

ISOBRUGG steel-cased piping is suitable for use with all the media, temperatures, piping dimensions and pressure stages standard in distant heating and cooling depending on the piping materials and sidewall thickness. In addition, it is also used in industry as product piping:

Standard applications: warm water
up to +200 °C hot water
domestic hot water
thermal oil
condensate

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High temperatures: steam
up to +300 °C hot air and gasses

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Low temperatures: chemical products (safety piping)
to -30 °C cooling water, refrigeration

Isobrugg steel-cased piping is excellen for: difficult ground conditions
wet ground
subsidence-endangered areas
stream crossings (drains)
road crossings

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Prefabricated Steel Cased Pipe

ISOBRUGG

System Description

Steel-cased piping has been field-proven over decades as a "steel-in-steel" piping system for laying direct in the ground, suitable for transporting distant heat, steam, condensate and other media.

Both the straight special units up to 16 metres in length and all the system-typical components such as bends, junctions, anchors, supports, etc. are pre-fabricated ex works. This means greater safety by comparison with on-site assembly.

Steel-cased piping is suitable for all the application areas and operating conditions met in practise, but especially for extremely high temperatures and pressures.

Strictly project-related pre-fabrication ensures the economic relationship of production costs to operating needs. The choice of carrier piping specification, determination of insulation thickness and calculation of the casing nominal dimensions is always dependent on the specific operating conditions.

The gas- and water-tight welding of the carrier pi-

ping to the casing piping in shaft and construction bushings is standard in steel-cased piping. It is the pre-condition for the evacuation of the space between the carrier and casing piping. This evacuation ensures removal of any residual damp. At the same time, the insulation of the piping is greatly improved.

Vacuum maintenance and monitoring ensures excellent means of checking that the system does not leak. This ensures safety during the operation of the system.

Further safety measures are the carefully project-related cathodic corrosion-proofing preventing external corrosion of the casing piping. In addition, electronic monitoring devices warn immediately of any damp entering the insulation.

The robust tailored design on the basis of long experience in building and using this piping system makes steel-cased piping a top-quality, safe transport means for all temperatures.

