

PIPE FREEZE PROTECTION

A simple and easy way to protect pipe systems from freezing

Application

Pipe systems designed to transport crude oil, water, or other liquids are often exposed to cold weather. They may be directly exposed to outdoor conditions, or may be in an unheated area of a building. If the ambient conditions are cold enough, the contents of the pipes may thicken and resist flow (viscosity) or even worse they may freeze and expand causing pipes to burst. The damage, repair cost, and downtime can be extensive and costly.



Solutions

Self-Regulating heating cable is the perfect solution to protect pipes from freezing. The cable is semi-flexible and can be straight-traced or spiral-wrapped around pipe for long runs or long lengths on a single circuit. Self-regulating cable is specifically designed for freeze protection because the temperature never rises to a level that would damage pipes or a heated system. It will automatically adjust its heat output based upon ambient conditions and never exceed a specific rated temperature, most commonly 150°F (66°C). Higher temperature self-regulating heating cable can reach 250°F (121°C). Self-regulating cable is grounded for safe, worry-free operation. A protective outer shell resists moisture and chemicals for worry-free use in outdoor and washdown environments. Adding a TB250N temperature controller will allow for setting a specific temperature to reduce energy consumption.

Another solution is BriskHeat's XtremeFLEX® RKP silicone tapes with built-in thermostats. They are super flexible, plug-and-play, and suitable for outdoor use.

To improve thermal efficiency, the cable is insulated with BriskHeat's Insul-Lock® flexible closed-cell foam pipe insulation. The insulation is offered in a variety of diameters to fit any pipe and tube size up to 4 in (100 mm). It is suitable for outdoor use and has an R-value of 3.0 to keep the heat on the pipe even in extreme cold conditions. Insul-Lock® is easy to install and the peel-and-stick flap ensures the insulation remains installed for extended service periods.



TB250N



TB261P



RKP

Additional Uses

Self-regulating heating cable is used to protect large tanks, vessels, and even small household pipes from freezing conditions. Preterminated SpeedTrace self-regulating heating cable is available for fast, easy, and convenient plug-and-play installations. Available in up to 150 ft (45.7 m) lengths.

Industries

Agriculture	Gas Handling
Asphalt/Concrete	Heavy Industry/Mining
Chemical Processing/Extraction	HVAC
Consumer/Residential	Manufacturing
Energy/Power Generation	Pulp & Paper
Gas & Oil	Wastewater Treatment

Types of Users

Facilities Maintenance Personnel	Process Engineers Production Managers
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