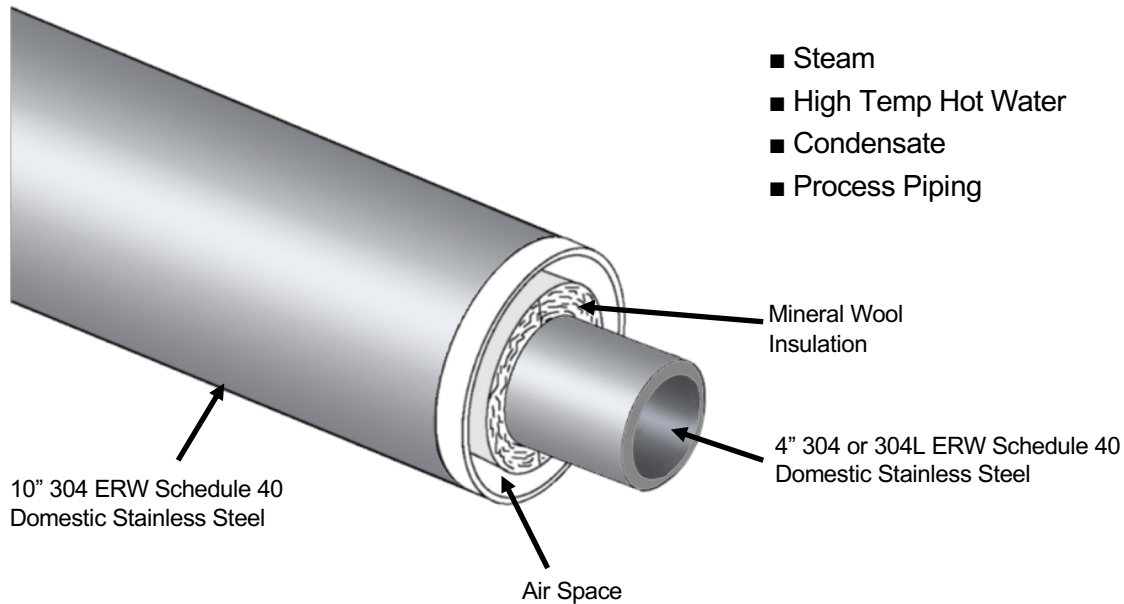


# Stainless Steel x Stainless Steel High Temp Conduit

**A Class "A" Drainable, Dryable and Air Testable Conduit  
For High Temperature Above or Below Ground Applications**



Rovanco's Stainless x Stainless High Temp Conduit is designed piping systems suitable for up to 700°F applications. Mineral Wool insulation, stainless steel conduit supplied in 40' lengths, means an economical, high-quality system.

Rovanco's conduit is provided with spooled out, part numbered, cut-to-length pieces factory manufactured to field dimensions. All elbows and tees are manufactured at Rovanco's plant.

The conduit system comes complete with joint insulation and split stainless steel sleeves the same thickness as the conduit casing with a shrink sleeve to make the installation completely watertight – the right product for applications of high pressure steam, condensate, hi-temp hot water, etc.

To find out more about Rovanco's SS x SS High Temp Conduit system, you can visit our factory, phone us (815)741-6700, visit our website at [www.rovanco.com](http://www.rovanco.com) or email us at [marketing@rovanco.com](mailto:marketing@rovanco.com).

# SS x SS High Temp Conduit GUIDE SPECIFICATION

High-Temperature Pre-Insulated Conduit Systems for Steam, High-Temperature Hot Water, Condensate, Etc.

## Carrier Pipe:

Shall be 4" 304 or 304L ERW Schedule 40 domestically produced stainless steel pipe, in pre-cut lengths. Pipe 12" and larger shall be .375 wall.

## Insulation:

Shall be sectional Mineral Wool ASTM C547 with a K factor of .31 at 200° F. Sectional insulation shall be 1 ½" thick, or as specified, and banded on pipe with stainless steel banding on 18" centers.

## Inner Pipe Supports:

All pipe shall be aligned and supported within the casing with stainless steel supports spaced on approximately 10'0" centers. The pre-insulated inner pipe shall bear directly on the stainless 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 Conduit Casing:

Outer casing shall be 10" 304 ERW Schedule 40 domestically produced stainless steel. 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 an adequate annular space between the outer surface of the insulation material and the interior surface of the casing. No asphalt, coal tar coating, FRP casing or any other type of coating will be allowed.

Outer conduit casing closures shall be stainless steel split sleeves. Closures are to 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.

## 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 main they join, weld-o-lets may be used. All weld fittings shall be long radius and shall be the same wall thickness & material as adjacent piping.

## Anchors:

Anchors shall be stainless steel and pre-fabricated onto the piping units. They shall be equipped with ¾" drainage and vent openings at the top and bottom of the anchor plate. Anchor plates shall be made of ½" stainless steel plate.

## End Seals and Gland Seals:

Terminal ends of conduit inside manholes, pits or buildings walls shall be equipped with end seals consisting of a stainless steel bulkhead plate welded to the pipe conduit. Where there is an anchor within five feet of the terminal end, conduits shall be equipped with gland seals consisting of a graphite Teflon packed box and gland follower mounted on the stainless steel plate welded to end of conduit.

End seals and gland seals shall be made of ½" stainless steel plate with ¾" drain and vent openings located diametrically opposite on the vertical center line of the mounting plate and shall be shipped to the job site with plugs in place. Terminate all conduit 2 inches beyond the inside face of building wall to protect any exposed piping insulation from damp wall condensation

## Field Tests:

The inner pipes of this system shall be tested hydrostatically to 1 ½ 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.

## Back Fill:

Should be tamped compactly in place so as to assure a stable surface. No rock should be used in the first foot of backfill. 30", top of the pipe to grade, of compacted fill shall meet the H-20 Highway loading.

## Installation:

The installation shall be made in accordance with plans and specifications, and manufacturer's installation instructions. Pipe system supplier will provide an installation instructor on site to train the contractor on all phases of installation if required.

## Approved Vendors:

SS x SS High Temp Conduit System manufactured by Rovanco, Joliet, Illinois, 815-741-6700, or approved, ISO certified, equal. Any alternative supplier must 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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**Contact Rovanco® for the name of your local Representative**

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