

## UPDATE REGARDING LOGSTOR PRODUCT PROGRAM

It's once again time for new updates.

Below, please find our Product info No. 1 - 2024 with following updates:

- Flexible pressure tool for BandJoint 90 – 200 mm
- WeldMaster and InstallationPortal – New features
- Parallel T-piece for TwinPipe system
- Change of emery cloth to grain size 36 - 40 for all dimension of relevant type of joints
- Change of measures on Hot tap valves, disposable valves, and valves with handle
- Update preinsulated T-pieces single pipe system and TwinPipe system

Should you have any questions, please contact your usual LOGSTOR contact person or the undersigned.

In August, we will be distributing information regarding BIM models for LOGSTOR products. For those interested, the BIM models are already available on our website:

<https://www.logstor.com/service-support/tools/logstor-bim-models>.

Best regards  
Kingspan LOGSTOR

**Peter Jorsal**

Product & Academy Manager

## Flexible pressure tool for BandJoint $\varnothing 90 - 200$ mm

### Background:

In 2019, we introduced the flexible pressure tool with air pressure for BandJoint dimension  $\varnothing 225 - 800$  mm. Together with WeldMaster Light and WeldMaster the overall strategy was to enable weld joint installation tools to be available for more contractors and customers and thereby facilitate the installation of weld joints, as well as secure the correct pressure in the welding zone that is essential for a high quality of the welding.

### A flexible pressure tool is now qualified for BandJoint $\varnothing 90 - 200$ mm:

We have introduced a flexible pressure tool to be used on BandJoint dimension  $\varnothing 90 - 200$  mm.

The principle of the tool is basically the same as for bigger dimensions but with some differences in the tool design. See pictures below.



BandJoint flexible pressure tool, complete for  $\varnothing 90 - 200$  mm

Material number, standard, 90500000000032

Material number, repair, 90500000000033



Pressure band flexible pressure tool  $\varnothing 90 - 200$  mm

Circumferential

Material number, 90500000000011



Pressure band for longitudinal bar  $\varnothing 90 - 200$  mm

Material number, standard, 90500000000012

Material number, repair, 90500000000013

## The features and customer benefits of the new flexible tools are as follows:

- One flexible pressure tool for all dimensions between  $\varnothing 90 - 200$  mm. The same tool can be used for all dimensions.
  - This will result in lower investment in pressure tools, and it will therefore be possible for the contractor to have one or more complete tools for the BandJoint in each working car/trailer.
  - Faster installation time due to less tools to handle for different diameters.
- The correct pressure (1,5 bar) during the welding process is secured with air pressure which automatically is controlled by the WeldMaster/WeldMaster Light.
  - The correct pressure in the welding zone is essential for a high quality of the welding.
  - Pressure is now together with temperature and time part of the quality qualification of the welding process for each joint.
  - The flexible tool makes it easier to secure a full contact between pipe and joint, due to the pressure hose flexibility is operated with compressed air.
- Safety valves on the pressure bands.
  - This will ensure high safety for the joint installer during the installation.

## Performed tests:

Stress crack resistance tests according to EN489-1 are performed in the different dimensions with a positive result.

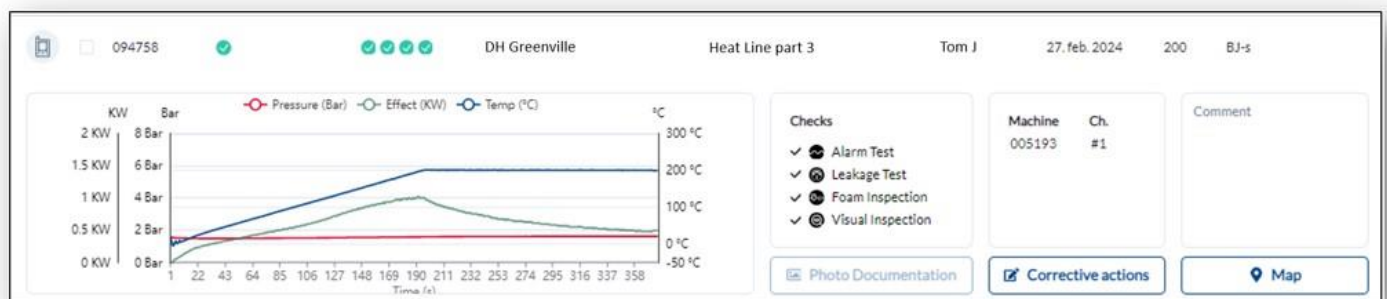
## Installation instruction:

An installation instruction for the use of the new flexible pressure tool is on our website under "Catalogues and documentation".

