

## Style

Silica Carbide



Metal Alloy



Ceramics



## Overview

Protection tubes are designed to protect temperature sensors and other temperature devices from coming in direct contact with the process being measured. They can be constructed from either an alloy, ceramic or custom material. Protection tubes are generally manufactured from standard pipe and pipe fittings.

### Features:

- Ceramics and silicon carbides can be used in very high temperatures
- Alloy tubes can be a low cost option compared to machined bar stock thermowells
- Large bores can accommodate large outer diameter temperature sensors

### Application:

Protection tubes are commonly used in furnaces and other high temperature applications.

## Configuration Considerations

When designing a protection tube model to suit your application it is important to consider the following:

- Temperature sensor OD
- Temperature sensor or instrument connection
- Process connection
- Material
- Insertion (U) or immersion length
- Overall length
- Outer diameter
- Tip diameter
- Material and compatibility
- Maximum pressure and temperature
- Process conditions and effect on the tube material