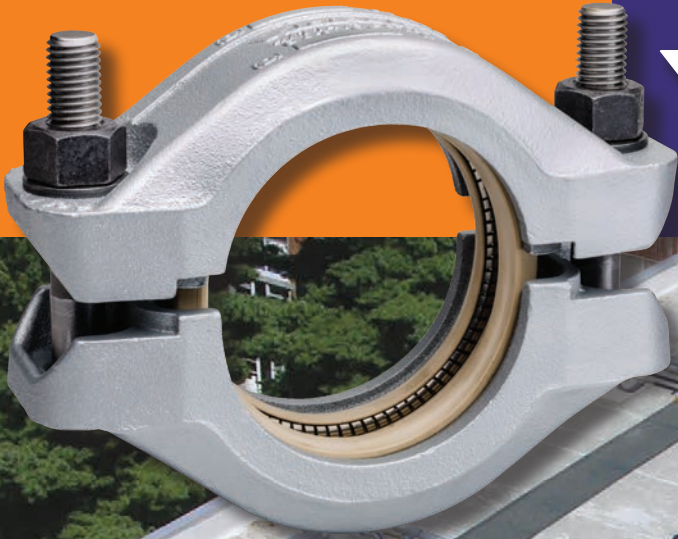


Rovanco® Piping Systems

WITH

 **ictaulic®** Technology



**No Hot
Works
Required**

Rovanco Piping Systems, Inc.

20535 S.E. Frontage Road

Joliet, Illinois 60431

Tel: (815) 741-6700

Fax: (815) 741-4229

www.rovanco.com • marketing@rovanco.com

Contact Victaulic for more information

Tel: (610) 559-3300

info@Victaulic.com

**ISO 9001:2015
CERTIFIED COMPANY**

 **PRI Registrar**
PERFORMANCE REVIEW INSTITUTE

*The most efficient, constructible and
sustainable steam and condensate system
for above ground and tunnel applications*

**Eliminates
Corrosion Under
Installation (CUI)
Concerns!**

Rovanco®

Above Ground Piping System

The most efficient, constructible and sustainable steam and condensate system for above ground and tunnel applications

Quality Manufactured Piping

- Non-flammable polyisocyanurate insulation **A**
- Spiral lock seam jacket of aluminum, stainless or galvanized steel **B**
- A-53 Grade B, ERW or Seamless, Schedule 40 for steam and Schedule 80 for condensate **C**
- Supplied in economical 20' or 40' lengths
- No CUI concerns
- Watertight design assures years of trouble-free service & dependable performance
- Victaulic proprietary OGS-200 groove profile for steam and condensate in both ends of carrier pipe **D**

Efficient & Economical

- Most energy efficient piping (minimal heat loss) in the industry
- Piping arrives completely assembled ready for installation
- Pre-Insulated saves labor associated with field insulating
- Fittings easily field-insulated with supplied materials
- Can be supported with maximum support spans & minimum guides

Options

- High-temp piping available in 300°F or 400°F ratings
- Tube(s) for electrical heat trace function, steam trace or glycol heat trace **E**
- Painted outer jacket so piping blends with installed surroundings **F**

Above Ground Piping Systems by Rovanco are the ideal solution for:

- Where steam, condensate, high temp hot water & domestic water need to be moved from a source to a destination
- Long spans over an open, sparsely populated environments where tunneling/trenching are an unnecessary expense
- Roof-top or suspended installations on/around existing structures or parking lots where tunneling/trenching costs are prohibitive
- Above ground repairs on existing piping systems



Victaulic®

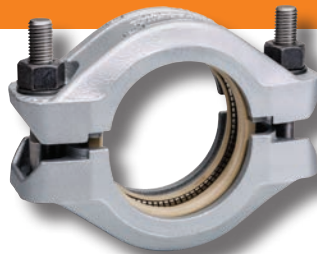
Style 870 Rigid Coupling

Designed for use on commercial and industrial steam applications as well as condensate lines in Hospitals, Universities and Industrial Applications such as Pharmaceuticals, Food Processing, Electronics or any other manufacturing process that utilizes steam or condensate lines.

- For Pressures up to 200 psi
- For Temperatures up to 388°F
- Available in 2" to 8" Sizes
- For use on Schedules 40 & 80 carbon steel & Schedule 40 stainless steel pipe

Features

- **Total System** – system features the Victaulic Style 870 rigid coupling, OGS-200 fittings, Style 159 expansion joint, Series 871 gate valve & pipe grooving tools. The Style 870 coupling features an Elgiloy™, spring-energized, PTFE composite seal, which is fully encapsulated by the two ductile iron housings.
- **Rovanco has all the fitting insulation kits for your system**
- **Saves Time & Cost** – reduce construction schedules by as much as five times versus welded pipe.
- **Safer & More Sustainable** – does not require heat or flame nor does it produce fumes, eliminating hazards to personnel and property during installation. No hot works permits, fire watches, confined space welding concerns, X-ray inspection of joints or environmental factors such as inclement weather conditions that complicate welding.
- **On Pre-Insulated piping, contractor only needs to insulate the joint – making it the fastest system the market has ever seen!**
- **Maintenance-Free & Victaulic Reliability** – Victaulic couplings are designed to last the life of the piping system without any maintenance. Victaulic has been the leading global producer of mechanical pipe joining solutions for over 100 years, including the only dedicated grooved steam and condensate system.
- **Rovanco has "Thousands of Miles of Experience" at providing our customers with the absolute Best Product at the Best Price!**



