



THERM-OMEGA-TECH

ISO 9001 CERTIFIED

3/4" IC/SP

INTERCHANGEABLE CARTRIDGE/SCALD PROTECTION

**FREEZE PROBLEMS?
CALL THERM OMEGA TECH
TOLL-FREE 1-877-379-8258**

DESIGN FEATURES

- ◆ IC/SP-105, -100 & -95 meets OSHA temperature guidelines
- ◆ Easily maintained
- ◆ Corrosion resistant - long service life
- ◆ Most clog-resistant design available
- ◆ Most narrow temperature band available
- ◆ Sensitive to fluid temperature only
- ◆ Unaffected by pressure variations
- ◆ Easy installation with pipe wrench



ADVANTAGES

The 3/4" **IC/SP** valve continually senses water temperature and automatically bleeds excessively hot water from safety shower/eyewash systems. Protection is provided with minimal water consumption. The unique plug and seat design offers the most reliable, tight shutoff available. The easily replaceable precalibrated cartridge minimizes downtime during maintenance. **IC/SP** valves are covered by an 18 month prorated warranty.

APPLICATIONS

Solar radiation or overheating caused by steam or electric tracing can cause extremely high temperatures at the point of use, resulting in a safety hazard for plant personnel. When installed in safety showers, eyewash stations, and other locations exposed to the same source of overheating as the system, the **IC/SP** will be heated just as the pipe system. The valve will open to establish flow until the overtemperature water is eliminated and it will then modulate closed.

OPERATION

Under normal operating conditions, water passes through a virtually unobstructed 1" or larger NPT tee, allowing this valve to be used in higher flow lines. The 3/4" **IC/SP** will screw into any 3/4" NPT threaded opening with adequate internal clearance (see drawing at "Parts and Materials"). When the water temperature rises above safe limits, and a danger of scalding exists, the thermal actuator located in the fluid stream modulates the valve open. When the water temperature returns to the safe range, the valve then modulates closed, minimizing water loss. Due to the actuator's placement in the fluid stream this valve is unaffected by ambient air temperature. The **IC/SP-105** is open at 105°F (41°C) and will remain open until water temperature is 95°F (35°C) or below.

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PARTS AND MATERIALS

	ITEM	DESCRIPTION	MATERIAL
	1	CARTRIDGE BODY	BRASS OR STAINLESS
	2	SEAT SEAL	PTFE
	3	SPACER	BRASS OR STAINLESS
	4	OPERATING SPRING	300 SERIES STAINLESS
	5	RAM-TYPE PLUG	300 SERIES STAINLESS
	6	CALIBRATION LOCKNUT	300 SERIES STAINLESS
	7	ACTUATOR	BRASS OR STAINLESS
	8	ACTUATOR BUSHING	BRASS OR STAINLESS

SPECIFICATIONS

Connection	A		B		C		Z (Drain)	C _v	Weight		Maximum Pressure	Maximum Temperature
	in	mm	in	mm	in	mm			Lb	Kg		
3/4" NPT	2.31	58.7	1.33	33.8	1.38	35.1	3/4 NPTF	1.3	0.5	0.23	100 PSIG (6.9 BAR)	200°F (93°C)

TO ORDER SPECIFY:

Part Number	Description
195-000000-XXX	3/4" IC/SP-105 Cartridge
195-220000-XXX	3/4" IC/SP-105 Cartridge SS

NOTES:

- Standard open temperature, "XXX", is 105°F. Optional open temperatures, "XXX": 095°F, 100°F, 110°F and 115°F.
Note: Closing temperature is typically 10°F below opening temperature.
- A #20 mesh strainer is recommended.

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



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