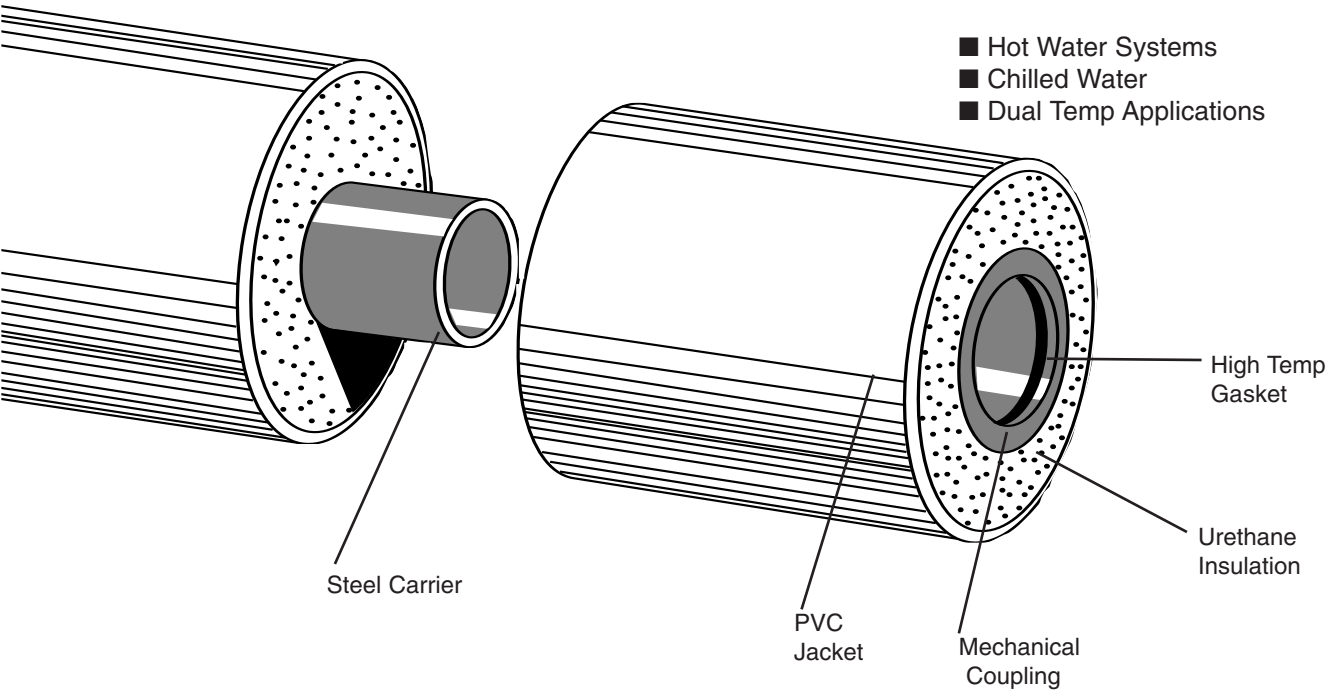
Rovanco Steel Gasketed Coupling System

Steel Gasketed Systems offer positive, watertight, pre-engineered expansion and contraction, and easy field installation.



- Schedule 40 or 80 Carrier Pipes
- Urethane Foam Pre-Insulated
- Strong PVC Jacket
- Positive Gasket Seal

This exceptionally strong, rugged outer PVC jacket takes harsh punishment and severe environmental conditions in stride, from high loads, prolonged moisture, corrosive chemicals, salt and fungus, to vermin, abrasion and extreme temperatures.

Urethane Foam Insulation. With an initial K factor of just .13 BTU in/hr/ft^2, urethanes heat loss is 50 percent less than the next most efficient commercial pipe insulating material. Urethane foam means minimal heat dissipation with a thickness 1/3 that needed for other insulations. Additionally, urethane foam is chemically stable and has great load bearing properties and is pre-formed in place in our plant.

Carrier Pipe. This can be either Schedule 40 or Schedule 80 A-53 B ERW or SML carbon steel in sizes ranging from 2" through 12". Ends of steel pipe are factory dressed to exact dimensions.

