

PRE-INSULATED PIPES AND FITTINGS

PE-ST-PU-PE and ST-PU-PE type

used in mining

MATERIAL

polyethylene insert, steel pipe,
flame retardant polyurethane foam,
flame retardant polyethylene
covering pipe, antistatic

APPLICATION

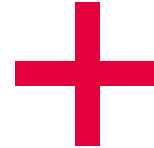
in the rooms and underground excavations in "a", "b"
or "c" class of methane explosion danger and "A" or
"B" class of coal dust explosion danger.

RANGE

Ø 42.4 to Ø 508 mm – ST-PU-
PE type pipes

Ø 88.9 to Ø 508 mm – PE-ST-
PU-PE type pipes

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



CONSTRUCTION

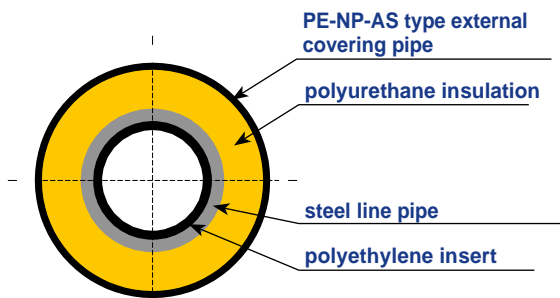


Fig. 1 PE-ST-PU-PE pipe design diagram

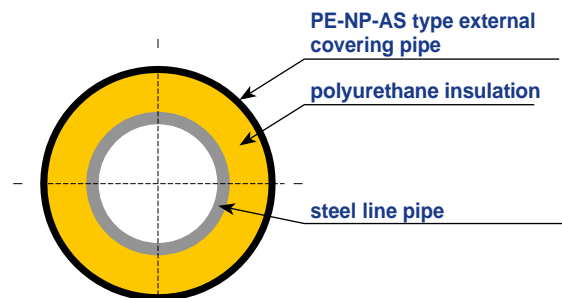


Fig. 2 ST-PU-PE pipe design diagram

PURPOSE:

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

Pipes can be used in underground mining facility excavations and in surface mining installations.

THE TRANSPORTED MEDIUM CAN INCLUDE:

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

PARAMETERS OF USE:

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

PIPE CONNECTION METHODS:

- Victaulic system
- connectors welded
- collar connections

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

- very good thermal insulation (better than SPIRO external jacket pipes)
- no thermal bridges on connections (in version with connection insulation)
- no external corrosion of the covering pipe

ADDITIONAL BENEFITS OF PE-ST-PU-PE 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 line pipe
- very good insulation – low thermal conductivity coefficient
- enhanced durability in relation to steel pipes