

1/2" IC/FP

INTERCHANGEABLE CARTRIDGE FREEZE PROTECTION VALVE

BENEFITS

- Protects piping and equipment from freeze damage
- Can be used as primary protection or failsafe backup
- Long service life
- Self operating
- Fast response
- No outside power required
- Discharges minimum amount of water required

DESIGN FEATURES

- Brass or stainless steel body, fittings, and plugs
- Corrosion resistant
- Exclusive **Thermoloid**® sensor/controller
- Narrow temperature band
- Compact and low mass
- Ram-type plug for reliable shutoff
- Wrench flats for easy installation

APPLICATIONS

Typically freeze protection is effected by cracking open manual bleed valves. This method is at best risky. Human error or plugging of partially cracked valves annually accounts for large amounts of freeze damage to expensive equipment. The 1/2" IC/FP (Freeze Protection) valves are ideal for the protection of piping, safety showers, solar collectors & piping, condensate systems, fire lines, spray nozzles, or as backup protection on traced systems, where an unrestricted flow is required under normal operating conditions. Its sensitivity to water temperature makes this valve ideal for applications where water conservation or wastewater disposal are a prime concern.

OPERATION

The 1/2" IC/FP will screw into any 1/2" NPT threaded opening with adequate internal clearance (see drawing at "Parts and Materials"). When the water temperature approaches freezing, and freeze damage is imminent, the thermal actuator modulates the valve open. When the makeup water temperature returns to the safe range, the valve then modulates closed, minimizing water loss. Due to the actuator's placement in the water stream, this valve is unaffected by ambient air temperature, and opens only when the water is in danger of freezing, being open at 35°F (1.7°C), and closed at 40°F (4.4°C)

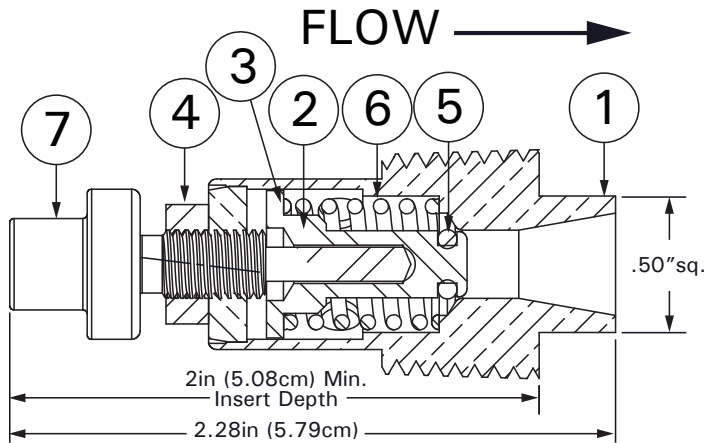


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PARTS & MATERIALS



ITEM	DESCRIPTION	MATERIAL
1	VALVE BODY	Brass or 300 Series S/S
2	PLUG	300 Series S/S
3	RETAINING PLATE	Brass or 300 Series S/S
4	LOCKNUT	300 Series S/S
5	O-RING	EPDM
6	OPERATING SPRING	300 Series S/S
7	ACTUATOR	Brass or 300 Series S/S

DIMENSIONS & CAPACITIES

Weight		C _v	Maximum Operating Pressure	Maximum Temperature
Lb	Kg			
0.14	0.06	0.6	150 PSIG (10.3 BAR)	300°F (149°C)

ORDERING

Part Number	Description
180 - 000000 - 035	1/2" IC/FP-35 Cartridge
180 - 000000 - 039	1/2" IC/FP-39 Cartridge
180 - 110000 - 035	1/2" IC/FP-35 S/S Cartridge
180 - 110000 - 039	1/2" IC/FP-39 S/S Cartridge

NOTES

1. Open/Close temperatures: 35°F/40°F, 39°F/45°F (others available, consult our engineers).
2. a #20 mesh strainer is recommended.



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Because of continuous improvements, ThermOmegaTech, Inc. reserves the right to change the design and specifications without notice