



THEM-OMEGA-TECH

ISO 9001 CERTIFIED

MODEL US/A

AMBIENT TEMPERATURE CONTROL

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

DESIGN FEATURES

- ◆ Compact, low mass - Fast response
- ◆ Corrosion resistant - Long service life
- ◆ All stainless steel construction
- ◆ Ram-type plug for tight reliable shutoff
- ◆ Narrow temperature band
- ◆ Operating temperatures unaffected by pressure
- ◆ Wide choice of set points



ADVANTAGES

At any chosen set point from 35°F (-1°C) to 140°F (60°C), these valves can economically automate a system in response to ambient temperature. Reduce waste, lower maintenance, reduce cost and save space. **US/A** valves are covered with our standard 36 month prorated warranty.

APPLICATIONS

There are literally hundreds of uses for these compact, self-contained, automatic valves. Ambient sensing valves can be used to turn on steam, air, gas or liquids compatible with teflon and stainless steel in response to temperature change. Applications include automation of steam trace lines, control of pneumatically operated pumps for injection of anti-freeze liquids, ambient sensing water line freeze protection, etc. These valves also offer maximum economy as unit heater controls. They are also ideal for controlling steam heated drum heater enclosures and plate or panel coil tank heaters.

OPERATION

At the designated set point, a thermostatic element located at one end of the valve, will open or close completely over a 10°F (5.5°C) differential (i.e. 35-45°F, 90-100°F, etc.) and control the flow of steam, gas, or fluid through the valve based on ambient temperature. The model **US/A 270k** typically will handle up to 400' of 1/2" tracer while providing up to approximately 270,000 BTU/hr. at 100 PSIG steam pressure.

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PARTS AND MATERIALS

ITEM	DESCRIPTION	MATERIAL
1	VALVE BODY	CF8M (316 SS)
2	YOKE	CF8M (316 SS)
3	CALIBRATION LOCKNUT	300 SERIES STAINLESS
4	ISOLATION EXTENSION (note 2)	ACETAL COPOLYMER or SS
5	THERMAL ACTUATOR	300 SERIES STAINLESS

TYPICAL INSTALLATION

SPECIFICATIONS:

Size (NPTF)	L		A		C		Weight		Cv	Maximum Pressure PSIG (BAR)	Maximum Temperature (note 2)	
	in	mm	in	mm	in	mm	Lb	Kg			Valve End	Sensing End
1/2"	10.7	287	1.7	43	1.5	38	1.5	0.68	1.3	200 (13.8)	388°F (198°C)	250°F (121°C)
3/4"	11.5	292	1.8	45.7	1.8	45.7	1.7	0.77	2.0			

TO ORDER SPECIFY:

Part Number	Description
614-000000-XXX	1/2US/A
614-000100-XXX	1/2US/A (stainless steel extension)
615-000000-XXX	3/4US/A
615-000100-XXX	3/4US/A (stainless steel extension)

NOTES:

1. Standard open set point temperatures "XXX" available: 035°F, 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 for Direct Acting valves.
2. Acetal Isolation Extension to be used for applications up to 150°F maximum temperature. For applications above 150°F, stainless steel will be used.
3. A #20 mesh strainer is recommended for use with all port sizes.

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



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