

PRE-INSULATED PIPES AND FITTINGS

PE-ST-PU-SPIRO and ST-PU-SPIRO

used in mining

MATERIAL

polyethylene insert, steel pipe, flame retardant polyurethane foam, steel tape casing pipe

APPLICATION

in the rooms and underground excavations in "a", "b" or "c" class of methane explosion danger and "A" or "B" class of coal dust explosion danger.

RANGE

Ø 42.4 to Ø 610 mm – for pipes:
ST-PU-SPIRO

Ø 88.9 to Ø 610 mm – for pipes:
PE-ST-PU-SPIRO

pressure up to PN 160



Pre-insulated PE-ST-PU-PE and ST-PU-PE type pipes and fittings have a B certificate that allows for the use of safety mark – GIG Katowice



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CONSTRUCTION

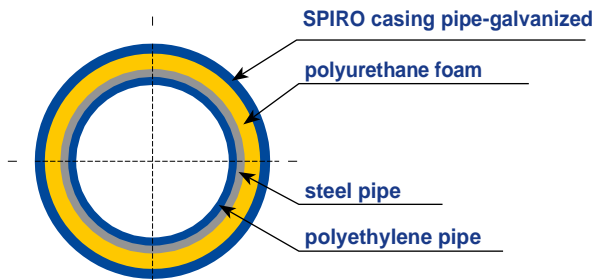


Fig. 1 PE-ST-PU-SPIRO pipe design diagram

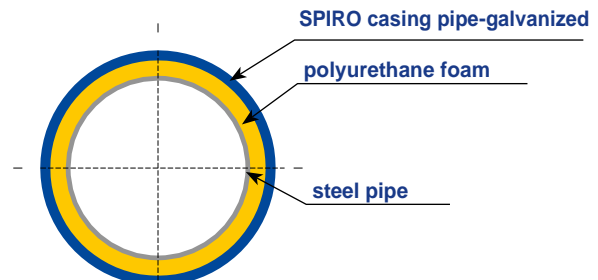


Fig. 2 ST-PU-SPIRO pipe design diagram

PURPOSE

PE-ST-PU-SPIRO and ST-PU-SPIRO pipes are used for construction of air conditioning and technological installations.

THE TRANSPORTED MEDIUM CAN INCLUDE:

- water, chilled water
- brine, other water solutions (acceptable only for PE-ST-PU-SPIRO pipes)
- chemically aggressive fluids (acceptable only for PE-ST-PU-SPIRO pipes)

PARAMETERS OF USE:

- pressure up to PN 160
- temperature -20°C to +60°C (PE-ST-PU-SPIRO) and -20°C to +130°C (ST-PU-SPIRO)

PIPE CONNECTION

METHODS:

- Victaulic system
- connectors welded
- collar connections

PE-ST-PU-SPIRO AND PE-ST-PU-SPIRO PIPE CHARACTERISTICS:

- good thermal insulation (worse than in the case of pipes with polyethylene jacket)
- possibility of insulating the connection

ADDITIONAL BENEFITS OF PE-ST-PU-SPIRO PIPES:

- high smoothness of polyethylene pipe internal surface that reduces flow resistance, high
- resistance to abrasion by fluids with solid suspensions
- high chemical resistance to most substances present in transported media
- no deposit build-ups – hydraulic parameters constant in time
- no corrosion of the internal insert,
- enhanced durability in relation to steel pipes



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