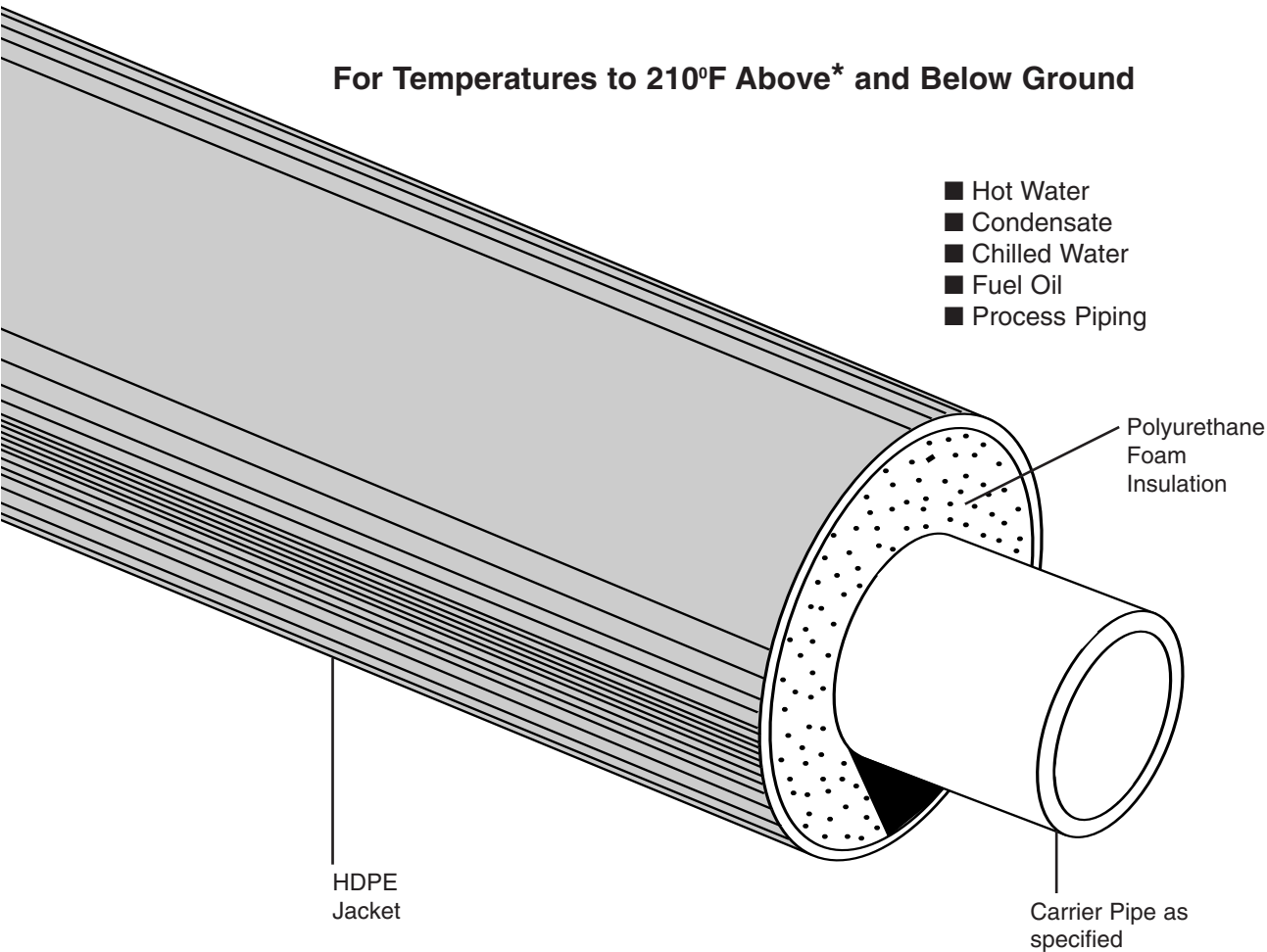


# Rovanco HDPE Jacketed System

For Temperatures to 210°F Above\* and Below Ground



Rovanco's High Density Polyethylene (HDPE) Jacketed System is designed for piping systems above or below ground suitable for inside or outside applications. High quality polyurethane foam insulation combined with a durable watertight jacket supplied in 20' or 40' random lengths, means an economical, high-quality system.

