

# LOGSTOR *EW Joint*



**Weldable joint for pre-insulated  
pipe systems**

● distributing energy efficiency

**LOGSTOR**

# LOGSTOR *EWJoint*

- Made of the same material as the pipe casing
- A closed sleeve – the only welds are circumferential
- Can accommodate angled turns of up to 6 degrees
- Suitable for use with pipe sections of different diameters
- Ideal for special tasks such as bends and T-joints
- Can be adjusted to suit different conditions
- Complies with the specifications laid down in EN489

The LOGSTOR EWJoint (Electro-Welded) weldable joint is designed to remain watertight and durable and at the same time keeping heat loss to an absolute minimum.

The system is based on use of a special computer-controlled thermoplastic welding technique. This results in joints of remarkable strength that effectively dissipate any stresses to which they are subjected.

It is a well-documented fact that weldable joint systems are by far the most reliable solutions currently available for joining together sections of pre-insulated pipe. This in turn makes it possible to keep maintenance and repair costs to a minimum.

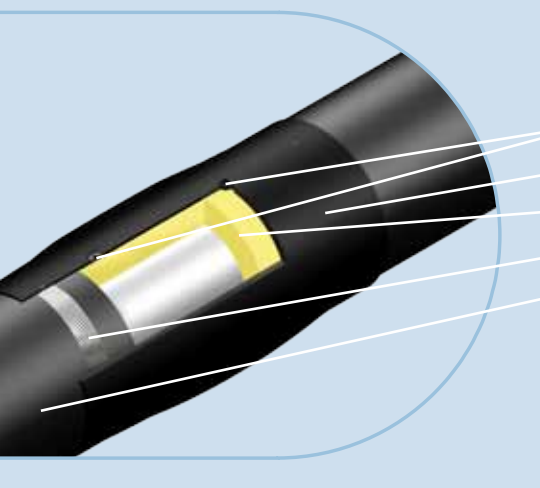
Using a computer-controlled welding technique and the annealed, electro-galvanised steel welding bands, the sleeve and pipe casing are welded together to form a continuous, unbreakable length of pipe in which the welded zones are even stronger than the casing itself.

This makes LOGSTOR EWJoint particularly robust and reliable.

