

## HAT/FP

### 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**

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

### **APPLICATIONS**

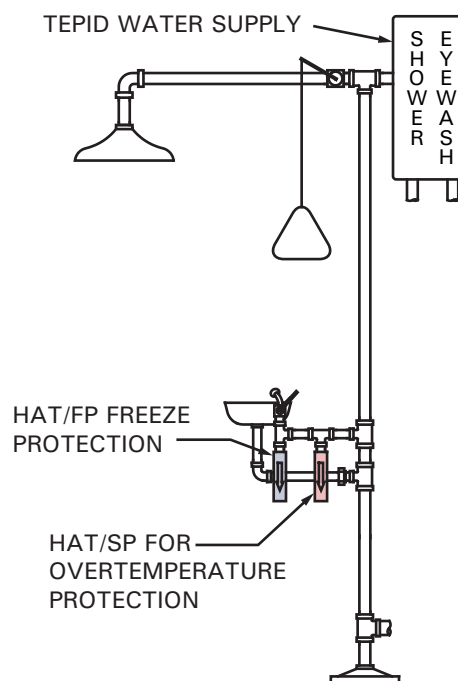
Typically freeze protection is effected by cracking open manual bleed valves. This method is at best risky. Human error or plugging of partially cracked valves annually accounts for large amounts of freeze damage to expensive equipment. **HAT/FP** valves are ideal for protection of piping, valves, fittings, pumps, condensate systems, safety showers, fire lines, spray nozzles, freeze sensitive equipment, or as backup protection on traced systems/equipment.

### **OPERATION**

The HAT/FP-35 will initiate flow when the thermostatic actuator senses 35°F (1.6°C) and will remain open as long as the discharge water temperature is below 40°F (4.4°C).

In standard flow, the actuator will sense ambient temperature to initiate flow and then respond to water temperature; in reverse flow, the actuator will sense water temperature.

### **SAMPLE APPLICATION**

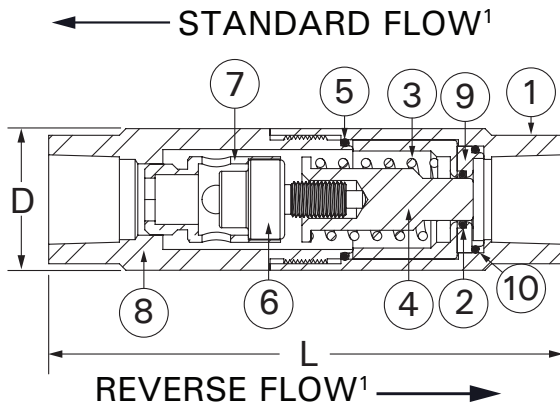


# HAT/FP

## FREEZE PROTECTION VALVE



### PARTS & MATERIALS



ITEM	DESCRIPTION	MATERIAL
1	BODY - INLET HALF	300 Series S/S
2	SEAT SEAL	FEP Encapsulated Viton
3	OPERATING SPRING	300 Series S/S
4	RAM-TYPE PLUG	300 Series S/S
5	BODY SEAL	EPDM
6	THERMAL ACTUATOR	Brass or S/S
7	ACTUATOR CARRIER	Brass or S/S
8	BODY - OUTLET HALF	300 Series S/S
9	SEAT INSERT	300 Series S/S
10	SEAT INSERT SEAL	EPDM

### DIMENSIONS & CAPACITIES

SIZE (NPT)	D		L		Weight		Port Size	C <sub>v</sub>	Maximum Operating Pressure <sup>1&amp;2</sup>	Maximum Temperature
	in	mm	in	mm	Lb	Kg				
1/2"	1.25	32	4.5	114	0.9	0.41	B	0.8	300 PSIG (20.7 BAR)	300°F (149°C)
1/2"	1.25	32	4.5	114	0.9	0.41	C	1.3		
3/4"	1.5	38	5.5	140	1.4	0.64	D	2		

### ORDERING

Part Number	Description
114 - 212100 - 035	½" HAT/FP-35-B-SS-E
114 - 812100 - 035	½" HAT/FP-35-B-SS-RF-E <sup>1</sup>
114 - 302100 - 035	½" HAT/FP-35-C-E
114 - 702100 - 035	½" HAT/FP-35-C-RF-E <sup>2</sup>
114 - 312100 - 035	½" HAT/FP-35-C-SS-E
114 - 712100 - 035	½" HAT/FP-35-C-SS-RF-E <sup>2</sup>
115 - 502100 - 035	¾" HAT/FP-35-D-E
115 - 512100 - 035	¾" HAT/FP-35-D-SS-E
115 - 712100 - 035	¾" HAT/FP-35-D-SS-RF-E <sup>2</sup>

### NOTES

- Reverse flow option for B port is rated for 200 PSIG (13.8 BAR).
- Reverse flow option for C & D ports are rated for 150 PSIG (10.3 BAR).
- 316 S/S and other materials are available. Consult our engineers for more information.
- Open/Close temperatures: 35°F/40°F.
- All HAT/FP valves are factory tested and covered by a 36 month warranty.
- A #20 mesh strainer is recommended for use with all sizes.



ThermOmegaTech, Inc.  
353 Ivyland Road  
Warminster, PA 18974

1-877-379-8258  
www.ThermOmegaTech.com

