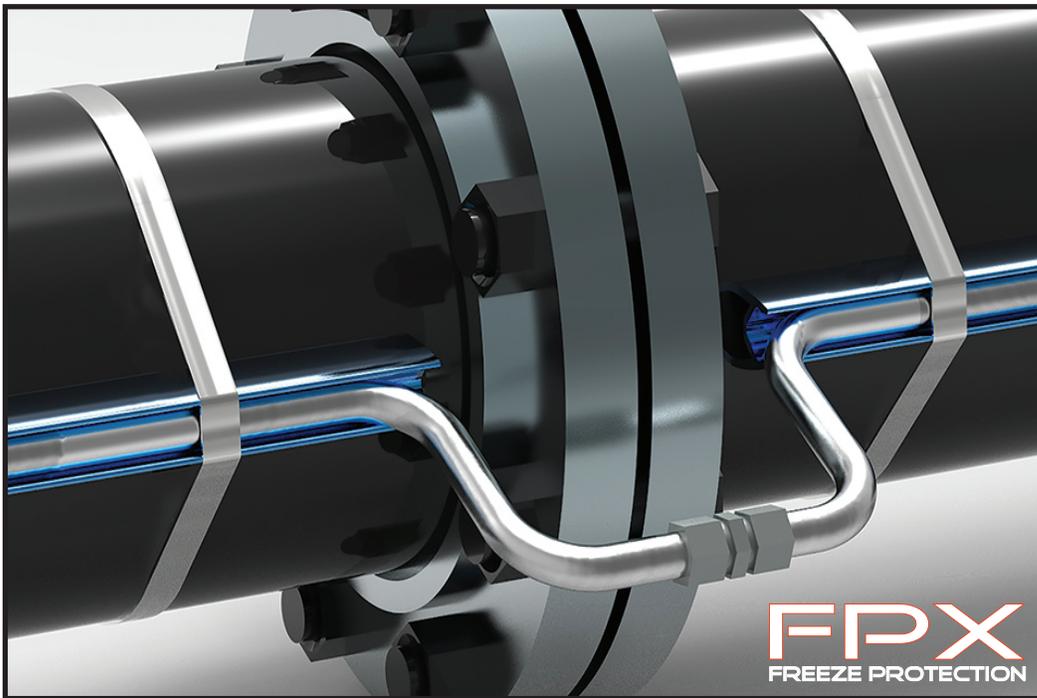
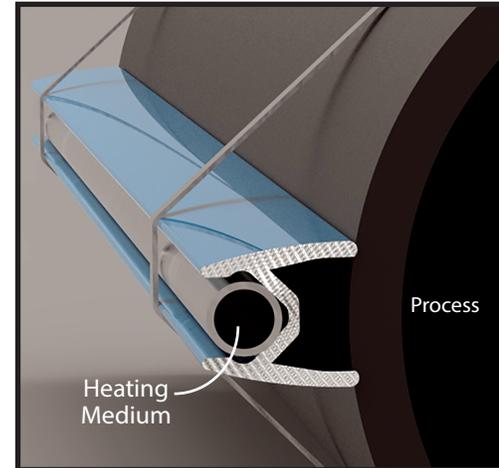




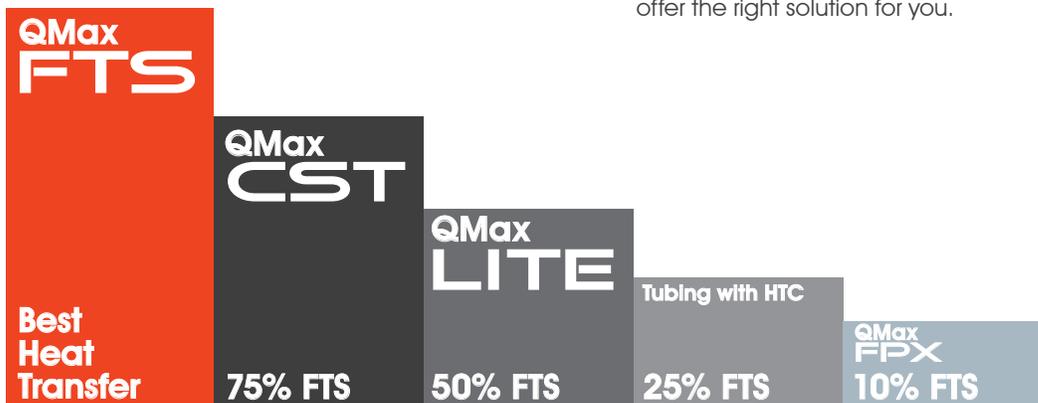
QMax FPX (Freeze Protection)

is a continuous steam tracing standoff designed specifically for pipeline freeze protection. The **QMax FPX** design mitigates the heat transfer of regular stainless steel or copper tube tracer and offers guaranteed results. Most steam tracing standoffs are poorly designed or not designed at all. Tubing often touches the pipe which creates hot spots that can lead to internal corrosion. **QMax FPX** continuous steam tracing standoff mitigates hot spots while offering predictable process temperatures.

