

LOGSTOR *BandJoint* system



● distributing energy efficiency

LOGSTOR

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- One single jointing system for both straight joints and branches
- Identical materials used for both casing joint and casing pipe, ensuring perfect compatibility
- Pipe systems remain completely sealed throughout their entire service lives
- Casing joint and casing pipe fuse together to form a single unbreakable casing run
- Computer-controlled and monitored thermoplastic welding procedures ensure maximum accuracy
- Quality of the casing joints is guaranteed by LOGSTOR certified fitters
- Protects the value of your pipe system investment
- Does away with all maintenance and repair, as long as installation instructions are complied with
- Complies with – and considerably exceeds – EN489 standard requirements

The BandJoint weldable jointing system is designed to remain sealed, to provide maximum safety and durability and at the same time keep heat loss to the absolute minimum.

The system is centred around a computer-controlled thermoplastic welding process, providing joints of unparalleled strength that set significant new benchmarks in dependability.

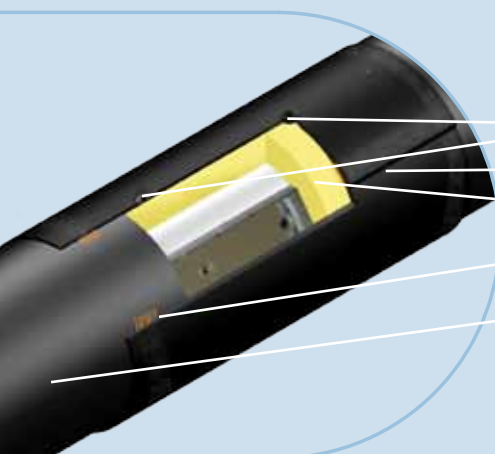
Industry statistics document that welded joints are by far the most reliable jointing solution currently available. Fusing the joint and casing together virtually eliminates maintenance and repair costs, as well as any costs resulting from the knock-on effects of damage or leaks.

The weldable LOGSTOR BandJoint system is – by far – the strongest solution available. It joins together lengths of pre-insulated pipe with HDPE casings using a computer-controlled thermoplastic welding process. This fuses the casing joint and the outer casing together into one continuous, virtually unbreakable length in which the welding zone is always stronger than the casing itself.

BandJoints are therefore exceptionally strong and dependable.

The exceptional resilience of BandJoints makes them ideal for jointing distribution and transmission pipe systems for liquids of virtually any kind. They are especially well suited for installations in which:

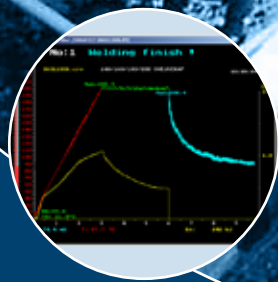
- damage or leaks would affect large numbers of users
- access, excavation and repair would be extremely difficult and costly
- any damage or leaks would have severe environmental impact
- there is a risk of significant axial movement of the pipe
- the pipe is laid below the water table or where sub-soil conditions are particularly aggressive.



- Foaming/air vent holes sealed by welding plugs
- High-density polyethylene (HDPE) casing joint
- Polyurethane (PUR) insulating foam
- Integrated copper wires for the thermoplastic welding process
- High-density polyethylene (HDPE) casing pipe



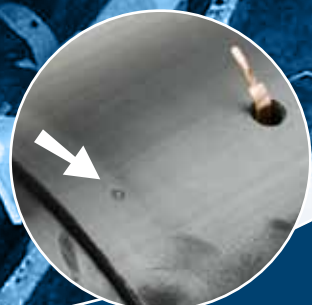
Complete set of installation tools and equipment designed for this specific task



Monitoring that the thermoplastic welding process is carried out faultlessly



Pressure testing for leaks prior to insulation



During correct fusion the hole fills up

Engineered strength

LOGSTOR provides installers with detailed, hands-on training in how to install BandJoint systems, culminating in certification. We also provide all the tools and equipment required to install these casing joints correctly. This enables you to be sure of the exceptional quality standards that are the key to durability for installation in more vulnerable, cost-sensitive installations.

Once the casing joint and welding jig have been mounted correctly over the pipe joint, the fitter only has to push a

button to start the computer-controlled thermoplastic welding procedure. The welding computer then automatically registers the specified parameters and uses this information to control and monitor the entire process, with no operator intervention needed.

The computer also logs and stores this information, providing you with full documentation that you can access should any concerns arise.



Welding by wire

The backbone in this LOGSTOR jointing system consists of special copper wires embedded in the welding zones of BandJoints.

When the casing joint is fixed around the casing, these copper wires come in direct contact with the casing. The computer controls the thermoplastic welding process so that these wires are heated to approx. 200°C, resulting in the casing pipe and the BandJoint fusing together into one unbreakable entity. And the welding zone is always stronger than the casing itself.

