

US/A & US/AR

AMBIENT TEMPERATURE CONTROL VALVE

BENEFITS

- Simplifies winterization procedures
- Self-operating, no power or signal required
- Reduces winterization maintenance and labor
- Efficiently automates steam tracing
- Eliminates wasted steam
- Quick and easy installation

DESIGN FEATURES

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

APPLICATIONS

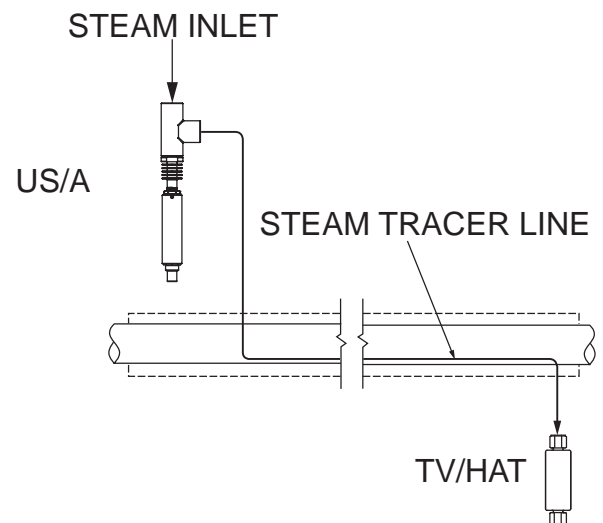
There are many uses for these compact, self-contained, automatic valves. Ambient sensing valves can be used to turn on steam, air, gas or liquids compatible with teflon and stainless steel in response to temperature change. Applications include automation of steam trace lines, control of pneumatically operated pumps for injection of anti-freeze liquids, ambient sensing water line freeze protection, etc. 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.



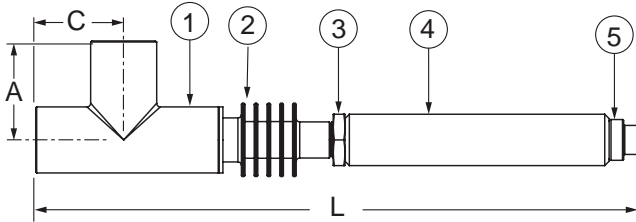
SAMPLE APPLICATIONS



US/A AND US/AR

AMBIENT TEMPERATURE VALVE

PARTS & MATERIALS



| ITEM | DESCRIPTION | MATERIAL |
|------|---------------------|---------------|
| 1 | VALVE BODY | CF8M (316 SS) |
| 2 | YOKE | 300 Series SS |
| 3 | CALIBRATION LOCKNUT | 300 Series SS |
| 4 | ISOLATION EXTENSION | 300 Series SS |
| 5 | THERMAL ACTUATOR | 300 Series SS |

DIMENSIONS & CAPACITIES

| SIZE (NPT) | L | | A | | C | | Weight | | C _v | Maximum Operating Pressure | Maximum Temperature | |
|---------------|------|-----|-----|------|-----|------|--------|-----|----------------|-------------------------------|---------------------|------------------|
| | 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 | 0.7 | 1.3 | 200 PSIG (13.8 BAR) | 388°F (198°C) | 250°F (121°C) |
| 3/4" | 11.5 | 292 | 1.8 | 45.7 | 1.8 | 45.7 | 1.7 | 0.8 | 2.0 | | | |

ORDERING

| Part Number ¹ | Description |
|--------------------------|-------------|
| 614 - 000100 - XXX | 1/2" US/A |
| 615 - 000100 - XXX | 3/4" US/A |
| 624 - 000100 - XXX | 1/2" US/AR |
| 625 - 000100 - XXX | 3/4" US/AR |

NOTES

- Full open temperatures "XXX" available:
 - A Series:** 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
 - AR Series:** 040°F, 045°F, 050°F, 060°F, 070°F, 075°F, 085°F, 095°F, 100°F, 105°F, 110°F, 115°F, 120°F, 125°F, 130°F, 140°F, 150°F, 160°F, 170°F, 175°F, 180°F, 190°F, 200°F, and 210°F.
 - Note:** Closing temperature is typically 10°F above opening temperature for Direct Acting valves and 10°F below opening temperature for Reverse Acting valves.
- A #20 mesh strainer is recommended.
- Warranty information disclosed at www.thermomegatech.com/terms-conditions/



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USA
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