

ProductInfo

28th November 2019

Updates of LOGSTOR's Product Assortment ProductInfo No. 2-2019

2019 is nearing the end and we have important product information to share with you.

ProductInfo No. 2-2019 contains updates as regards BandJoint dimensions $\varnothing 225 - 315$ produced from a plate, foam packs, marking casing joints, and expansion of our house entry pipe assortment.

In addition it gives a brief update as regards the new revisions of the European standards for pre-insulated pipes.

At the turn of the year we will issue another ProductInfo with exciting news.

If you have questions, you are of course welcome to contact your usual contact person or the undersigned.

Best regards,

LOGSTOR A/S

Peter Jorsal
Product & Training Manager

Klaus G. Lauridsen
Product Manager

BandJoint $\varnothing 225 - 315$ produced from a plate

As mentioned in ProductInfo No. 2 – 2018 the plan is to introduce BandJoints produced from a plate in dimensions $\varnothing 225 - 315$ mm.

The advantages are:

- Foam holes will be drilled on site, what ensures that the foam holes are always on top of the casing joint
- Terminals come from the pipe ends, what simplifies leakage testing joints
- The new casing joint is easier to install onto the pipe

BandJoints in these dimensions will be available in two lengths: 630 mm and 1020 mm. They are always delivered coiled.



We have started to deliver $\varnothing 315$ mm BandJoints, produced from a plate and from the turn of the year we start supplying $\varnothing 225-280$ mm BandJoints, produced from a plate. However, we will continue delivering the old type of BandJoints, until the stock is empty.

The length of BandJoint-branches, which are produced from a straight BandJoint, will also change as the above change is implemented.

Compared to ProductInfo No. 2 – 2018. the pressure tool is not subject to changes.

The PDA is automatically updated as regards the use of correct weld data. Therefore always make sure to scan the QR code on the casing joint. If the weld data are keyed in manually, it is crucial to use the correct casing joint code in the PDA, so the correct welding temperature is reached.

Moreover, installation is to be carried out in accordance with the instructions for BandJoints.

Foam Packs

The quality of the foaming with foam packs is ensured by the correct dosage of foam liquids, the diffusion-tight foil on the isocyanate part of the foam pack, the transparent part of the foil on the polyol part of the foam pack enabling you to ensure correct mixture, and several other details of the foam pack.

Our main focus is on ensuring a good working environment and high safety for the person, using the foam pack. The LOGSTOR foam pack has a nozzle with a membrane which is inserted into the foam hole, when the liquids have been mixed. The membrane of the nozzle is broken, when the nozzle is in the foam hole. This minimizes the risk of the fitter coming into contact with the liquids.

From the foam pack the type of liquids and their hazard symbols appear. A QR code to be scanned with a mobile phone also appears from the foam pack. The code gives access to brief safety information on polyol and Isocyanate.

As a novelty the scanning also gives access to a detailed MSDS for polyol and Isocyanate.



SX-WP Joint Family

From November we have started to mark the SX-WP joint family with a label with a QR code. This code gives access to the installation videos for the SX-WP joint family on our homepage.



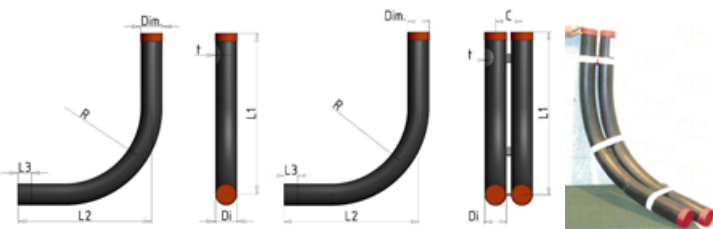
House Entry Pipes

In 2019 we have been working on offering a full assortment of house entry pipes, matching our flexible pipe family.

The Product Catalogue and the handbook for flexible pipe systems will be updated as soon as possible.

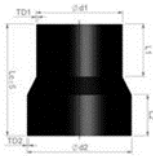
House Entry Pipe Assortment

- Full assortment of single, double fixed, and double movable designs for outer casing dimensions $\varnothing 90 - 140$ mm
- 6 m long extension pipes as well as connection joints which fit the outer casing dimensions



Terminations

- Sealing reductions for sealing between casing and inlet pipe, covering our entire range



- The flexible protective caps in the extended assortment, so all dimensions are covered. A protective cap for one outer casing dimension covers more service pipe dimensions.



- A combination of a protective cap and a sealing reduction in dimensions 20x20/110, 20x20/125, and 26x26/125.



- Valves with mountings in extended assortment for pipe pairs as well as TwinPipe. For some dimensions we offer insulating casing for the valve set.



New Compression Couplings

Earlier we have informed you that we will switch to a new type of compression coupling for our PEX pipe system. Our stock has now reached a level, so we can start delivering the new version. The Product Catalogue will be updated as soon as possible.

PexFlextra Hela compression couplings

Compression coupling, male

Compression coupling with male end for termination in a cabinet or a building.

A. Dimension 20-32 mm
B. Dimension 40-110 mm



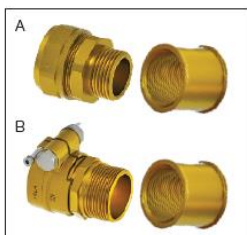
Component No. 6100.

Thread	PEX									
	20	25	32	40	50	63	75	90	110	
1/2"	x	x								
1"		x	x							
1 1/4"			x	x						
1 1/2"					x					
2"						x	x			
3"								x	x	

Compression coupling, female

Compression coupling with female end for termination in a cabinet or a building.