870 Rigid Coupling

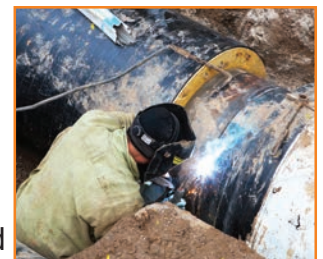


871 Gate Valve



Series 159
Flexible Expansion Loop

**Installation Completed Up To 5 Times Faster
Than Welding, Threading or Flanging!**



STANDARD SPECIFICATIONS FOR ABOVE GROUND PRE-INSULATED PIPING SYSTEMS

For complete and more detailed specifications, please contact the Rovanco factory

Carrier Pipe Types:

A-53 Grade B, ERW or Seamless, Schedule 40 for steam and Schedule 80 for condensate. Lengths shall be 20' or 40', random as specified. Other metallic pipes available. Victaulic groove will be premanufactured on the piping system to the proprietary OGS-200 groove profile.

Insulation (2 Temps):

300°F

300HT Hi-Temp Carrier pipe insulation is hi-temp foam insulation K Factor of .165 density 2 PCF, closed cell content 90%, compressive strength of 35 PSI, and carrier temperature of 300°F and shall conform to ASTM standard D1621, 1622, 1623, 2126, 2842, 2856, and C518-91 completely filling the space between the carrier pipe and jacket. Provide written independent performance certification with submittals.

400°F

400HT Hi-Temp foam insulation has a K factor of .15, density of 2-1/2, closed cell content of 90%, compressive strength of 35 psi, and continuous service temperature of 400°F. Insulation must

be capable of handling intermittent temperature spikes to 450°F for one hour. Conformance with ASTM Standard 1621, 1622, 1623, 2126, 2842, 2856, and C518-91. Completely filling the annular space between the carrier pipe and jacketing. Provide written performance certification with submittals.

Insulated Fittings and Joints:

All straight joints and fitting joints shall be insulated using material supplied by system manufacturer. Hump covers if needed. Victaulic Style 870 rigid coupling.

Jacket Fitting & Joint Covers:

Provide metal covers designed to fit snugly on the jacketing to provide a watertight closure. All covers shall be banded in place with 3/8" wide aluminum or stainless steel straps and will be the same thickness as the jacketing. Vapor barrier included when needed.

Anchor:

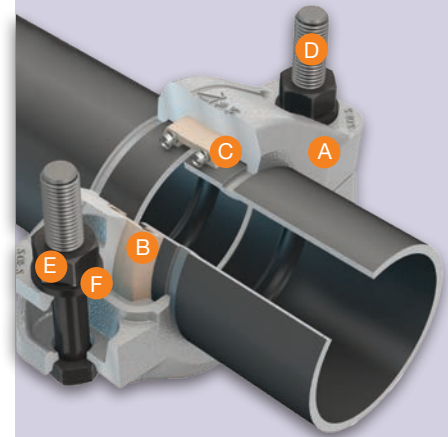
All anchors will be 1/2" thick steel plate welded to internal pipe and sealed at jacket areas per manufacturer's recommendations.

Approved Vendors:

The Rovanco above ground steam system is engineered for use with Victaulic Style 870 rigid couplings and OGS-200 grooved end pipe. All other manufacturers wishing to bid on this project must provide the engineer with certified test data from either foam manufacturer or an independent testing agency that the product is capable of withstanding the service temperature continuously. The manufacturer shall obtain written approval from the engineer 10 days prior to bid date.

*Contact our home office or local representative for insulation sizing.

Victaulic Style 870 Rigid Coupling ASTM Code Compliant Materials



- A Housing:** Ductile Iron with Zinc Coating
- B Seal:** Polytetrafluoroethylene (PTFE) Composite with Extremely High Chemical Resistance & Heat Tolerance
- C Spring Energizer:** Cobalt-Chromium-Nickel Alloy Conforming to AMS 5833
- D Hex Bolts:** ASTM A193, Grade B7, Plain Finish
- E Heavy Hex Nuts:** ASTM A194, Grade 2H, Plain Finish
- F Washers:** ASTM F436, Type 3 Plain Finish

Jacket Size	Aluminum Jacket Spiral Aluminum with impact and Chemical resistance equivalent to H-14 Temper T-3003 in accordance with ASTM-B-313 specifications.	Galvanized Steel Jacket Spiral Seam Galvanized Steel in accordance with ASTM A-366 ASTM A-526 G-90
4	22 Gauge	26 Gauge
6	22 Gauge	26 Gauge
8	22 Gauge	26 Gauge
10	22 Gauge	26 Gauge
12	22 Gauge	26 Gauge
14	18 Gauge	22 Gauge
16	18 Gauge	22 Gauge
18	18 Gauge	22 Gauge
20 & larger	18 Gauge	22 Gauge

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Contact Victaulic for more information • Tel: (224) 221-7367 • Andrew.Kroeger@Victaulic.com

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