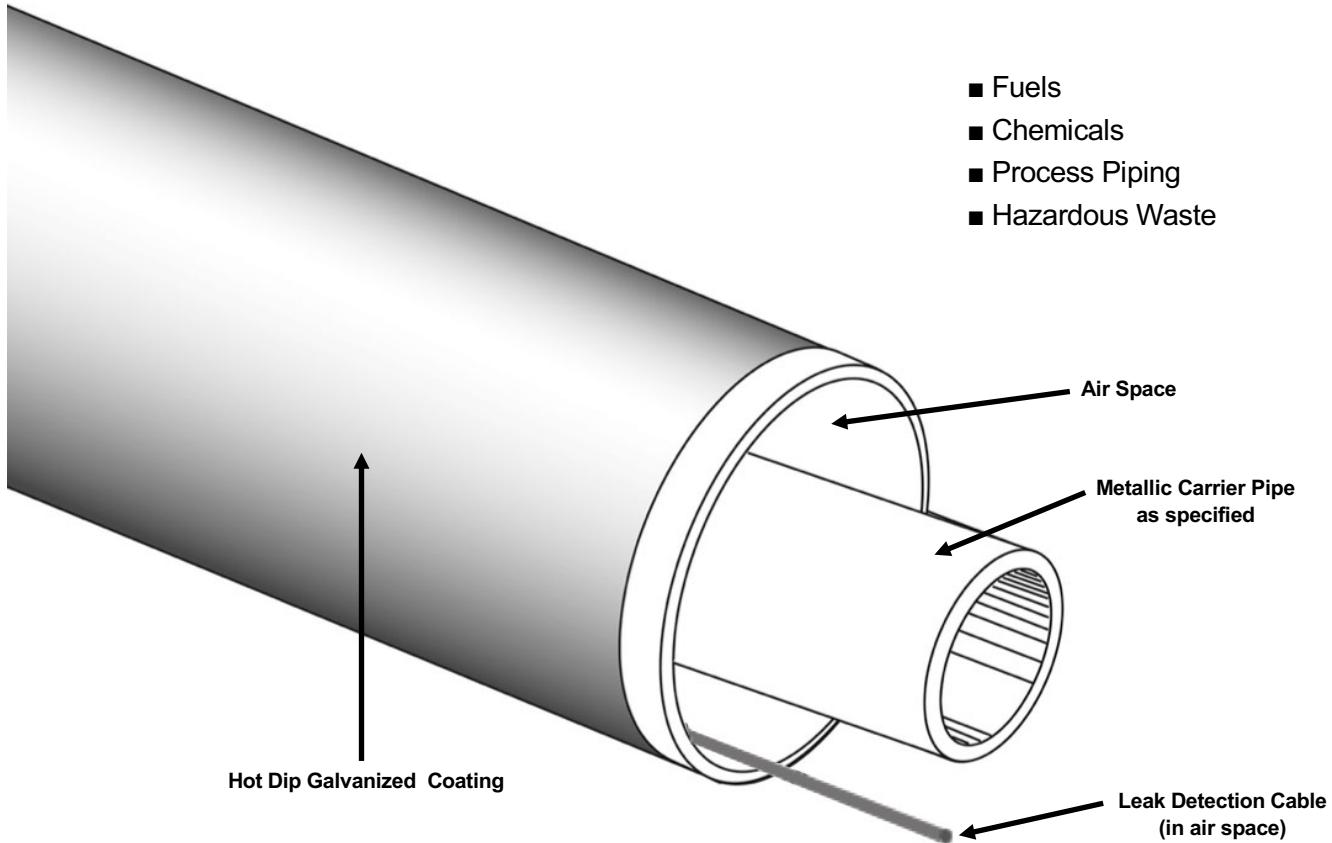


Galva-Coat Containment with Leak Detection

For Above Ground Applications



Rovanco's Galva-Coat Containment is designed for piping systems with durable 10 gauge minimum thickness metal containment. Supplied in 20' or 40' lengths, means an economical, high-quality system.

Rovanco can provide pre-fabricated fittings or the contractor favorite Quick Fit fitting covers. Quick Fit enables the contractor flexibility and the ability to re-route easily.

The outer containment is hot dip galvanized which keeps the jacket corrosion resistant.

The containment comes complete with steel sleeves the same thickness as the containment – the right product for applications of fuels, chemicals, etc.

To find out more about Rovanco's Galav-Coat containment system, you can visit our factory, phone us (815) 741-6700, fax us (815) 741-4229, visit our website at www.rovanco.com or e-mail us at marketing@rovanco.com.

GUIDE SPECIFICATION

Carrier Pipe:

A53B Black Steel pipe, Seamless or ERW, in pre-cut lengths. Pipe 10" and smaller shall be Schedule 40. Pipe 12" and larger shall be .375 wall. (Schedule 80) Other piping materials and thicknesses also available.

Inner Pipe Supports:

All pipe shall be aligned and supported within the casing with galvanized steel supports spaced on centers approximately 10'10". The insulated inner pipe shall bear directly on the steel support. The support shall be designed as to permit drainage and free air passage. All pipe passing through supports shall be insulated. Concrete type pipe supports will not be allowed.

Outer Containment Casing:

Outer casing shall be black steel. Casing up through 24" shall be 10 gauge. Casing 26" and larger shall be 6 gauge. The interior surface shall be smooth to permit free moisture drainage and removability of the inner assembly. The outer casing shall be sized to provide adequate annular space between the outer surface of the insulation material and the interior surface of the casing.

The exterior surface shall be hot dipped galvanized for corrosion resistance with industry standard mil thickness per ASTM A123. No glasswrap or filler materials shall be used. All exterior conduit surfaces shall be shot-blasted prior to the galvanized coating being applied.

Outer conduit casing closures shall consist of 10 gauge steel suitably rust proofed and in cylindrical form with a single horizontal split and shall be field welded over adjacent units. After tests all exposed closures shall be covered in the field with a polyethylene heat shrink material with a minimum thickness of 60 mils.

No asphalt, coal tar coating, FRP casing or any other type will be allowed.

Leak Detection:

Leak detection cable shall be located in the air space with model based on the liquid being conveyed. Various cable models available that can detect water, oil, fuel & other hydrocarbons, conductive liquids or as specified. Leak detection cable will be provided by the piping system manufacturer.

Expansion loops and Elbows:

Expansion loops or expansion elbows shall be furnished and enclosed in the same type of casing as those furnished for the standard section of the piping system. They will be of a size to permit the inner pipe or pipes to move without damage to the insulation material. All expansion loops or expansion elbows shall be pre-fabricated and shipped to the job site in as few pieces as possible (manufacturers' recommendation to govern). All inner pipe loops and expansion bends shall be cold sprung in the field by the contractor as required.

Weld Fittings:

All changes in direction shall be made with bent or weld fittings. Where tee branches are smaller than the mains they joint, weld-o-lets may be used. All fittings shall be same wall thickness as adjacent piping.

Anchor:

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 1/2" steel plate.

End Seal and Gland Seals:

Terminal ends inside manholes, pits, or building walls shall be equipped with end seals consisting of a steel bulkhead plate welded to the containment.

End seals shall be made of a 1/2" steel plate 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 pipes of this system shall be hydrostatically tested 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 conduit coating with an electric holiday detector. Any breaks in the coating system will be repaired and the test repeated by the contractor.

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 to train the contractor in all phases of installation.

Approved Vendors:

Galva-Coat Containment System by Rovanco, Joliet, Illinois or approved equal. Any alternative 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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