Rovanco's System is provided with a jacketing of HDPE, which can be supported from the outside with maximum support spans. Fittings can be either field insulated or factory fabricated as specified.

The HDPE System comes complete with the carrier pipe of your choice, joint insulation materials and jacketing to make the installation completely watertight for applications of process fluids, hot water, pumped condensate, chilled water, etc.

To find out more about Rovanco's HDPE System, you can visit our factory, phone us (815)741-6700, fax us (815)741-4229, visit our web site at [www.rovanco.com](http://www.rovanco.com) or e-mail us at [marketing@rovanco.com](mailto:marketing@rovanco.com).

\*For higher temperatures, consult factory.

# SPECIFICATION DATA SHEET

## Steel Piping System For Low Pressure Steam, Condensate, Chilled or Hot Water, Fuel Oil, and Process Piping Applications

### Carrier Pipe Types:

#### HDPE

The pipe shall be made from polyethylene resin compound with a minimum cell classification by PE345434C for PE3408 materials per ASTM P3350 and D2837. Shall contain 2% dispersed carbon black.

Piping and fittings are available in 10 different pressure classes as designated by dimensional ratios (DR) from 32.5 at 50 psi through 6.3 at 300 psi for water service at 73° .

Assembly is by thermal butt fusion for a fast, economical; and long-term performance installation.

#### PVC

Schedule 40/80 solvent weld. Other classes and schedules of PVC pipe are available.

#### Type (K) or (L)

Hard Drawn Copper Tubing conforming to ASTM B-88.

#### Steel

A-53 Grade B ERW in Schedule (40) or (80). Pipe 10" and above will be standard weight .375 wall or extra heavy .500 wall.

#### Fiberglass

Series 2000 Bondstrand\* filament wound fiberglass reinforced epoxy, bell, and spigot, designed to withstand 250°F. Pipe to be in conformance with MIL-SPEC P28584A and P22245A.

Series 3000 Bondstrand\* filament wound fiberglass reinforced epoxy, bell, and spigot, designed to withstand 210°F. Pipe to be in conformance with MIL-SPEC P29206A.

Other carrier pipe types are available upon request. Factory fabricated and pre-engineered to actual field dimensions.

#### 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:

The outer casing shall be high density polyethylene (HDPE) conforming to ASTM D1248 and D3350, Type III, Category 5, Class C and Grade P23/P34. With a minimum of 2% by weight of carbon black. Minimum thickness is 150 mils. No FRP overwrap or sprayed 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 Mills
2	1.81	6.63	150
2 1/2	1.56	6.63	150
3	1.25	6.63	150
4	1.75	8.00	150
5	2.22	10.00	150
6	1.68	10.00	150
8	1.68	12.43	175
10	1.64	14.06	175
12	1.46	15.87	175
14	1.72	17.83	200
16	1.70	19.80	200
18	1.89	22.17	200
20	2.24	24.92	225

\*Larger pipe sizes are available upon request.

### Joining Method:

Straight lengths of pipe will be joined by pipe type method.

### Fittings:

All fittings will conform to pipe type and will be insulated and jacketed with materials supplied by the system supplier as per manufacturers' standard procedures.

### End Seals:

Each length of pre-insulated pipe will be fitted with a watertight mastic end seal at jacket and pipe surfaces. All field cuts will be sealed with a field applied end seal.

### Insulation of Straight Joints:

After welding and testing, all joints shall be insulated and sealed as per manufacturer's standard procedures.

### Backfill: (if below ground)

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.

### Manufacturer's Assistance:

Rovanco will provide a field service man on-site to properly train the installing personnel in all phases of installation. (if required)

### Approved Vendors:

HDPE Pipe System by Rovanco, Joliet, Illinois or approved equal. Any alternate 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 Your Rovanco® Representative

**Rovanco** 20535 S.E. Frontage Road  
Joliet, Illinois 60431  
(815) 741-6700  
FAX (815) 741-4229