Unique Coupling System simplifies field joints and provides specified expansion and contraction compensation, yet makes systems permanent. 20' or 40' system is provided in with a separate coupling containing Gasket seals.

When segments are joined with the Gasketed coupling, the Gasket is compressed to form a watertight joint with pipe ends factory dimensioned to compensate for expansion and contraction.

After testing, the coupling area is sealed to effect a watertight joint. This results in expansion and contraction of carrier pipe without sacrificing insulation quality, outer jacket strength or impermeability.

No need for costly loops or more complex joints with Gasket Coupling System, and you get the Gasket's reputation as a positive seal.

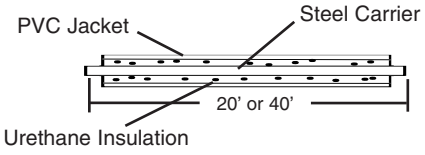
Fittings are provided as either Welded or Gasketed per customer's preference.

Pressure - Temperature Rating. Rovanco's Gasketed Systems are engineered and designed for 150 psig continuous working pressures through temperatures ranging from 0^0 to 210^{0}F.

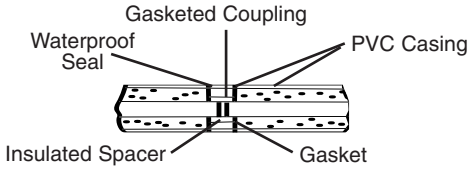
To find out more about Rovanco's Steel Gasketed Coupling System, call or fax Rovanco at (815)741-6700, FAX: (815)741-4229, or visit our factory.

STEEL GASKETED PIPING SYSTEM

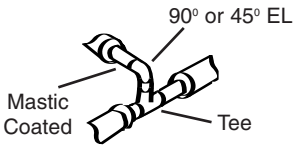
For Underground Hot Water, Chilled Water and Dual Temperature Applications



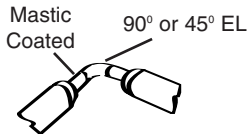
Detail No. 1 - Pipe Section



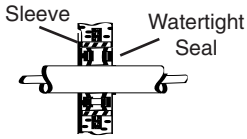
Detail No. 2 - Coupling Detail



Detail No. 3
Crossover Tee



Detail No. 4
Elbow



Detail No. 5
Typical Entry Detail

NOTE: Fittings are available as Gasketed or Butt Welded.

Carrier Pipe:
A-53 grade B ERW or SML in Schedule (40) or (80).

Insulation:
Polyurethane foam with the following minimum characteristics: K Factor - .13, Density 2 pcf, Closed Cell Content - 90-95% in conformance with MIL-I-24172 and ASTM C-591 completely filling the annular space between carrier pipe and jacketing. Minimum insulation thickness shall be in accordance with Table 1.

Jacketing Material:
High impact, seamless Polyvinylchloride (PVC) Class 12454-B compound conforming to ASTM 1784, Type 1, Grade 1, through 16" diameter. No FRP jacketing will be allowed. Minimum jacket thickness shall be in accordance with Table 1.

Table 1:

Nominal Pipe Size in Inches	Minimum Insulation Thickness in Inches	Jacket Size in Inches	Jacket Thickness in Mils
2	1.81	6	70
2 1/2	1.56	6	70
3	1.25	6	70
4	1.75	8	80
6	1.68	10	100
8	1.68	12	120
10	1.64	14	140
12	1.46	16	160

Joining Method:
Straight lengths of pipe will be joined with the Insul-8 Coupling that compensates for expansion and contraction.

Fittings:
All fittings shall be either butt welded steel in the same type and weight as the carrier pipe or Gasketed.

End Seal:
All exposed urethane foam will be sealed water-tight before the system is buried.

Insulation of Coupling Joints:
Coupling joints shall be factory insulated with urethane foam and sealed watertight with a Polyethylene Shrink Sleeve.

Thrust Blocks:
All changes of direction, i.e. 90 degree els, 45 degree els, tees, etc. will be poured in concrete thrust blocks to form anchor points and direct the expansion and contraction.

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

Approved Vendors:
Steel Gasketed Pipe System by Rovanco, Joliet, Illinois. Any alternate supplier must submit their technical data to the engineer ten days prior to bid to be approved in writing as an equal.

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