



ASGARD INDUSTRIAL SYSTEMS LTD.

District Heating / Cooling Preinsulated Pipework and Fittings.



District heating has gained immensely in importance over the last thirty years and is now an integral part of our modern understanding of rational and sustainable use of energy. The basic concept of district heating is to physically separate sources of heat and consumers spatially. Via a heating supply network heat is transported to consumers that can be located several kilometres away. Only then are particular forms of economical and environmentally friendly heat supply possible. For example, heating supply networks enable the following:

- Use of surplus and waste heat from electricity production (cogeneration) that would otherwise be lost.
- Use of industrial waste process heat that would otherwise be lost.
- Use of large geothermal resources
- Integration of elaborate technology for waste gas treatment, which is often only useable in large systems due to economical factors.
- Use of fuels that are normally only used in combination with increased operational demands (i.e. particular forms of biomass). For consumers, district heating constantly functions fully automated.
- Integration of large heat storage facilities in the supply of heat. Heat storage facilities can, for example, help to homogenize power plant operation (with cogeneration) and subsequently achieve a better degree of efficiency. Additionally, fluctuations in the availability of heat during the course of the day can be regulated (i.e. with large solar power systems). Also, heat storage facilities can be used in order to temporarily convert excess production of electricity (i.e. from wind power or photovoltaic) into heat and use it efficiently for heating purposes. The storage of heat can be less costly in individual cases than the storage of electricity, for example in batteries or pumped storage power stations. Above all, district heating provides residential buildings, public facilities and industrial organizations with heat to be used to heat rooms and water, whereby the heat is delivered by the producer to the consumer by means of a piping system – clean, energy efficient and low in emissions!

Rigid Network Systems



The classic pre-insulated piping system, which has been well-proven in practice and is constantly improved upon through technical innovation.

Flexible Network Systems



Flexible network systems are ideally suited to smaller-scale district heating networks and for difficult installation situations. The system is characterized by its simple operation.



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Industrial Pipes

We can provide the right pre-insulated pipe for every application where fluids are to be transported, whether juice or chemicals, warm or cold.



Shut-off Valves

Reduced or full bore shut-off valves and the corresponding accessories for single and double piping systems, and as a combination with drainage or ventilation.



Connection Technology & Casing Pipes

connectors.

Pipe coupling design for the varying technical requirements. All PEHD connector sleeves are conducive to the construction of gas-proof and waterproof casing pipe

Accessories



"*One source solutions*", we will also gladly provide you with additional elements such as branch pipe boring, wall penetration or assembly materials.



Network Monitoring

In order to register and contain any damage at an early stage, reliable network monitoring technology is essential nowadays. We can provide the right solution for every piping network.