



THEM-OMEGA-TECH

ISO 9001 CERTIFIED

MODEL ECONO/HAT **IN-LINE TEMPERATURE CONTROL**

FREEZE PROBLEMS?
CALL THE GURU 1-877-FRZ-VALV

DESIGN FEATURES

- ◆ Compact, low mass - Fast response
- ◆ Corrosion resistant - Long service life
- ◆ All Brass body, stainless steel spring and plug
- ◆ Ram-type plug for tight reliable shutoff
- ◆ Eliminates live steam losses
- ◆ Narrow temperature band
- ◆ Downstream actuator for greater sensitivity
- ◆ Operating temperatures unaffected by pressure
- ◆ Wide choice of set points
- ◆ 100% factory tested



ADVANTAGES

These valves save space and are easy and inexpensive to install. The unique ram-type plug & seat provide reliable, tight shut off longer than any other design available. **ECONO/HAT** valves are covered with our standard 18 month warranty & service policy to further reduce maintenance cost. Since **ECONO/HAT** valves discharge condensate well below steam temperature, live steam losses are eliminated. For heating of temperature sensitive instruments or process fluids, the reduced temperature available for tracing simplifies operations and eliminates overheating problems. For other heat transfer fluids, **ECONO/HAT** valves maintain a constant discharge temperature, thus providing benefits of accurate process temperature control and improved efficiency.

OPERATION

The **ECONO/HAT** valve responds only to temperature. After condensate forms and cools to near the setpoint, the **ECONO/HAT** valve modulates the flow to maintain a constant condensate discharge temperature. **ECONO/HAT** valves are wide open at start-up for rapid venting and initial heat-up. **ECONO/HAT** valves are self-draining after shutdown, to eliminate freeze damage.

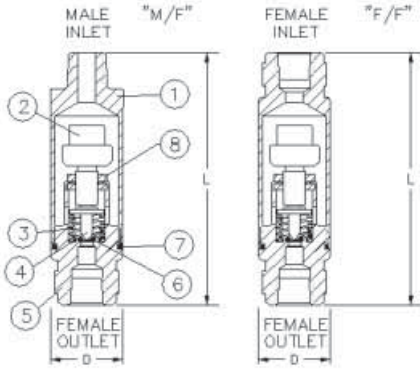
APPLICATIONS

ECONO/HAT valves are ideal for replacing conventional steam traps on winterization tracing, instrument tracing, condensate return system freeze protection, tracing for processes under 150°F, and other applications requiring in-line flow control based on temperature.

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IN-LINE TEMPERATURE CONTROL

PARTS AND MATERIALS

		ITEM	DESCRIPTION	MATERIAL
		1	BODY	BRASS
		2	THERMAL ACTUATOR	BRASS
		3	OPERATING SPRING	300 SERIES STAINLESS
		4	RAM-TYPE PLUG	300 SERIES STAINLESS
		5	SEAT FITTING	BRASS
		6	SEAT SEAL	PTFE
		7	BODY SEAL	BUNA-N
		8	CALIBRATION LOCKNUT	300 SERIES STAINLESS

SPECIFICATIONS

Size (NPTF)	D		L		Weight		Cv	Maximum Pressure	Maximum Temperature
	in	mm	in	mm	Lb	Kg			
1/4"	1.00	25	3.5	89	0.35	0.16	0.5	300 PSIG (20.7 BAR)	250°F (121°C)

TO ORDER, SPECIFY:

Part Number	Description
232 - 000000 - XXX	1/4" ECONO-HAT- M/ F
232 - 001000 - XXX	1/4" ECONO-HAT- F/ F

NOTES:

- Standard open temperatures "XXX" available:
040°F, 050°F, 055°F, 060°F, 065°F, 075°F, 085°F, 090°F, 095°F, 100°F, 105°F, 110°F, 125°F, 130°F, 140°F,
150°F, 155°F, 160°F, 170°F, 180°F, 190°F and 200°F.

Note: Closing temperature is typically 10°F above opening temperature.

- A #20 mesh strainer is recommended to prevent clogging.

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



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