ThermOmegaTech®

TV/SC-A

AMBIENT TEMPERATURE CONTROL VALVE

BENEFITS

- Economically controls fluid flow
- Reduces operating and labor costs associated with winterization procedures
- Self-operating, no power or signal required
- Eliminates steam waste in tracing
- Standard tube connections for quick and easy installation
- Operating temperatures unaffected by pressure variations

DESIGN FEATURES

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

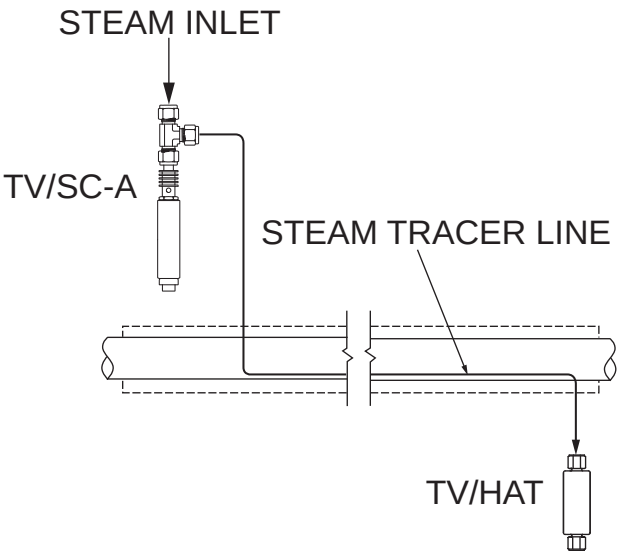
APPLICATIONS

There are hundreds of applications for these compact, self-contained, automatic control valves. Ambient sensing valves can be used to turn on steam, air, gas or liquids compatible with Teflon® and stainless steel, in response to ambient temperature change. Applications include automation of steam trace lines, operation of pneumatically operated pumps for injection of antifreeze liquids and instrument enclosure control.

OPERATION

A thermostatic element located at one end of the **TV/SC-A** (thermally isolated from the body of the valve), will open or close within a 10°F (5.6°C) differential (e.g. 35°-45°F, etc.) and control the flow of steam, gas, or fluid through the valve based on ambient temperature. The **TV/SC-A** opens on falling temperature. The **TV/SC-A** may also be used to control instrument enclosure temperatures (see TV/SC-I and ITCH product sheets).

TYPICAL INSTALLATION



TV/SC-A

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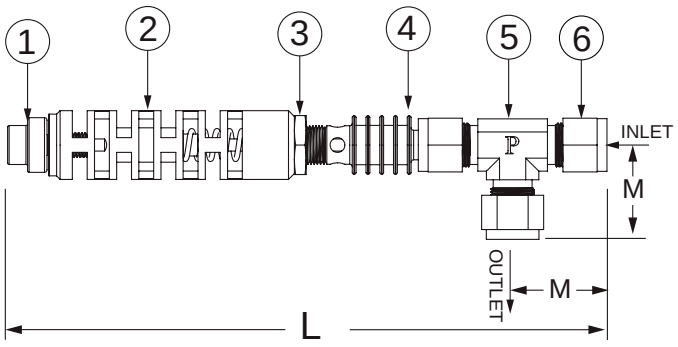
PARTS & MATERIALS



ITEM	DESCRIPTION	MATERIAL
1	THERMAL ACTUATOR	300 Series SS
2	ISOLATION EXTENSION	300 Series SS
3	CALIBRATION LOCKNUT	300 Series SS
4	YOKE	300 Series SS
5	TEE BODY	300 Series SS
6	TUBING COMPRESSION NUT	300 Series SS

DIMENSIONS & CAPACITIES

TUB O.D. Size	L		M		Weight		C_V	Maximum Operating Pressure	Maximum Temperature	
	in	mm	in	mm	Lb	Kg			Valve End	Sensing End
3/8″	7.4	188	1.2	30	0.5	0.2	0.5	200 PSIG (13.8 BAR)	388°F (198°C)	150°F (66°C) over set-point limit 300°F(149°F)
1/2″	7.9	201	1.4	36	0.8	0.4	0.9			

ORDERING

Part Number[1,2]	Description
713 - 0X1000 - XXX	3/8″ TV/SC-A
714 - 0X1000 - XXX	1/2″ TV/SC-A

NOTES

1. Full open 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, 120°F, 125°F, 130°F, 140°F, 150°F, 155°F, 160°F, 170°F, 180°F, 190°F, and 200°F.
   a. **Note: Closing temperature is typically 10°F above opening temperature.**
2. O = Parker fittings are standard. 1 = Swagelok fittings are available.
3. A #20 mesh strainer is recommended.
4. Warranty information disclosed at www.thermomegatech.com/terms-conditions/

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