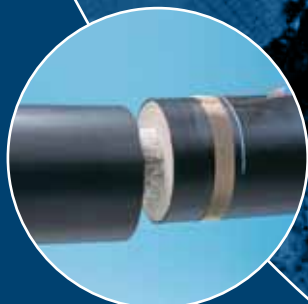
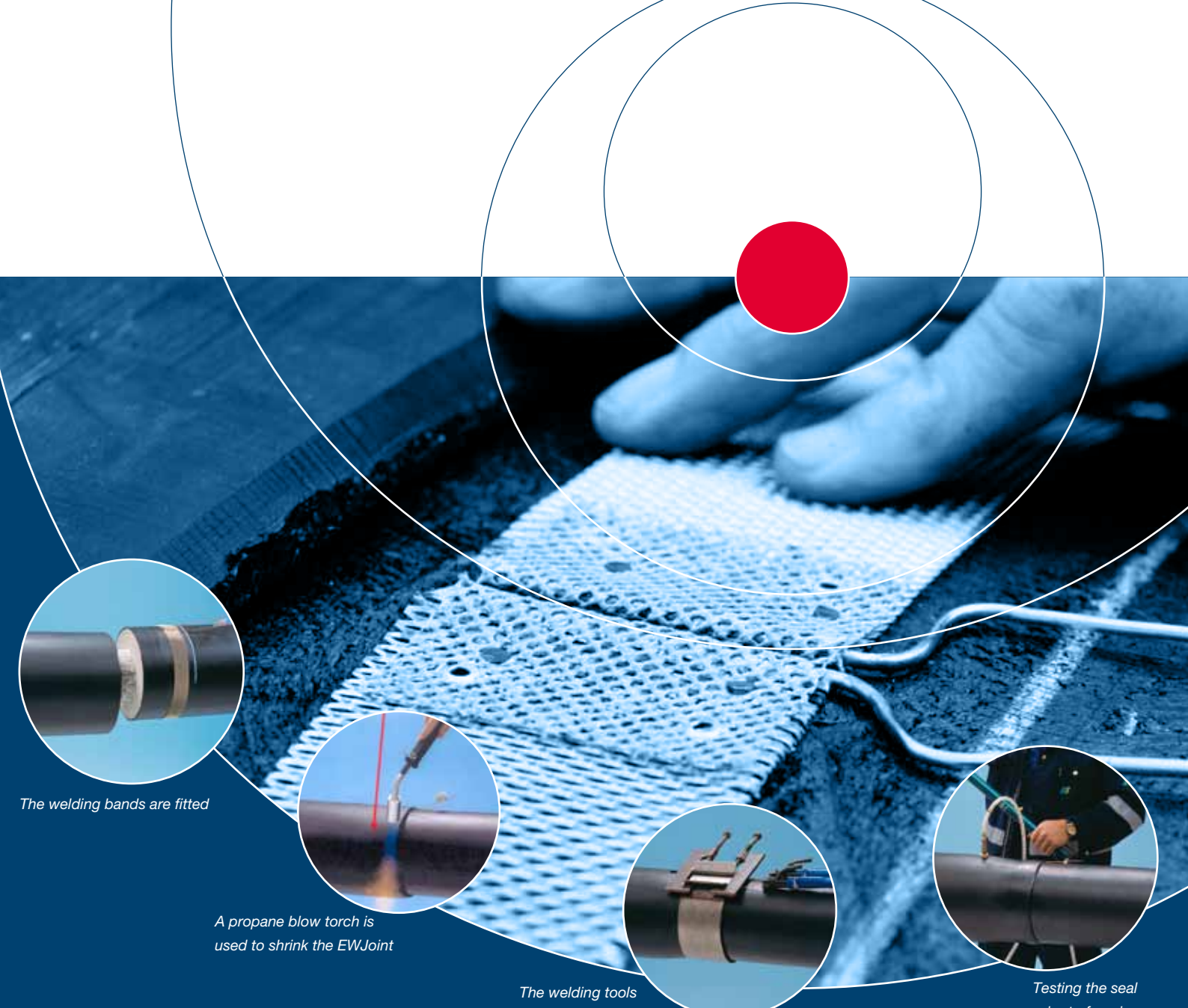
## Where to use

The remarkable durability of EWJoints makes them ideal for joining both distribution and transmission pipes for practically all installations in which:

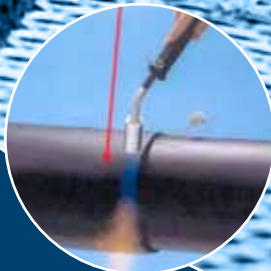
- there is a risk of appreciable axial movement in the system
- the pipes are laid in difficult-to-access locations, such as
  - under water
  - under asphalt
  - under railway tracks



- Foam and ventilation holes closed off with welding plugs
- HDPE (High Density Polyethylene) shrink-on sleeve
- Polyurethane (PUR) insulation foam
- Welding band of annealed, electro-galvanised steel mesh
- HDPE pipe casing



*The welding bands are fitted*



*A propane blow torch is used to shrink the EWJoint*



*The welding tools are fitted*



*Testing the seal prior to foaming*

### **Secure joints**

LOGSTOR provides special training for fitters to make sure they receive as much practical experience as possible in fitting the weldable EWJoint correctly. The training course concludes with both a theoretical and a practical test and successful participants are presented with a certificate.

We also supply all the tools and equipment necessary for fitting these joints correctly. This means you can be sure of

achieving the high level of quality needed to ensure the profitability of vulnerable and cost-sensitive installations.

