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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve - ASV375</td>
<td>Safety Shut-Off Valve &amp; Thermostat</td>
</tr>
</tbody>
</table>

**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

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<tr>
<th>Part No.</th>
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</thead>
<tbody>
<tr>
<td>Valve - ASV375NT</td>
<td>Tamper-Proof Safety Shut-Off Valve</td>
</tr>
</tbody>
</table>

**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

<table>
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<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>AC-GV33</td>
<td>Combination Gas Control/Valve</td>
</tr>
</tbody>
</table>

**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

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<td>AC-TC</td>
<td>0°C to 44°C (32°F to 110°F)</td>
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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.