

Joints

All LOGSTOR joint systems ensure uniform insulation and high reliability for the entire service life of the pipe system. LOGSTOR pipe systems are available with two different joint and branch technologies, each unique to their application area: weld joints and shrinkable joints.



What's in it for you? We invite you to think smarter with us! Our joints minimize risk of failure, they reduce the number of pre-insulated components and ensure rapid and correct installation for the lowest possible cost.

LOGSTOR Joints ... in short:

BandJoint:

Can be used for all applications

Welded joint

- A welded joint is considered as the superior of all joint solutions as there is a fusion welding between the joint and casing. The joints are as strong as the casing.
- BandJoint can be used for all pipe applications like District Heating, District Cooling, Solar Thermal etc. and in oil polluted soil or underground water/water crossings.

Easy installation

Open joint

- The BandJoint shall not be pre-installed but will be brought to the building site when installation will take place.
- This secures optimal conditions for the essential cleaning of surfaces on the casing and the joint before installation.

Less risk of failure and long lifetime

Automatic and documented welding process

- Installation of BandJoint is done with LOGSTOR welding machine, WeldMaster/WeldMaster Light.
- Needed data for the welding process is scanned from a 2D barcode label on the joint and the welding process will be executed automatically.
- The essential element for a good welding is secured: Temperature, pressure, time.
- Immediate feedback to the installer if welding process is approved or not approved according to accept criteria.
- Photo documentation of the different phases of the installation is possible.
- The installer must sign of for correct installation and inspection.
- Strong documentation tool as all data from the welding process is automatically stored on a web server as documentation.

The needed pressure for the fusion welding is secured with air pressure

- The pressure in the welding zone is essential for a good quality of the welding and long lifetime.
- WeldMaster/WeldMaster Light monitor the pressure in the welding zone during the welding process (ø225 – 1400).
- Flexible pressure tool where one tool covers all dimensions ø90 – 800 mm.

EW Joint:

Can be used for all applications

Welded joint

- A welded joint is considered as the superior of all joint solutions as there is a fusion welding between the joint and casing. The joints are as strong as the casing.
- EwJoint can be used for all pipe applications like District Heating, District Cooling, Solar Thermal etc. and in oil polluted soil or underground water/water crossings.

Less risk of failure

Closed joint

- EWJoint is a closed weld joint that must be pre-installed.
- Meaning only circumferential welding, no longitudinal welding.

Less risk of failure

Automatic and documented welding process

- Installation of EWJoint is done with LOGSTOR welding machine, WeldMaster/WeldMaster Light.
- Needed data for the welding process is scanned from a 2D barcode label on the joint and the welding process will be executed automatically.
- The essential element for a good welding is secured: Temperature, pressure, time.
- Immediate feedback to the installer if welding process is approved or not approved according to accept criteria.
- Photo documentation of the different phases of the installation is possible.
- The installer must sign of for correct installation and inspection.
- Strong documentation tool as all data from the welding process is automatically stored on a web server as documentation.

The needed pressure for the fusion welding is secured with air pressure

- The pressure in the welding zone is essential for a good quality of the welding and long lifetime.
- WeldMaster/WeldMaster Light monitor the pressure in the welding zone during the welding process (ø90 – 800 MM).
- Flexible pressure tool where one tool covers all dimensions ø90 – 200 mm and Ø225 – 800 mm.

SX-WP Joint:

Less risk of failure

- SX-WP is made of cross-linked polyethylene.
 - Not sensitive for overheating.
 - No risk of pre-shrinking.
- Shrinkable only at the ends
 - Only the ends are expanded so the joint only shrink in the ends when heating.

Easy and flexible installation

- Expanded elevated ends.
 - The mastic is not being damaged as the joint ends do not rest on the pipe.

Lower investment cost

- Reduction possibility.
 - Can reduce 1 casing dimension.
 - As an alternative, a SX-WP Reduction Joint can reduce 2 casing dimensions.
 - Can replace pre-insulated reduction fitting and 2 x straight casing joints.

BX Joint:

Less risk of failure

- BXJoint is made of cross-linked polyethylene.
 - Not sensitive to heating.
 - No risk of pre-shrinking.
- Double sealed, option of triple sealing.
 - BXJoint is as standard double sealed.
 - Can be triple sealed by installing a shrink wrap in the ends.

Easy and flexible installation

- Insulation shells.
 - The joint can be installed in one operation compared to foaming onsite.
 - Can be installed on hot/cold pipes.
 - Can be installed in all weather conditions.
- Expanded ends.
 - The mastic is not being damaged as the joint ends do not rest on the pipe.

Lower investment cost

- Reduction possibility.
 - Can reduce 1 - 2 casing dimensions.
 - Can replace pre-insulated reduction fitting and 2 x straight casing joints.