The installation instruction will be included in the Weld Joint Manual later - when we will update the Weld Joint Manual.

## Documentation:

Documentation on the InstallationPortal for the specific welding of an BandJoint  $\varnothing 200$  mm with air pressure will be as shown below:



## **Training of joint installers:**

We will include the new tool in our standard courses in LOGSTOR Academy.

It will not be required that joint installers will have a recertification, when they start to use the new flexible pressure tool, but joint installers with a valid certificate must have a demonstration of the new tool before they start to use it.

Certified installers must therefore individually contact LOGSTOR Academy or LOGSTOR Service department for this demonstration.

Later this year we will make a video of the installation of BandJoint with the new flexible pressure tool.

## **Ordering the flexible pressure tool for BandJoint 90 – 200 mm:**

Please contact our Service Department in Fredericia, Tim Stoltenberg Jensen.

## WeldMaster and InstallationPortal – New features

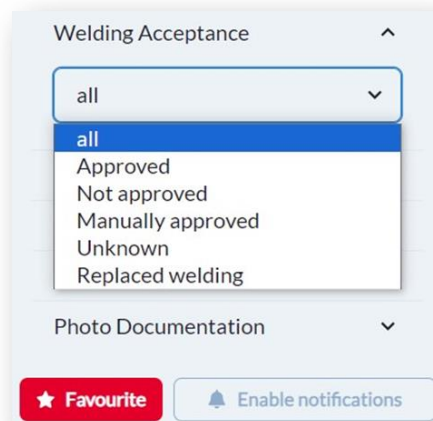
We have introduced two new features to our WeldMaster concept and the InstallationPortal.

### New feature related to the documentation on the InstallationPortal when rewelding a joint

When the welding process is not accepted according to the acceptance criteria, it is possible to weld the joint again up to a maximum of 3 times according to our instructions. Previously the failed joint would be shown with a red status ("Not approved"), even though that the rewelded joint since then has been accepted within the acceptance criteria.

In the updated version of WeldMaster and the InstallationPortal the following features have been added:

- A new category "Welding acceptance" called "Replaced welding" has been introduced, which includes all previous weldings where the welding process is not approved before the latest re-welding where the welding process is approved. Weldings in this category will have a blue status color. This will provide a more accurate reading of "Not approved" weldings, as failed weldings that have been corrected will no longer appear as "Not approved", but rather as a welding that has been replaced.
- An approved re-weld will still have the direct reference to a replaced welding.
- "Approved", "Not approved" and "Manually approved" will also still remain as "Welding Acceptance" categories.



### Benefit for the customer and supervision:

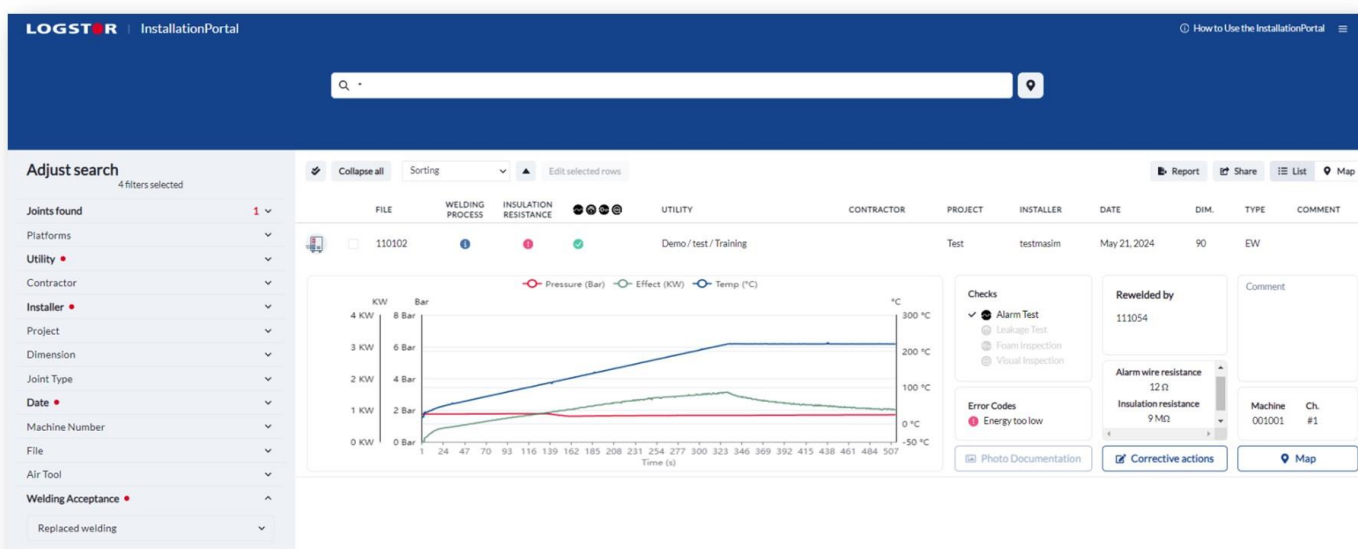
- For the customer and supervision, it is very easy to follow up on that a joint where the welding process is not approved has been re-welded and if the welding process of the re-welded joint is approved.
- Better overview of the installation error statistic

