

SENTRY W270 HI-TEMP SHUT-OFF VALVE

Thermal Protection Valves



SAMPLE CONDITIONING

The Sentry® high-temperature shut-off valve is designed for use with sampling systems to shut off flow when the sample temperature becomes too hot.

The valve is suitable for grab sample or instrument applications that could experience a loss of coolant or surges in sample flow rates, which would cause the sample temperature to rise suddenly.

MODELS

W270

BENEFITS

The valve can be installed directly downstream of the primary cooler to protect more vulnerable components further down the line. This is advantageous for the protection of personnel and instruments that could otherwise be harmed by high temperature samples.

The valve responds only to temperature. Under normal operation the valve is fully open. If the sample temperature reaches 115°F, the thermal element within the valve begins to close the inlet orifice. The inlet orifice is fully closed when the sample reaches 125°F. The valve automatically opens as the element cools.

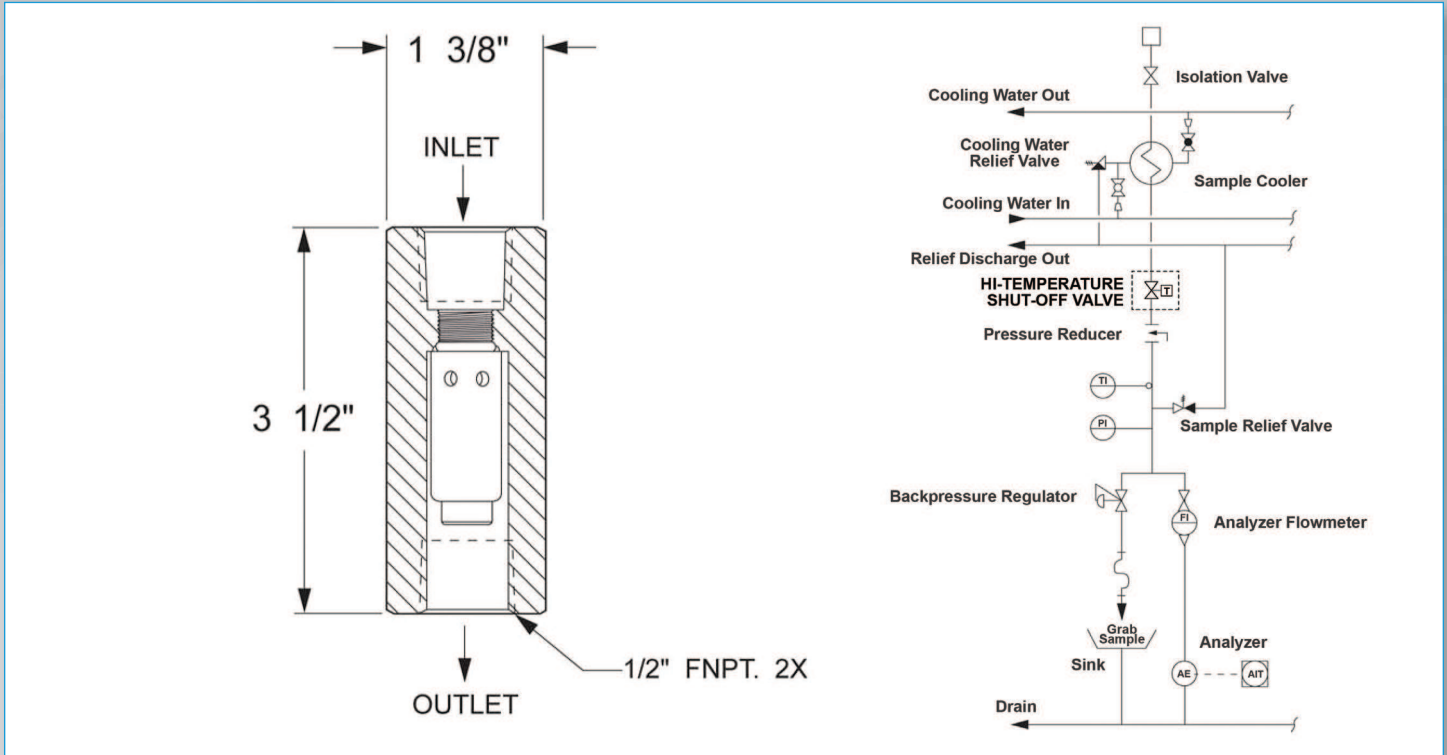
FEATURES

- The valve is automatic, with no reset or operator involvement required
- Features corrosion-resistant stainless steel and EPDM materials to reduce contamination of sample stream
- The valve is compact, and the low mass means fast response – the overall size is 1-3/8-inch diameter by 3-1/2-inch length
- Reliable shut-off with a ram-type plug design for a tight seal upon shut-off



Sample. Monitor. Measure.





SPECIFICATIONS

wetted materials	stainless steel and epdm
maximum pressure	3000 psi (207 bar)
maximum temperature	250°F (121°C)
sample connections	1/2 in. FNPT
flow coefficient	Cv = 0.075
part number	WD172117

NOTE: Other wetted materials and temperature setpoints available.

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