QMax Industries, Inc. models the thermal characteristics of each application so the results of the **QMax FPX** system are guaranteed. The profile of **QMax FPX** is customized to each individual pipe size to ensure the best results for each application.



Heat Transfer Comparison



*Based on simulations of various process temperatures of several processes including Sulphur, Asphalt and Water.

Please fill out our **QMax FPX** Evaluation Questionnaire and send it to your sales representative for individual attention.

We treat every application uniquely to offer the right solution for you.



QMax Industries, Inc. is a technology company based in Charlotte, NC, with several innovations in the field of process heating.

- Our specialties include:
- >High Performance Steam Tracing
 - >High Performance Electric Tracing
 - >Equipment Jacketing
 - >Tank Heating

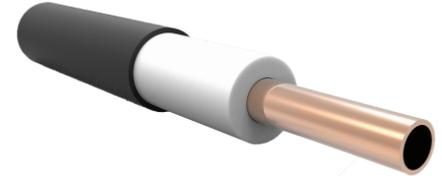
"We're committed to being the world leader in steam tracing technologies"

Thomas W. Perry
President

Contact **QMax Industries**
sales@qmaxindustries.com
704.643.7299

VIPERLINE™

Preinsulated Tubing



Introduction:

QMax ViperLine™ Preinsulated tubing is thermally insulated with a non-hygroscopic inorganic fiberglass material and protected with a flexible black flame-resistant PVC jacket.

Performance Data:

QMax ViperLine™ is thermally insulated for transfer of fluids or gases up to 400°F (204°C) while maintaining an outer jacket surface temperature of 140°F (60°C), meeting NEC Personnel Protection Code 427.12.

Insulated bundles rated up to 1200°F (649°C) are available upon request. Contact QMax Industries for more details. Tubing is available in many alloys and sizes, including metric size.

General:

QMax ViperLine™ is designed to provide an economical and highly efficient method of conveying steam or other hot materials through a plant and is intended to replace hard piping and field-installed insulation.

Applications:

QMax ViperLine™ products are typically used in steam supply lines, condensate return lines, cooling water lines, lubrication lines, refrigeration lines, and liquid nitrogen lines.

Tubing:

Type 122 DHP Seamless Copper and 316/316L Welded and Seamless Stainless Steel are standard. Additional materials and wall thicknesses are available upon request. Consult QMax Industries for details.

Insulation:

Air-spaced, cross wrapped applied non-hygroscopic fiberglass thermal insulation for minimum heat loss. Optional insulation thicknesses are available; such as, 0.36", 0.72" and 0.96" insulation used in Cryogenic, Liquid CO2 and Liquid Nitrogen applications. For other thicknesses consult QMax Industries.

Jacket:

The tough, black, 221°F (105°C) rated, flame-resistant PVC (FR PVC) jacket protects the tubing against corrosive atmospheres, water, oils, acids, alkalies and most chemicals. Additional jacket materials are available upon request. Consult QMax Industries for additional details.

Testing:

Each tube in every length of QMax ViperLine™ preinsulated tubing is pressure tested prior to shipment to assure the instrument engineer a high quality, reliable, trouble-free product. For Testing Specifications contact QMax Industries.

Accessories:

Accessories are available for connecting multiple lengths of QMax ViperLine™ tubing bundles and sealing bundle ends. NOTE: It is absolutely necessary to seal the ends against contamination from moisture and/or corrosive liquids. QMax Industries cannot assume any liability for product damage caused by moisture from unsealed ends.

QMax ViperLine™ Part Numbering

Sample Part Number: QVL-316-SML-08-35-FRPVC-N

1 2 3 4 5 6

1 Tubing Type I:
 316 = 316/316L ASTM A269 Stainless Steel
 304 = 304 ASTM A269 Stainless Steel
 COP = DHP Alloy No 122 ASTM B68/B75 Copper

2 Tubing Type II:
 SML = Seamless
 WLD = Welded

3 Tubing Outside Diameter:

Imperial:	Metric:
06 = 3/8"	8mm = 8mm
07 = 7/16"	10mm = 10mm
08 = 1/2"	12mm = 12mm
10 = 5/8"	14mm = 14mm
12 = 3/4"	16mm = 16mm
16 = 1"	

4 Wall Thickness:

Imperial:	Metric:
32 = .032"	10 = 1.0mm
35 = .035"	15 = 1.5mm
40 = .040"	20 = 2.0mm
47 = .047"	25 = 2.5mm
49 = .049"	
50 = .050"	
62 = .062"	
65 = .065"	
83 = .083"	

5 Jacket Material
 Note: QMax standard jacket material is FRPVC.

FRPVC = Fire-Resistant Polyvinyl Chloride
 FRTPE = Fire-Resistant Thermoplastic Elastomer
 FRPUR = Fire-Resistant Polyurethane
 PUR = Polyurethane
 TPR = Thermoplastic Rubber
 FRPE = Fire-Resistant Polyethylene
 LDPE = Low-Density Polyethylene

6 Jacket Color
 Note: QMax standard jacket color is black.

N = Black
 B = Blue
 O = Orange