## Benefit for the contractor:

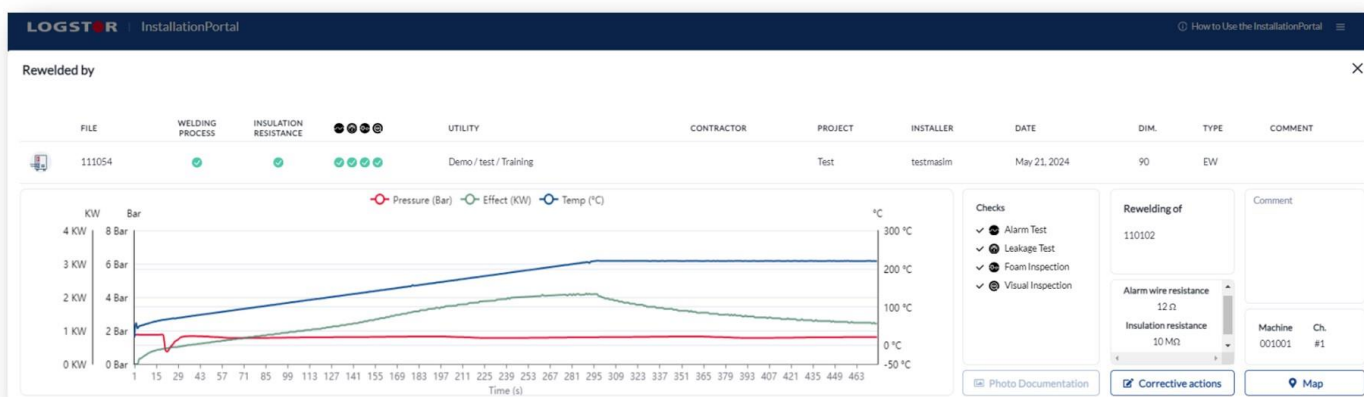
- For the contractor it is very easy to document for the customer that a joint where the welding process is not approved has been re-welded and the welding process of the re-welded joint is approved.

See screenshot below from the InstallationPortal:

Welding process placed in the "Welding Acceptance" Category "Replaced welding". The joint is not approved and there is a reference to the re-welded joint that is approved:



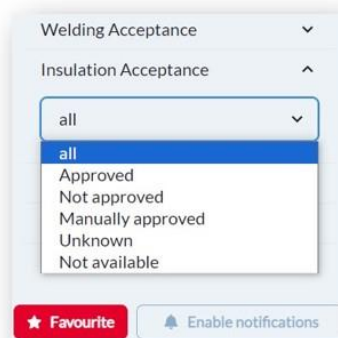
The re-weld is accepted and there is a reference between the joint that failed and the re-welded joint that is accepted:



## Update of the manual checks on IOS/Android devices via the LOGSTOR Connect App

In the updated version of WeldMaster and the InstallationPortal the following features have been added:

- Users can now enter the alarm wire resistance and insulation resistance measured, whereafter the system will validate if the insulation resistance is approved according to LOGSTOR accept criteria or not.
  - If the measurement is approved, the input field will display a green outline and the text: "Approved according to LOGSTOR acceptance criteria."
  - If the measurement is not approved, the input field will display a red outline and the text: "Not approved according to LOGSTOR acceptance criteria."
- This feature is the same that was introduced with LOGSTOR ShrinkMaster.
- Information on the InstallationPortal if the insulation resistance is within the acceptance criteria or not. See examples in above screenshots.
- It is now possible to filter separately between welding process and insulation resistance acceptance.



