



THERM-OMEGA-TECH

ISO 9001 CERTIFIED

MODEL HST

HIGH SAMPLE TEMPERATURE VALVE

**FREEZE PROBLEMS?
CALL THE GURU 1-877-FRZ-VALVE**

DESIGN FEATURES

- ◆ Automatic: resets open when sample cools; no operator involvement required
- ◆ Self-Operating: no outside power or signal required
- ◆ Reliable shutoff: ram-type plug design provides tight seal upon shutoff
- ◆ Rugged, compact design
- ◆ Easy installation
- ◆ Fast response
- ◆ Operating temperatures unaffected by variable inlet pressures
- ◆ Wide choice of setpoints available
- ◆ Corrosion resistant: all stainless steel construction
- ◆ Operates in any orientation
- ◆ Maintenance free

APPLICATIONS

Excessively hot samples can cause damage to expensive and sensitive hardware and electronics. For process analyzers and similar instrumentation, it is important to assure that the process samples fluids are always below the maximum allowable temperature for such instruments. Sample coolers are commonly used to reduce sample temperatures to the acceptable limits. In the event of a loss of cooling fluid to the sample cooler, or if the desired sample temperature is exceeded for any reason, the **HST** valve will close to prevent equipment damage.

ADVANTAGES

The standard **HST** valve body is rated for 3000 psig @ 600°F. The **HST**'s internal valve mechanism (valve engine) is rated up to 3000 psig and continuous operating temperature 150°F above the specified shutoff temperature. **HST** valves are covered with our standard 36 month prorated warranty.



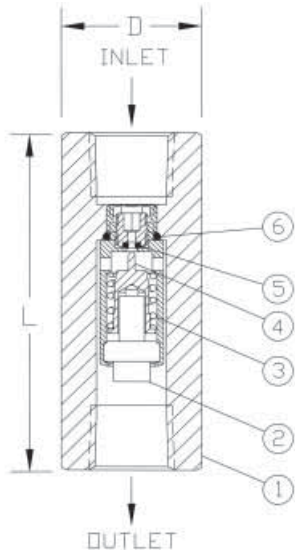
OPERATION

The **HST** (High Sample Temperature) safety shutoff valve is used to sense the sample temperature after the sample cooler. The sample passes through this normally open valve whenever the sample temperature is below the valve setpoint. If the sample temperature exceeds the valve setpoint, the **HST** closes to protect expensive and delicate analyzers and other instruments from overtemperature damage. When the **HST** cools about 10°F below the setpoint, it will automatically reset open again. Low coolant flow or total loss of cooling water or unusually high sample temperatures are typical reasons why the **HST** self-operating protective device should be considered.

MODEL HST

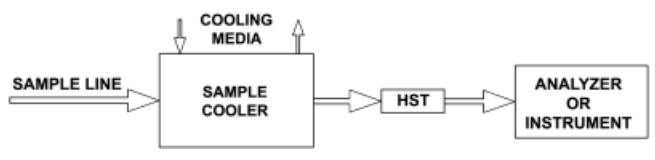
IN-LINE HIGH SAMPLE TEMPERATURE VALVE

PARTS AND MATERIALS



ITEM	DESCRIPTION	MATERIAL
1	VALVE BODY	300 SERIES STAINLESS
2	THERMAL ACTUATOR	300 SERIES STAINLESS
3	OPERATING SPRING	300 SERIES STAINLESS
4	RAM-TYPE PLUG	300 SERIES STAINLESS
5	SEAT SEAL	PTFE
6	ENGINE SEAL	EPDM/VITON (-012) (See note 2)

TYPICAL INSTALLATION



STANDARD SPECIFICATIONS

Size NPTF	D		L		Weight		Cv	Maximum Pressure	Maximum Temperature
	in	mm	in	mm	Lb	Kg			
1/2"	1.38	35	3.4	86	1.14	0.52	0.075	3000 PSIG (207 BAR)	Note 2

TO ORDER SPECIFY:

Part Number		
EPDM Seals	Viton Seals	Description
254-000000-XXX	254-001000-XXX	1/2 HST Valve

NOTES

1. Standard temperatures "XXX" available:
100°F, 105°F, 115°F, 125°F, 130°F, 140°F, 170°F, 185°F.
2. Seal material compatibility:
 - a. EPDM - air (to 300°F), water, steam, ketones and synthetic hydraulic oils.
 - b. Viton - air (to 400°F), fuel, oil, gas and petroleum based hydraulic oils.
 - c. Optional seal materials available, consult factory.

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice



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