Designed for the job

The BandJoint system is one of three different LOGSTOR casing joint technologies designed to interface perfectly with LOGSTOR pre-insulated pipe systems. The aim is to ensure consistent heat retention and complete reliability for the entire service life of the system.

The types of BandJoints

The BandJoint is an open type of joint that is easy to mount onto the casing pipe immediately prior to jointing. The system includes both straight joints and branch joints for single, double and twin pipe installations.

How it works

When the open casing joint has been installed correctly and held in place with a special jig over the ends of the pipe casing, these are fused together using a computer-controlled thermoplastic welding machine.

The computer controls the entire process, monitoring that the fixture tools maintain the correct pressure, that the specified melting temperature is reached and that the welding zones are subsequently cooled down correctly to ensure that the entire pipe run becomes a single entity.

The entire process is monitored by the computer and displayed on its screen. All data about the welds used in each individual casing joint is recorded and stored to document the quality of the operation.

Pressure testing and insulation

To make sure that any leaks are discovered before you backfill the pipe trench, all BandJoints are pressure-tested before they are filled with insulation.

This insulation procedure is carried out with special LOGSTOR FoamPacks, containing the components that provide the exact quantity of polyurethane (PUR) foam needed for filling each particular casing diameter. Once completed, the filling holes are sealed with special welding plugs that melt to become an integrated part of the casing joint.

Everything in one package

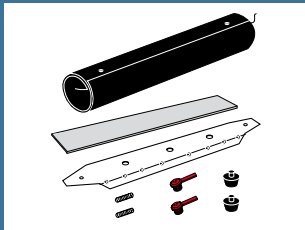
LOGSTOR BandJoint installation trolleys are equipped with everything you need for rapid, error-free jointing of pre-insulated pipe sections.

This includes the special welding jig for attaching to the pipe, a generator, compressor and welding computer.

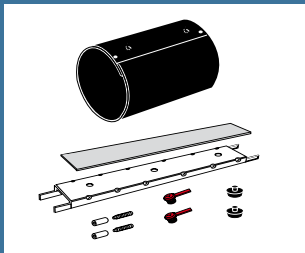
If you would like more details and/or technical specifications for the LOGSTOR BandJoint weldable jointing system, go to www.logstor.com



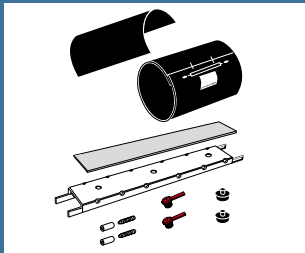
Components



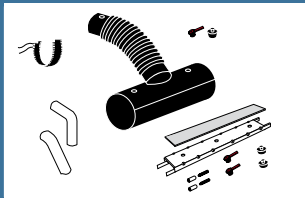
Straight BandJoint.
Small.



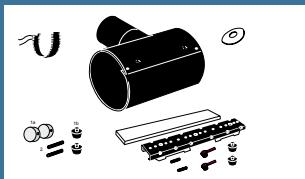
Straight BandJoint.
Medium.



Straight BandJoint.
Large.



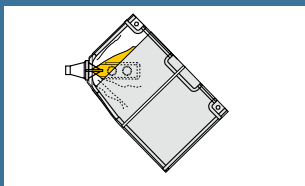
Branch BandJoint.
Flexible



Branch BandJoint.
TwinPipe/TwinPipe



Branch BandJoint.
TwinPipe/Single pipe



FoamPack

Technical data – LOGSTOR BandJoint system

Material	Polyethylene (HDPE) with embedded copper wires in the weld zones	
	Range of casing dimension, (Ø mm)	
BandJoint, straight		
Small	90-200	
Medium	225-800	
Large	900-1200	
BandJoint, branches	Main pipe	Branch pipe
Branch BandJoint, flexible	90-315	90-140
Branch BandJoint, straight		
• horizontal, TwinPipe/TwinPipe	125-630	90-225
• perpendicular	125-800	110-225
• horizontal, TwinPipe/Single pipe	125-630	77-110

Documented standards

The LOGSTOR BandJoint weldable jointing system complies with the EN489 standard for directly buried pre-insulated pipe systems and has in fact been successfully tested under loads 10 times greater than EN489 requirements.

Quality-managed production and installation

LOGSTOR proactively addresses both quality and environmental concerns from component manufacture to finished installation. ISO 9001 and ISO 14001 standards are the basis for the manufacture of all LOGSTOR pipes and components.

We provide your staff, contractors, consultant engineers and supervisors with detailed, hands-on training in how best to use LOGSTOR BandJoint system and its components at the LOGSTOR Training Centre or on site.

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