

CHEMICAL AND MATERIAL PROCESS HEATING

A better way to heat pipes, tanks, and vessels

Application

Facilities that use or process chemicals, gasses, or even water must maintain them above 55°F (17°C) to prevent them from solidifying, freezing, or becoming too viscous to move. A few examples of these materials include varieties of diethylene (resins and polyurethanes), DMSO (solvents), paraffin's (petroleum product), #6 crude oil (for asphalt), and many more. Often these materials travel through unique cone, funnel, or bowl-shaped vessels and then through a series of pipes, tubes, hoses, pumps, valves, metering devices, level transmitters, and more. During a cold season, if not protected, these systems can fail to operate efficiently or even freeze causing significant damage and downtime.

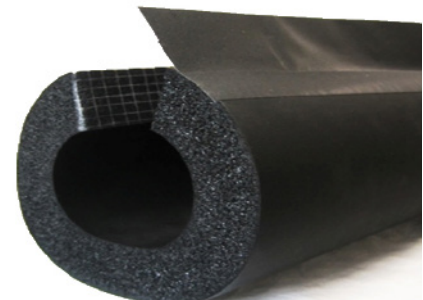
Often the complex nature of these systems, having many twists and turns, makes them difficult to install traditional heat trace cable to protect against the cold. Also, limited access or difficult to reach areas have their own unique challenges. Traditional semi-flexible self-limiting heat-trace cable is simply too rigid for many of these installations and does not provide adequate surface contact to be effective enough.

Solution

BriskHeat's XtremeFLEX® RKP silicone heating tapes are the perfect solution for these challenging applications. The RKP tapes have an ultra-thin profile with a super-flexible 0.125 in (6 mm) bend radius. No additional temperature controller is required because a built-in pre-set thermostat continuously monitors and controls the temperature output of the heater. The complete unit is fully encapsulated in silicone rubber to provide an extremely flexible, durable, and moisture resistant heater. The unique flexibility provides exceptional surface contact for maximum heat transfer and effectiveness around systems that have complex curves, bends, and contours. The heater is also pre-terminated with a power cord and electrical plug to provide quick and easy power connection. RKP silicone heating tapes are a true plug-and-play heater that is both easy to install and easy to maintain. This design makes the RKP an extremely versatile heater for a wide variety of indoor/outdoor installations.

It is always recommended to insulate any heating device to provide a safe and energy efficiency system. BriskHeat offers an Insul-Lock® DS foam pipe insulation that is perfect for use with RKP heating tapes.

Note: Standard pre-set thermostat control options include a choice of 70°F (21°C) or 120°F (49°C). Standard lengths are available up to 200 ft (61 m). Standard watt density is 6 W/ft (17 W/m). Custom configurations are available upon request.



Industries

Chemical/Processing/ Extractions	Gas & Oil Gas Handling
Energy/Power Generation	Manufacturing
Food & Beverage Processing	Water/Wastewater Treatment

Types of Users

Facility Maintenance	Design Engineer
Production Manager	Contractor
Process Engineer	Plant Manager