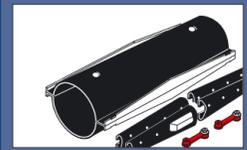


LOGSTOR SteelJoint system

Components



Taper lock casing joint



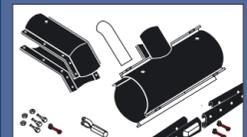
90° bend (7.5°, 15°, 45°)



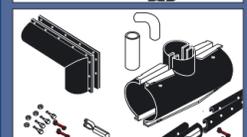
Straight branch,
Single pipe and TwinPipe



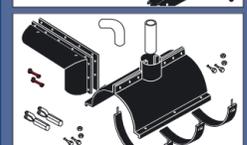
Straight branch,
TwinPipe to Single pipe



45° branch



90° branch



Branch saddle



FoamPack

Technical data – LOGSTOR SteelJoint system

Material		
Steel sheet, thickness	3 mm	
Coating	Polyethylene (HDPE)	
Coating thickness	Min. 0.4 mm	
	Range of casing dimension, (Ø mm)	
Taper lock muff		
Single pipe	77-315	
TwinPipe	125-315	
Bends		
7.5°	90-315	
15°	90-315	
45°	90-315	
90°	90-250	
Straight branch	Casing joint - main pipe	Casing joint - branch pipe
Single pipe/Single pipe	77-315	77-250
TwinPipe/TwinPipe	125-315	125-250
TwinPipe/Single pipe	125-315	77-110
Branch	Casing joint - main pipe	Casing joint - branch pipe
45° branch	90-315	90-250
90° branch	90-315	90-250
Branch saddle	355-780	90-315

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 SteelJoint system and its components at the LOGSTOR Training Centre or on site.

[We document the difference]

Mechanical jointing system for pre-insulated pipe systems

[We document the difference]

LOGSTOR SteelJoint system – for linking pre-insulated pipes

- One single jointing technique for straight joints, bends and branches
- Solid construction and high mechanical strength
- Remains sealed throughout its service life
- Makes pre-insulated pipe systems more reliable and reduces long-term operating costs
- Makes it easy for you to route piping in the most straightforward, cost-effective way
- Fewer joints are necessary, so you can lay pipe faster and cut down on installation costs
- Fewer joints mean less welding, with less likelihood of problems arising
- Installation requires less manpower and no need for special tools
- You can easily establish new branches on existing pipe systems, without interrupting operation
- Makes repair and maintenance jobs easy, rapid and straightforward
- Complies with EN489 standard requirements

Joints are always going to be the weak point in a pre-insulated pipe system – it's inevitable. LOGSTOR, the market leader in this field, has therefore applied the full weight of its technology and experience to tackling this situation.

The SteelJoint system is one of these options. It is diffusion tight and designed to remain sealed and to provide the greatest possible degree of safety and durability as well as to keep heat loss to the absolute minimum.

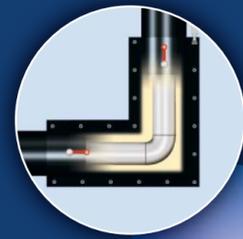
The LOGSTOR SteelJoint system is a versatile, resilient and reliable mechanical jointing system that features everything you need for secure, cost-effective jointing of pre-insulated pipe sections.

As shown below, SteelJoints enable you to lay any pre-insulated pipe configuration, using substantially fewer joints and more straight sections than with pre-fabricated fittings.

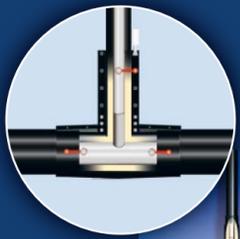
Fewer, simpler joints require less manpower, and the foolproof jointing process virtually eliminates subsequent in-service issues.

This means you can easily reduce installation costs by as much as 10–15% and pipe length waste by 3–5%

One joint only with LOGSTOR SteelJoint system



Pre-fabricated bend requires two joints



Pre-fabricated branch requires three joints

- Inner and outer polyethylene coating
- Shot-blasted, phosphated steel sheet
- Insulation foam (PUR)
- Sealing strip (polyisobutylene)
- Zinc anode for cathodic protection

Where to use

SteelJoints are normally used to connect LOGSTOR pre-insulated pipe with casing diameters of between 77 and 315 mm under normal water table conditions and with soil pH values of >5.

Four simple visual inspection steps ensure that installation is correct – every time

Correct mechanical tightening of taper locks

Pressure testing for leaks prior to foaming

Monitoring that foaming has been done correctly

Zinc offer anode

Nut shows joint has been tightened correctly

Simple to install, easy to inspect

Installation is easy and straightforward – designed to be a foolproof mechanical process, using only a minimum of tools. Installers with limited training can do the job easily.

The four simple visual inspection steps shown above are all it takes to make 100% sure all the procedures were carried out correctly.

Grounding out

SteelJoints are fitted with a zinc offer anode to help eliminate any risk of corrosion.

If the polyethylene coating of the joint gets damaged in any way, this anode is automatically activated and then acts to protect the steel from corrosion.

This device is designed to protect the SteelJoints for at least 30 years of sub-soil service.

Documented standards

More than 6.5 million LOGSTOR SteelJoints have been installed worldwide over the last 35 years.

The LOGSTOR SteelJoint system complies with the EN489 standard for directly buried pre-insulated pipe systems.

We also continuously monitor in-service durability via test excavations on pipe systems installed throughout the world.

Designed for the job

The SteelJoint 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.

Three types of joints

The LOGSTOR SteelJoint system enables you to install the three distinct types of joints required when laying pre-insulated pipes – straight pipe runs, bends and branches. They are available for use both with LOGSTOR single, double and twin pipe solutions.

Only a small number of different SteelJoint components is needed to connect main and branch pipes in a wide range of combinations and to make reductions from one dimension to another - regardless of different insulation thicknesses and the type of monitoring system installed.

The system consists solely of open casing joints, which means you can install branches without cutting the main pipe. All SteelJoint components are delivered wrapped in plastic to avoid problems with moisture and dirt prior to installation.

How it works

A LOGSTOR SteelJoint consists of two halves that are fixed around the pipe using taper locks on straight sections or bolts on bends and branches. The casing joint is made of shot-blasted phosphated steel, coated with a durable layer of HDPE polyethylene.

A polyisobutylene sealing strip between pipe and joint makes sure the unit is completely sealed.

Once assembled, locked/bolted together and leak-tested, the joints are then insulated using special LOGSTOR Foam Packs. These contain the components that provide the exact quantity of polyurethane foam needed to insulate the casing joints for each particular diameter.

This ensures consistent, homogeneous insulation foam that is fresh and with the full complement of propellant. This foam therefore exactly matches the insulation characteristics of the pipe itself, ensuring there are no "weak points" and that heat loss is kept to the absolute minimum.

If you would like more details and technical specifications for the LOGSTOR SteelJoint system, go to www.logstor.com