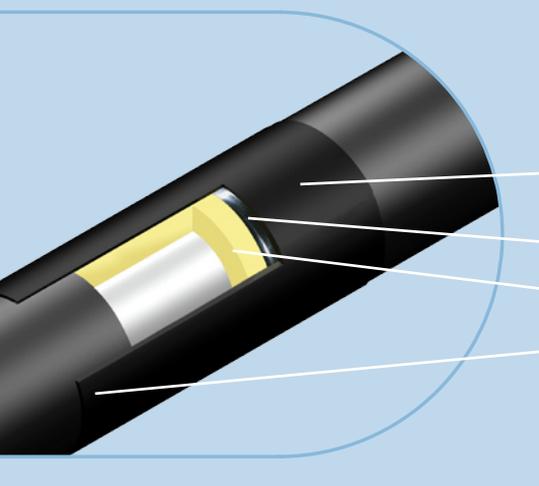
The BXJoint can be fitted to pre-insulated pipes used to move both hot and cold liquids.

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

This means using BXJoints makes it easy to reduce installation costs by as much as 10–15% and expenditure on components by 3–5%.

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.



Shrinkable cross-linked polyethylene (PEX) along the entire length of the sleeve

Shrink foil (PEX with PIB-based mastic)

Polyurethane (PUR) insulation shell

Mastic sealant/melting adhesive



Adjusting the insulation sections

Easy to fit, easy to check

Installation is simple and uncomplicated, requiring only a saw, an emery cloth and a blow torch. This also means that fitters require little additional training.

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



*Shrinking the shrink foil
First seal*



*Shrinking the BXJoint sleeve.
Second seal*

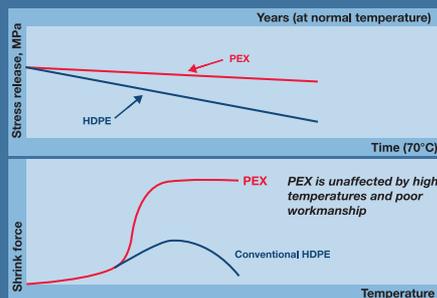
Benefits of cross-linked PEX

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.

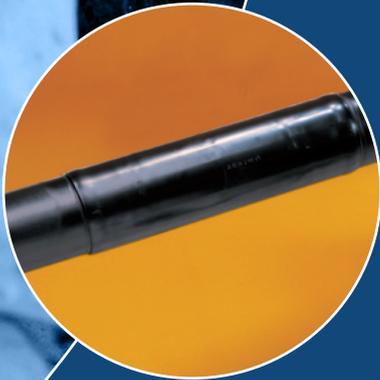
These special properties of PEX are the key to the shrinkable LOGSTOR BXJoint.



Designed for the job

This shrinkable joint system is one of three different LOGSTOR joint technologies that can be applied in conjunction with LOGSTOR pre-insulated pipe systems.

Each different type of joint ensures uniform insulation and a high level of reliability throughout the service life of the system.



*Correctly installed:
the expansion marks have
disappeared and the
shrinkable ends 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.

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 LOGSTOR continuously produced pipes fitted with a diffusion barrier.

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



For additional information and technical specifications of the LOGSTOR BXJoint, visit www.logstor.com

Components



BX sleeve



Insulation shells (PUR)



Shrink foil



Cloth for drying off

Technical data – LOGSTOR BXJoint

LOGSTOR BXJoint units are available with diameters of 90–630 mm. For pipe casings with diameters less than 355 mm, the joint is shrinkable over 2–3 casing diameters.

Quality-managed production and installation

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

At our training centres, 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.

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LOGSTOR A/S
Danmarksvej 11 · DK-9670 Løgstør
Tel. +45 9966 1000 · Fax +45 9966 1180
logstor@logstor.com · www.logstor.com

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