A. Dimension 20-32 mm
B. Dimension 40-110 mm



Component No. 6100.

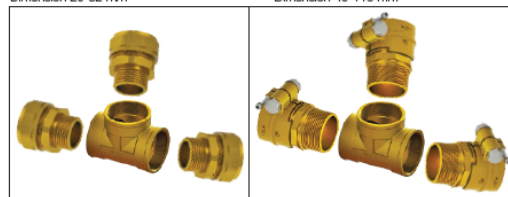
Thread	PEX									
	20	25	32	40	50	63	75	90	110	
1/2"	x									
1"		x	x							
1 1/4"				x						
1 1/2"					x					
2"						x	x			
3"								x	x	

PexFlextra Hela compression couplings

Compression coupling, tee

Dimension 20-32 mm

Dimension 40-110 mm

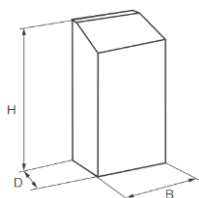
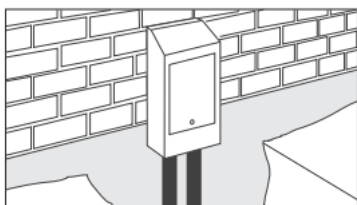


Component No. 6160.

d ₁ , mm - d ₂ , mm	d ₁ , mm									
	20	25	32	40	50	63	75	90	110	
20-20	x									
25-20	x									
25-25	x	x								
32-20	x	x	x							
32-25	x	x	x							
32-32	x	x	x							
40-20	x	x	x	x						
40-25	x	x	x	x						
40-32	x	x	x	x						
40-40	x	x	x	x						
50-20	x	x	x	x	x					
50-25	x	x	x	x	x					
50-32	x	x	x	x	x					
50-40	x	x	x	x	x					
50-50	x	x	x	x	x					
63-25		x	x	x	x	x				
63-32		x	x	x	x	x				
63-40		x	x	x	x	x				
63-50		x	x	x	x	x				
63-63		x	x	x	x	x				
75-32			x	x	x	x	x			
75-40			x	x	x	x	x			
75-50			x	x	x	x	x			
75-63			x	x	x	x	x			
75-75			x	x	x	x	x			
90-40				x	x	x	x	x		
90-50				x	x	x	x	x		
90-63				x	x	x	x	x		
90-75				x	x	x	x	x		
90-90				x	x	x	x	x		
110-50					x	x	x	x	x	
110-63					x	x	x	x	x	
110-75					x	x	x	x	x	
110-90					x	x	x	x	x	
110-110					x	x	x	x	x	

Weatherproof Cabinets

We have simplified our assortment of weatherproof cabinets. When the present stock is empty, we will in future offer the 2 variants below. Both variants are without bottom and rear end.



Type	Product Nos.	H (mm)	W (mm)	D (mm)
Without outer cover	89000800340000	825	350	200
With outer cover	89000600290000	600	290	160



Revision of the European Standards

In recent years the European standardization groups have been working on new revisions of the European standards for buried bonded pipe system as regards pre-insulated pipes, fittings, valves, and casing joints. The work includes product, design as well as installation standards.

The work has now been completed and the following standards have now been approved and published on CEN level: EN13941-1, EN13941-2, EN253, EN448, EN488, EN489-1, EN15698-1, EN15698-2, EN14419, and EN17248.

In Denmark "Dansk Standard" has already published these standards. In other countries the translation into the local language is still ongoing, but expected to be completed at the year-end.

Already in 2018 LOGSTOR established an internal working group to ensure that we were ready to deliver in accordance with the revised standards, when they were published. So the statement is now, that we are ready.

The revisions have resulted in many changes in our product assortment in the form of product changes, material specifications, internal test procedures, installation instructions, bedding material instructions, trench design instructions, pipe and component handling etc.

It would be quite exhaustive to make a complete description of all these changes. Below some of the changes are described. For clarification of below please contact the undersigned:

- Steel quality **shall** now be P235GH for all dimensions. To be ready for this LOGSTOR stopped purchasing P235TR1 in dimensions $\varnothing 26.9 - 60.3$ already in 2018
- Steel pipe tolerances follow EN10216/10217. So there are no longer more stringent tolerance requirements in EN253
- Foam pads shall have a permanent mark of rigidity and producer
- New calculation conditions for fix plates for the TwinPipe system, what has resulted in a change in the geometry of fix plates
- New calculation conditions for yield stress, what has resulted in us having to make new calculations and documentation e.g. of T-pieces
- New calculation conditions for the design of E-Comps
- New rules for storing pipes at a customer's, and in connection with projects
- New rules for the excavation profile, including requirements to space when welding and installing casing joints
- More stringent requirements to grain size and sieve curve of bedding material
- New requirements to qualification and training of casing joint fitters, what is supported by LOGSTOR's strategy that all casing joint fitters shall hold a valid certificate from a course where the casing joint fitter has installed the casing joints stated in the certificate
- Change in requirements to the ongoing – internal as well as external - tests on pre-insulated pipes as well as actual type tests of pre-insulated pipes. LOGSTOR has initiated a test programme for this
- New requirements to axial water ingress in pre-insulated pipes
- Change in requirement to external casing joint test. LOGSTOR has initiated a test programme for this

The standards for flexible systems have not been changed.