- If the customer has described a lower acceptance criteria than the LOGSTOR acceptance criteria it is still possible to upload to the InstallationPortal. On the InstallationPortal this installation will appear as not approved as the insulation resistance does not live up to LOGSTOR acceptance criteria.
- If the installer does not want to register the insulation resistance this is possible by choosing "Not done" in the manual check "Alarm test". However, we recommend always to register the resistance measurements.

### Benefit for the customer and supervision:

- On the InstallationPortal, the customer can at any time follow that the surveillance system is controlled according to instructions and that insulation resistance is within the acceptance criteria.
- Supervision has the possibility of immediate follow up if insulation resistance is not within the acceptance criteria.
- The customer can be sure to have a well-functioning surveillance system at handover from the installer.

## Benefit for the contractor:

- The installer will have immediate feedback on the mobile phone if the insulation resistance is within the acceptance criteria or not.
- If insulation resistance is not within the acceptance criteria, the installer must perform the needed corrections until measurement shows that insulation resistance is within the acceptance criteria.
- In this way the installer will always be sure that insulation value is within the acceptance criteria for every joint installation.
- The installer can hand over a well-functioning surveillance system to the customer.

Below, see examples of the information the installer will have on the mobile phone when entering the information about the alarm wire resistance and insulation resistance:

11.16

< Back Welding 111054

Alarm test  
☒ Done ☐ Not done

Leakage test  
☒ Done ☐ Not done

Foam inspection  
☒ Done ☐ Not done

Visual inspection  
☒ Done ☐ Not done

Alarm wire resistance: 12  
 Insulation resistance: 9 MΩ

Correspond to m. wire: 1000  
 Not approved according to LOGSTOR accept criteria

Upload

Tools Documents More

Example:

Wire resistance 12 ohm à 1000 m wire

Insulation resistance 9 Mohm → not approved/red

11.15

< Back Welding 111054

Alarm test  
☒ Done ☐ Not done

Leakage test  
☒ Done ☐ Not done

Foam inspection  
☒ Done ☐ Not done

Visual inspection  
☒ Done ☐ Not done

Alarm wire resistance: 12  
 Insulation resistance: 10 MΩ

Correspond to m. wire: 1000  
 Approved according to LOGSTOR accept criteria

Upload

Tools Documents More

Example:

Wire resistance 12 ohm à 1000 m wire

Insulation resistance 10 Mohm → approved/green

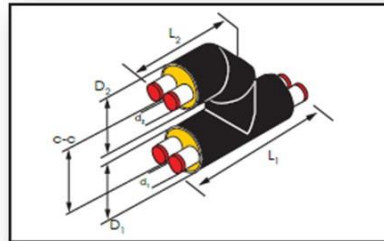
## Weld joint manual:

Weld Joint Manual will be updated in Q3/Q4.



## Parallel T-piece for TwinPipe system

We have introduced a parallel T-piece to our product portfolio for the TwinPipe system. The parallel T-piece for TwinPipe system is prepared as series 1, 2 and 3 with Nordic wires and Brandes wires.



### Parallel T-piece for TwinPipe with Nordic wires

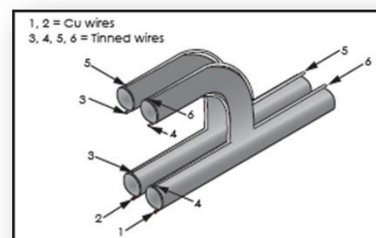
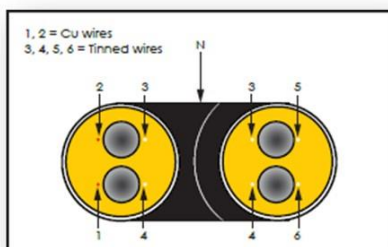
All pre-insulated parallel T-pieces with Nordic wires are as a standard delivered with 4 embedded wires:

2 copper wires and 2 tinned wires in the main pipe and 4 tinned wires in the branch.