Once the preparations for the installation have been completed correctly, the fitter simply has to activate the computer-controlled thermoplastic welding procedure. A computer then controls and monitors the entire process.



### **The benefits of welding bands**

*The LOGSTOR EWJoint is welded onto the pipe casing using welding bands made of annealed, electro-galvanised soft steel mesh, which is fixed to the casing.*

*Mechanical clamps positioned immediately on top of the welding zone then ensure the required welding pressure.*

*The computer-controlled process ensures a uniform welding temperature that also takes the ambient temperature into account. This stringent control helps guarantee the quality of the weld between the sleeve and the pipe casing.*

## Designed for the job

This weldable 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.

## How it works

The LOGSTOR EWJoint is placed on the pre-insulated pipe before the sections of service pipe are welded together.

The welding bands are made of annealed, electro-galvanised soft steel mesh and are positioned where it is necessary to weld the sleeve and casing together.

Special mechanical clamps positioned immediately on top of the welding zone are used to ensure the required welding pressure. The application of a uniform welding temperature, which is controlled electronically, ensures the quality of the weld between the sleeve and the pipe casing. Consistent welding temperatures are possible because the programmed welding machine controls both the welding current and welding time.

The entire welding process can be documented, with full traceability down to the individual joint. This documentation is made available via installation reports and/or an electronic weld recorder.



*Welding plugs are fitted and welded*

## Tested integrity and consistent insulation

To make quite sure each EWJoint is watertight, they are all appropriately tested before foaming begins.

The actual insulation is applied using either LOGSTOR FoamPack which contains the correct volume of polyurethane foam for foaming joints with different diameters, or PUR foam from a foaming machine.

Once the foaming process has been completed, the holes are closed off with conical welding plugs, which are welded into the sleeve to leave a smooth, uninterrupted surface.

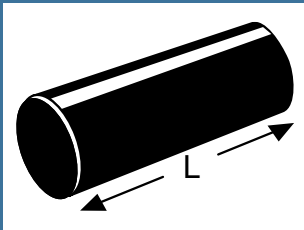


## Everything you need

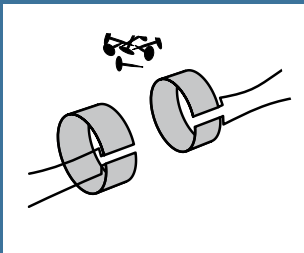
The LOGSTOR trailers used for installation of EWJoints are equipped with everything necessary to perform rapid, error-free welding.

For additional information and technical specifications of the weldable LOGSTOR EWJoint, visit [www.logstor.com](http://www.logstor.com)

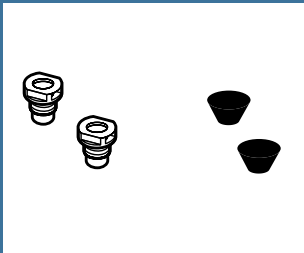
## Components



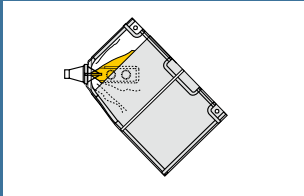
EW sleeve



Welding bands with studs



Ventilation and welding plugs



FoamPack

## Technical data – LOGSTOR EWJoint

<b>Material</b>	High Density Polyethylene (HDPE)	
Joints		
	<b>Casing diameter (Ø mm)</b>	<b>Length (L) (mm)</b>
Joint*	200-400**	750
Joint*	450-1400	800

\* Extra-long version also available in lengths of 1250 mm

\*\* Joints with smaller diameters are also available

### Documented standards

The weldable LOGSTOR EWJoint meets the EN489 standard for joining pre-insulated pipes below ground. It can withstand ten times more load cycles than is required by this norm.

### 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 LOGSTOR training centres, we provide customers, contractors, consultant engineers and inspectors with comprehensive practical training in the use of LOGSTOR EWJoints.

Please contact us for any additional information you may require.

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**LOGSTOR**