

TV/SC-A

AMBIENT TEMPERATURE CONTROL VALVE



BENEFITS

- Economically controls fluid flow
- Reduces operating and labor costs associated with winterization procedures
- No outside power source required
- Eliminates steam waste in tracing
- Standard tube connections for quick and easy installation

DESIGN FEATURES

- Compact, low mass - Fast response
- Corrosion resistant - Long service life
- Exclusive **Thermoloid®** sensor/controller
- 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

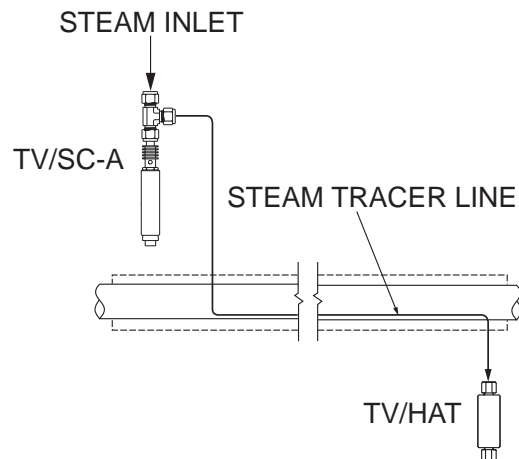
There are literally hundreds of applications for these compact, self-contained, automatic control valves. Ambient sensing valves can be used to turn on steam, air, gas or liquids compatible with Teflon® and stainless steel, in response to ambient temperature change. Applications include automation of 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 fact sheets).



SAMPLE APPLICATION

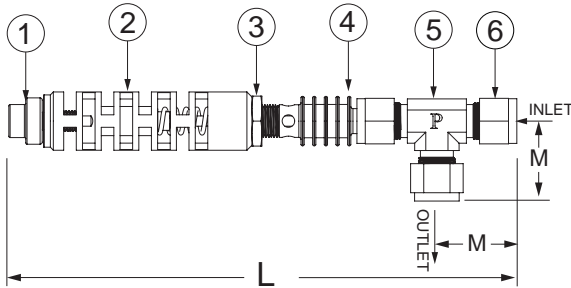


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PARTS & MATERIALS



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	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 ²	
	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)	390°F (199°C)	150°F (65.6°C) over setpoint
1/2"	7.9	201	1.4	36	0.8	0.4	0.9			

ORDERING

Part Number ¹	Description
713 - 001000 - XXX	3/8" TV/SC-A
714 - 001000 - XXX	1/2" TV/SC-A

NOTES

- 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 below opening temperature.**
- Parker fittings are standard. Swagelok fittings are available.
- A #20 mesh strainer is recommended.
- Warranty information disclosed at www.thermomegates.com/terms-conditions/



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TVSCA
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Because of continuous improvements, Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice