

"New Sentry TSV"



Has this ever happened to you? For some unknown reason, your cooling water pumps lose power. Cooling water is no longer going to your primary coolers, but plenty of hot sample continues to flow. In a control room, an operator works at one of the computer terminals. A pipe groans. The operator turns towards the sound just as the room begins to fill with 250°F steam. At the end of the sample line are your analyzers. The operator realizes what's happening and hurries to shut down the sample lines. This time he was successful in saving the analyzers and his burns were minor, but what about next time?

Sentry doesn't want there to be a next time. Loss of cooling water is only one of many situations that can put personnel and equipment in danger. High cooling water temperature, insufficient cooling water flow, ruptured sample cooler coils, and fouled or plugged sample coolers are other elements with the potential to cause high temperature. That is why we developed the Sentry Thermal Shut Off Valve (TSV).

The Sentry TSV is a self contained device that can shut down sample flow in less than five seconds. The valve's sensor/actuator is directly exposed to the sample which provides immediate reaction. The valve needs no outside source of electricity, air, or hydraulics, and the standard tripping temperature is 120°F (49°C), which is set at the factory. Other temperature settings are available upon customer request.

When sample temperature reaches the set point, the valve closes and stops the sample flow in less than five seconds. A red indicator gives visual confirmation when a valve has tripped, however, if a remote alarm is preferred, an optional position indicating dry contact can be attached. The TSV must be manually reset after a trip giving personnel time and assurance that sample flow will not resume undetected.

The optimum location for the TSV in the sample line is downstream of the pressure reducing valve and upstream of the secondary cooler. This location will provide the maximum protection for equipment and personnel.

The situation described above never needs to happen again. Sentry can shield your equipment and personnel from high temperature problems with the Sentry TSV.

For more information, e-mail Sentry at sales@sentry-equip.com.

***Every Employee an Owner,
Every Customer a Commitment***

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