

# Key Definitions

## – and abbreviations

This manual uses the following terms and abbreviations:

Pre-insulated pipe system PPS - industrial polyurethane foam PUR polyethylene pipe (PE) insulated shell of steel tubes and shapes as a whole.

Pre-insulated pipe - is the main PPS product used in the installation of underground district heating pipelines.

Pre-insulated fittings - these are special-purpose PPS elements, the use of which is determined by pipeline configuration, operating conditions and technical parameters.

Pre-insulated bend - is an underground district heating pipeline directing insulated shapes. Standard elbow angles are 90° and 45°.

Pre-insulated T-pieces - it's a three-way insulated shape used in the installation of the main pipeline. In some cases, the insulated siding can be parallel and fulfillment, which were intended to reduce the negative load to the main pipe.

Pre-insulated terminations bend - it's a steep angle of the elbow-shaped shapes used in underground district heating pipeline by means of a foundation for the building.

Pre-insulated reduction unit - this is an isolated shapes, welded steel insert assistance, combining two different diameters of steel pipes.

Pre-insulated anchor unit - it's true PPS element with the outer welded steel flange, which help betonavus entire structure suspended pipeline axial displacements.

Compensator - is a special product is isolated or in a certain order assembled insulated elbows group, expansion of the zone of receiving axial thermal expansion pipeline piping loads.

Pre-insulating joints - this assembly product used in isolation PPS elements connected to the pipeline, non-insulated spaces.

Polyurethane foam insulation PUR - is a rigid foam layer between the steel tube and the outer cladding tube inner surface.

Pipeline monitoring (monitoring) system of wires - it's PPS elements PUR insulating layer equipped with two copper wires, one of which is fin plated.