

Why vacuum insulated pipelines (VIPs) for LNG transfer?

Vacuum insulated pipelines will save you money and time compared to conventional foam insulation:

1. Smaller outer pipe diameter and less steel structure
2. Shorter installation time on site
3. Reduction of expansion loops
4. Longer lifetime of pipe system
5. More effective insulation with less boil-off



schwannner
CRYOGENIC VACUUMTECHNOLOGY



Our latest LNG project

Total piping length – 12 km (7.5 miles)

Inner pipe diameters – 20" and 24"

Number of spools – 440

Design pressure – 19 bar (276 psi)

Thermal conductivity – > 0.0007 W/mK

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ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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LIQUID
NATURAL
GAS



We manufacture vacuum insulated piping (VIP) since 1984 with inner diameters from 1/2" (DN10) to 20" (DN500) with a heat ingress <math>< 2.5 \text{ W/m}^2</math>. Besides VIP, we produce fully integrated cryogenic valves since 1990.

Unlike other cryogenic liquids, LNG is a commodity that requires transfer systems of much larger dimensions to be economically viable. We have successfully adapted our technology for diameters up to 40" (DN1000).



50 km / > 31 miles VIP since 1984
 25 000 valves since 1990