

# Accessories

In many typical oil & gas applications that are classified as Class I hazardous locations, the Cata-Dyne™ heater must be installed in accordance with CSA and FM codes and regulations. As a result, the Cata-Dyne™ product line is supported with essential accessories required to ensure the safe and efficient operation of the units.



## Safety Shut-Off Valves

- The safety shut-off valve works in conjunction with the thermocouple to monitor the catalytic reaction ensuring it is well established before fuel supply remains on unattended
- Designed to automatically shut off the gas supply to the heater if the thermocouple senses that the catalyst pad has dropped below the activation temperature
- Two styles are available to suit your heating application needs

### ASV375 - Safety Shut-Off Valves

- 3/8" NPT connections and a maximum inlet pressure of 1/2 psi
- Designed with a pilot test port located at the base of the valve that can be used to measure operating pressure

Part No.	Description
Valve - ASV375	Safety Shut-Off Valve

### ASV375NT - Safety Shut-Off Valves

- The ASV375NT valve includes an additional tamper- resistant design discouraging mechanical attempts to fix the valve open and override it's safety feature
- 3/8" NPT connections and a maximum inlet pressure of 1/2 psi

Part No.	Description
Valve - ASV375NT	Tamper-Proof Safety Shut-Off Valve

### Mertik Combination Gas Controls/Valves

- Designed as a non-electric combination of the safety shut-off valve and a thermostat control
- Includes a tamper-resistant thermocouple connection that cannot be mechanically fixed open

Part No.	Description
AC-GV33	Combination Gas Control/Valve

- Certifications
  - Mertik - CSA approved and CE certified
  - ASV375 and ASV375NT - CSA approved

## Thermostatic Temperature Control Valve



- This valve is designed with a bulb and capillary assembly that automatically regulates fuel flow to a Cata-Dyne™ heater from 100% when heat is required to approximately 30% when the thermostat is satisfied
- This unit is used to control building temperature for spot and space heating applications
- The sensing bulb is filled with a temperature sensitive liquid. Changes in the temperature at the bulb expand and contract the liquid on temperature rise and fall causing the internal mechanism to modulate the flow of fuel
- Temperature control range of 0°C to 44°C (32°F to 110°F)
- Maximum inlet pressure of 1/2 psi
- Each unit has a connection size of 3/8" NPT female and a capillary length of 5 ft (1.5 m)
- No electrical power is required to operate this unit
- Controls are factory set to specific Btu and fuel ratings for specific heater types and sizes. Contact factory for the appropriate thermostat control valve.
- Certifications
  - CSA approved

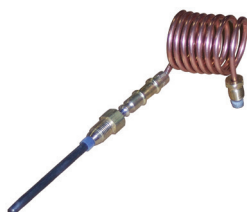
Part No.	Description
AC-TC	0°C to 44°C (32°F to 110°F)

## Manual Shut-Off Ball Valve



- The ball valve is installed upstream of all auxiliary heater controls to manually shut-off the fuel supply to the Cata-Dyne™ heater, see installation instructions for correct configuration for each fuel type
- A 3/8" NPT shut-off ball valve, with female NPT inlet and outlets in forged brass which increases the strength of the body
- Supplied with all manually controlled Cata-Dyne™ heaters
- The hard chrome-plated ball has Teflon seats and an anti-corrosion Dacromet treated handle
- Certifications
  - CSA approved and UL listed

## Thermocouples



- The Type K Thermocouple is a probe made from two dissimilar metals that monitors the temperature of both the electrical start-up element and the underside of the catalyst pad inside the Cata-Dyne™ heater
- Certifications
  - Thermocouples are CSA approved