



LOGSTOR Foam Volume Calculator



UPDATE REGARDING LOGSTOR PRODUCT PROGRAM

Happy New Year.

Hereby, the first update from LOGSTOR in 2023.

Below, please find our Product info No. 1-2023 with following updates:

- LOGSTOR Foam Volume Calculator
- EN15632-2:2022, updates
- Pre-insulated stop valves, TwinPipe, adjustment

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

Best regards
Kingspan LOGSTOR

Peter Jorsal
Product & Academy Manager

LOGSTOR Foam Volume Calculator

We are pleased to introduce a new digital tool "LOGSTOR Foam Volume Calculator".

The tool is primarily developed to determine the needed Foam Pack sizes for LOGSTOR standard casing joints, but the tool can as well be used for other/special casing joint geometries and for finding alternative Foam Pack combinations.

The tool will be available on <https://www.logstor.com/service-support/tools>

The screenshot shows the web application interface for the LOGSTOR Foam Volume Calculator. At the top, there is a navigation menu with the following items: Welcome, 1. Straight joints, 2. Reduction joints, 3. Joints for E-Comp, 4. End fitting, 5. Bend joint, 6. T-joints, 7. Transition joints, 8. Foam pack, and 9. Calculator. The main content area has a dark blue background with the LOGSTOR logo in the top left corner. The title "LOGSTOR Foam Volume Calculator" is centered in white text. Below the title, a message reads "Select calculation sheet in the top menu". There are three paragraphs of text providing information about the tool's purpose, its limitations, and a disclaimer. The bottom left corner shows the version "0.1.1" and release date "19.12.2022". The bottom right corner features the Kingspan logo.

Welcome 1. Straight joints 2. Reduction joints 3. Joints for E-Comp 4. End fitting 5. Bend joint 6. T-joints 7. Transition joints 8. Foam pack 9. Calculator

LOGSTOR

LOGSTOR Foam Volume Calculator

Select calculation sheet in the top menu

The Foam Volume Calculator contains LOGSTOR's input related to onsite foaming of LOGSTOR's standard casing joints. The volume calculations are based on the conditions and dimensions given in LOGSTOR's product documentation and installation instructions. The Foam Volume Calculator automatically suggests the Foam Pack size(s) to use in order to achieve the appropriate quality of the finished insulation. Please note that this is merely a calculation tool and that you might be able to calculate foam volumes for joints that cannot be installed or manufactured.

As the Foam Volume Calculator is available free of charge, LOGSTOR does not provide warranty of any kind for any loss or damage, including without limitation, indirect or consequential loss or damage, arising from or in connection with, the use of the Foam Volume Calculator.

Furthermore, LOGSTOR does not give any warranty regarding neither the accuracy of volume calculations, nor the fitness for purpose of any solutions as proposed by the Foam Volume Calculator. If you decide to use the Foam Volume Calculator or any solution based on the volume calculations provided, such usage will be wholly and completely at your own risk.

Version: 0.1.1
Release date: 19.12.2022

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EN15632-2:2022, updates

In 2022 the European Standard EN15632-2:2022 was launched: "District heating pipes – Factory made flexible pipe systems – Part 2: Bonded system with plastic service pipes, requirement and test methods".

This is the standard, that is valid for our PexFlextra and AluFlextra.

More topics were changed in this standard. Below is mentioned some of the changes:

Operating temperature and service life:

Pipe systems according to EN15632-2:2022 are designed for a service life of at least 30 years, when operated at the following temperature profile:

- Operating temperature
 - 80°C for 29 years
- Maximum operating temperature
 - 90°C for 7760 hours
 - 95°C for 1000 hours
- Malfunction temperature
 - 100°C for 100 hours

We have already introduced this temperature profile in our Product Catalogue for PexFlextra and AluFlextra. Maximum operating pressure is 6 bar for PexFlextra and 10 bar for AluFlextra.

Please contact us if you have the need for knowing the estimated lifetime for other temperature profiles/pressure.

Thermal stability test for multilayer service pipe:

The service pipe in our AluFlextra is a multilayer service pipe.

In the previous version of the standard, EN15632-2:2010+A1:2015, the inner layer of the multilayer pipes should be tested according to requirement in EN ISO 21003-2 in a test with a duration of 1 year (8760 h) at 110°C.

In EN15632-2:2022 this requirement for the multilayer pipe has been extended to 15000h at 110°C, instead of the requirement of 1 year in EN ISO 21003-2.

The 15.000 hours thermal stability test according to EN15632-2:2022 is ongoing but not yet concluded, so testing requirements remain fulfilled according to the previous version of EN15632-2.

Type of multilayer pipe:

In the new version of EN15632-2:2022 there is also added a limitation to the allowed type of multilayer pipe from EN ISO 21003-2 so that only multilayer pipes with a metallic layer are allowed. This we have always followed from LOGSTOR.

Updates Pre-insulated stop valves, TwinPipe, adjustment

Previously it has been possible to order pre-insulated stop valves with or without a reference point where the surveillance wires are led out through the stainless spindle top.

To reduce complexity in our product portfolio we have decided to remove the version without a reference point.

The future standard will therefore be pre-insulated stop valves with a reference point for the surveillance wires.

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