The tinned wires always run into the branch, whereas the copper wires always run straight through.

The wires used for installation are always the 2 wires at the top of the main pipe and branch. The wires at the bottom of the main pipe and the branch should not be used.

In this way the parallel T-piece can be used for branching to the right as well as to the left with a standard wire run in the casing joint.



### Design:

Until we have an updated Design Manual – TwinPipe and Design Tool – TwinPipe, please contact our Technical Department when you have questions to the design with parallel T-pieces for TwinPipe system.

### Benefit for the customer:

- When branching of with a parallel T-piece only one pre-insulated bend and one straight joint is needed compared to two pre-insulated bends and two straight joints when branching off with a straight T-piece.
- Higher speed of installation.
- Potential of saving on Total Cost of Installation when including the cost of excavation and installation.

## **Implementation:**

Material numbers including prices are created.

Product Catalogue pages of the TwinPipe parallel T-piece series 1, 2 and 3 are on our home page. Later this year the Product Catalogue will be updated.

LOGSTOR Design Tool - TwinPipe will be updated in Q3/Q4, 2024

The Design Manual – TwinPipe will be updated in Q3/Q4, 2024

## Change of emery cloth to grain size 36 - 40 for all dimension of relevant type of joints

### Background:

Today, we write the following about grain size of emery cloth:

Handling & Installation Manual (Shrinkable joints):

#### 2. Emery cloth:

Grain size 60: ø 90-280 mm

Grain size 36: ø 315 - 1000 mm

Installation Manual for Weld Joints:

Use grind discs or diamond discs for grinding. Grind discs are recommended for casing dimensions ø 90-1400 mm. Diamond discs are recommended for casing dimensions ø 355-1400 mm.

For EWJoint emery cloth, grain size 36, can be used.

### Change of emery cloth to grain size 36 - 40 for all dimension of relevant type of joints:

We will change the instructions in the Handling & Installation Manual and the Installation Manual for Weld Joints to emery cloth size 36 – 40 in all dimensions for shrinkable joints and EWJoint.

By changing to emery cloth with grain size 36 – 40 it will be easier for the supervisor to inspect that the installer has grinded with emery cloth before installation of the joint.

No change in the instruction of grinding for BandJoint installation.

### **Implementation:**

Above will be implemented now. However, there will be a period where it must be acceptable to grind shrinkable joints dimension 90 – 280 mm with emery cloth either size 60 or size 36 – 40.

The Handling & Installation Manual and the Installation Manual for Weld Joint will be updated in Q3/Q4, 2024.

We will start to use emery cloth with grain size 36 – 40 in our Academies from now.

## Various Product Catalogue updates

We are continuously updating our Product Catalogue and Manuals. Please use the documentation we have on our website where you always will find the updated versions.

Below is mentioned products with general updates:

- Measures on Broen hot tap valves, disposable valves and valves with handle have changed.
  - Geometry of the valves is changed.
  - Product Catalogue is updated.
- Pre-insulated T-pieces, single pipe system.
  - In previous version of the Product Catalogue, we have used rounded figures for the c-c measure on pre-insulated T-piece 45° and pre-insulated T-piece parallel.
  - We have updated the Product Catalogue, so we show the exact measures for the c-c measure.
  - The pre-insulated T-pieces have been checked in relation to a revision of the safety factor in EN13941-1 and EN17415-2. That has resulted in some changes of the pressure ratio 16/25 bar as following.
  - T-pieces that can now be used for 25 bar:
    - 508 x 33.7 x 508
    - 508 x 168.3 x 508
    - 457 x 48.3 x 457
    - 457 x 219.1 x 457
    - 406.4 x 219.1 x 406.4
    - 355.6 x 60.3 x 355.6
    - 273 x 219.1 x 273
    - 219.1 x 219.1 x 219.1
    - 139.7 x 139.7 x 139.7
  - T-pieces that no longer as a standard can be used for 25 bar:
    - 323.9 x 139.7 x 323.9
    - 273 x 168.3 x 273
- Pre-insulated T-pieces, TwinPipe system
  - TwinPipe T-pieces that can now be used for 25 bar:
    - 219.1 x 219.1 x 219.1
    - 139.7 x 139.7 x 139.7

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