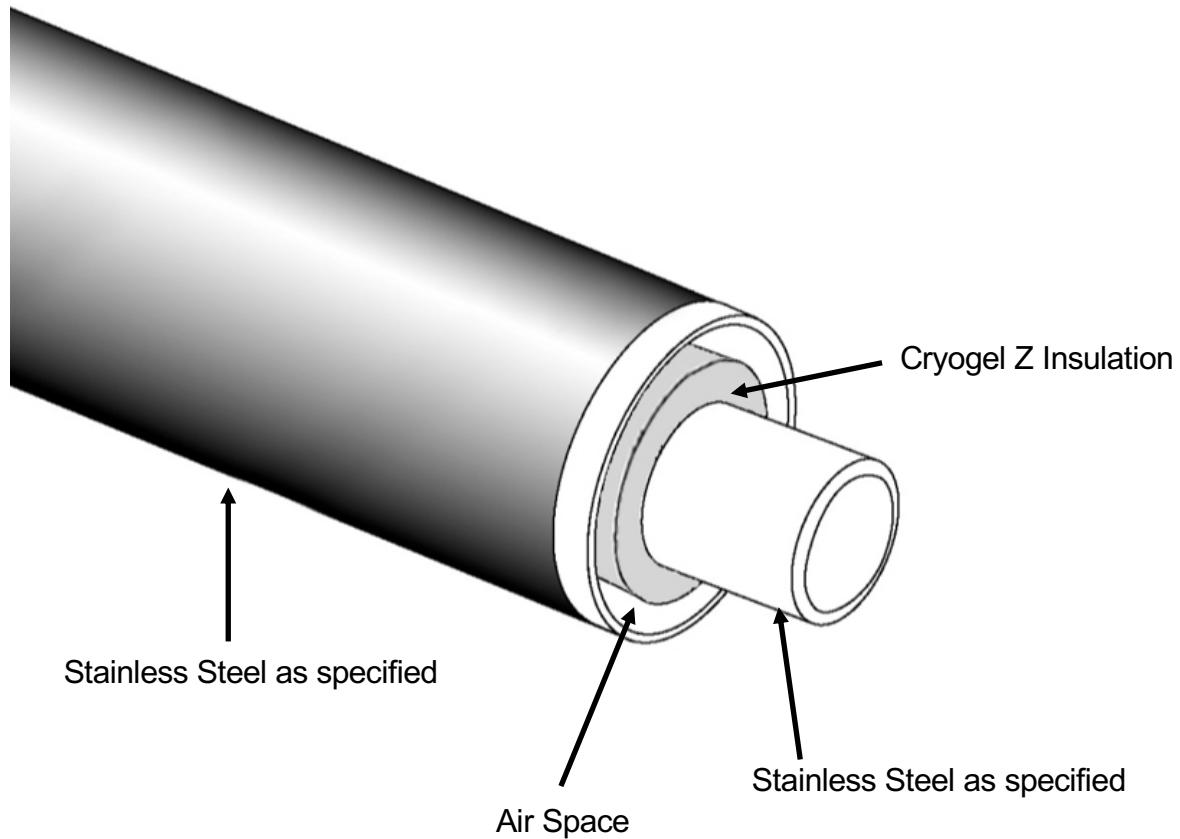


Rovanco LNG Pre-Insulated Stainless Steel Pipe



Rovanco's LNG Pre-Insulated Stainless Steel is designed for piping systems with durable Sch 10 minimum thickness metal containment. Supplied in 20' single random lengths, means an economical, high-quality system.

All elbows and tees are manufactured at Rovanco's plant using like material.

The containment comes complete with steel sleeves of like material the same thickness as the containment, and shrink sleeves to make the installation completely watertight.

To find out more about Rovanco's LNG Pre-Insulated Stainless Steel System, you can visit our factory, phone us (815) 741-6700, visit our website at www.rovanco.com or e-mail us at marketing@rovanco.com.

GUIDE SPECIFICATION

Carrier Pipe:

Stainless steel as specified in 20' lengths.

Insulation:

Cryogel Z flexible hydrophobic insulation which has a K factor of .10-.13 (dependent on temp), from 5mm-10mm thick depending on specifications, compressive resistance of ≥ 5 psi, linear shrinkage $<2\%$, water vapor absorption $\leq 5\%$ by weight, and maximum continuous service temperature of 257°F. Conformance with ASTM Standard C795, C1191, C1338, C1617, C1763, E84 and E96. Carrie pipe will be completely wrapped with insulation, installed & secured according to manufacturer's instructions. Provide written performance certification with submittals.

Inner Pipe Supports:

All pipe shall be aligned and supported within the casing with like material centering supports spaced on approximately 10'0". The inner pipe shall bear directly on the support. The support shall be designed as to permit drainage and free air passage. Concrete type pipe supports will not be allowed.

Outer Containment Casing:

Outer containment shall be stainless steel. Containment shall be Sch 10 thickness minimum. Other thickness are also available.

The exterior surface shall be smooth to permit free moisture drainage and removability of the inner assembly. The outer casing shall be sized to provide an adequate annular space between the outer surface of the pipe material and the interior surface of the casing.

Outer containment closures shall consist of like material and be field welded over adjacent units. After tests all exposed closures shall be covered in the field with a polyurethane heat shrink material with a minimum thickness of 60 mils..

Weld Fittings:

All changes in direction shall be made with bent or weld fittings of like material. Where tee branches are smaller than the mains they join, weld-o-lets may be used. All fittings shall be of like material the same wall thickness as adjacent piping. Fitting covers of like material and carrier fittings of like material will ship loose.

Anchors:

Anchors shall be pre-fabricated onto the piping units and shall be equipped with drainage and vent openings at the top and bottom of the anchor plate. Anchor plates shall be made of $\frac{1}{2}$ " steel plate of like material.

End Seal:

Terminal ends inside manholes, pits, or building walls shall be equipped with end seals. End seals shall be made of a $\frac{1}{2}$ " like material with drain or vent openings located diametrically opposite on the vertical center line of the mounting plate and shall be shipped to the jobsite with plugs in place. Terminate containment 2 inches beyond the inside face of building walls to protect any exposed piping from damp wall condensation.

Field Tests:

The inner pipe of the system shall be tested hydrostatically to 1-1/2 times the working pressure of the line. If a leak is found, it shall be repaired and the test repeated. The outer casing shall be tested with air at 15 psig and a soap solution shall be applied to the field joints to locate leaks. If leaks occur, they shall be repaired and the test repeated. After approved by test, all field joints shall be coated by the contractor. Before backfilling, the contractor shall test the containment coating with an electric holiday detector. Any breaks in the coating system will be repaired and the test repeated by the contractor.

Backfill:

Should be tampered compactly in place so as to assure a stable surface. No rock shall be used in the first foot of backfill. 24 inches, top of pipe to grade, of compacted fill shall meet H-20 Highway loading.

Installation:

The installation shall be made in accordance with plans and specifications, and manufacturers installation instructions. Manufacturer will provide a field service instructor on-site prior to fabrication of the piping to confirm routing, anchoring, support, and termination details. The field serviceman will also train the contractor in all phases of installation.

Approved Vendors:

LNG Pre-Insulated Stainless Steel Pipe System by Rovanco, Joliet, Illinois or approved equal. Any alternate supplier must be ISO 9001 Certified and submit their technical data to the engineer ten days prior to bid date to be approved in writing as an equal.

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