BXS Joint:

Less risk of failure

- BXJoint is made of cross-linked polyethylene.
 - Not sensitive to heating.
 - No risk of pre-shrinking.
- Double sealed, option of triple sealing
 - BXJoint is as standard double sealed.
 - Can be triple sealed by installing a shrink wrap in the ends.
- Foaming in an alusheet.
 - Foam can be inspected before installation of the joint.

Easy and flexible installation

- Expanded ends.
 - The mastic is not being damaged as the joint ends do not rest on the pipe.

Cost of ownership due to lower heat loss

- Diffusion tight joint
 - The aluminum sheet to foam in is providing a diffusion barrier in the joint.
- Low lambda value on foam
 - Better Lambda (cyclo pentane) and foam filling by using foamed joints compared to joints with insulation shells.

SXB-WP Joint:

Less risk of failure

- SXB is made of cross-linked polyethylene.
 - Not sensitive to heating.
 - No risk of pre-shrinking.
- Shrinkable only at the ends.
 - Only the ends are expanded so the joint only shrink in the ends when heating.

Easy and flexible installation

- Bending from 0 to 90°.
 - Avoid ordering standard or special pre-insulated bends and two straight joints.
- Expanded elevated ends.
 - The mastic is not being damaged as the joint ends do not rest on the pipe.

Lower investment cost

- Replace one pre-insulated bend and two straight joints.
 - Lower Total Cost of Installation compared to a pre-insulated bend and two straight joints.

SXT-WP Joint:

Less risk of failure

- T-shoe and branch is made of cross-linked polyethylene.
 - Not sensitive to heating.
 - No risk of pre-shrinking.
- Shrinkable only at the ends.
 - Only the ends are expanded so the joint only shrink in the ends when heating.

Easy and flexible installation

- T-joint in 2 parts and an open T-shoe.
 - The T-joint is in 2 separate parts – only the branch part needs to be pre-installed.
 - The T-shoe is open, so it is easy to keep clean until installation.
- T-joint can be straight, parallel or 45°.
 - The T-joint branch is flexible and can be used as straight, 45° as well as parallel with the main pipe.

TS Joint Mastic:

Less risk of failure

- Extruder welding on the main.
 - The longitudinal assembly on the main is secured with an extruder welding.
- Double sealed joint.
 - TSJoint with mastic is double sealed with two independently installed seals on the main and on the branch. The first seal is a mastic, and the second seal is a closed collar on the branch and open shrink wrap on the main.
 - The foam hole on the branch is double sealed with the expansion plug and the collar.

Easy and flexible installation

- Shrinkable and flexible on branch.
 - Flexible branch (PEX) meaning it can be used as a straight, 45 degree and parallel T-joint.

TS Joint EW:

Less risk of failure

- Welded joint on the main (the part that moves in soil).
 - A welded joint is considered as the superior of all joint solutions as there is a fusion welding between the joint and casing.
- Automatic and documented welding process.
 - Installation of EWJoint is done with LOGSTOR welding machine, WeldMaster/WeldMaster Light.

- Needed data for the welding process is scanned from a 2D barcode label on the joint and the welding process will be executed automatically.
- The essential element for a good welding is secured: Temperature, pressure, time.
- Immediate feedback to the installer if welding process is approved or not approved according to accept criteria.
- Photo documentation of the different phases of the installation is possible.
- All data from the welding process is automatically stored on a web server as documentation, strong documentation tool.
- The welding pressure is secured with air pressure.
 - The pressure in the welding zone is essential for a good quality of the welding and long lifetime.
 - WeldMaster/WeldMaster Light monitor the pressure in the welding zone during the welding process (ø90 – 800).
 - Flexible pressure tool where one tool covers all dimensions ø90 – 200 and ø225 – 800 mm.
- Extruder welding on the main.
 - The longitudinal assembly on the main is secured with an extruder welding.

Easy and flexible installation

- Shrinkable and flexible on branch
 - Flexible branch (PEX) meaning it can be used as a straight, 45 degree and parallel T-joint.
 - The branch is double sealed with a collar on the connection to the FlextraPipe and on the foam hole.

TX Joint:

Less risk of failure

- Double sealed joint.
 - TXJoint is as standard double sealed on the main. The sealings are open shrink wraps.
 - The branch part can be double sealed with an open shrink wrap in one end and a collar in the other end.
 - The foam hole on the branch is closed with a welding plug.

Easy and flexible installation

- SX-WPJoint on the branch
 - SX-WPJoint can as standard reduce one casing dimension.

All joints mentioned above can be documented during Installation with digital tools: LOGSTOR ShrinkMaster and WeldMaster. Both tools upload their documentation to the InstallationPortal, where it will be available for review and report extraction.

Joint type	LOGSTOR ShrinkMaster	LOGSTOR WeldMaster	LOGSTOR InstallationPortal
EW		X	X
TS Joint EW		X	X
SXT-WP	X		X
BXS	X		X
BX	X		X
SXB	X		X
SX-WP	X		X
TX	X		X