



INDUSTRIAL PRODUCTS DIVISION

**GENERAL DESCRIPTION**

The ZT-100 Series self-actuated Temperature Shutoff System offers an improved means of monitoring heated liquid temperatures and initiating preventative action in the event of a temperature overshoot or accidental damage to the system. It is installed in connection with controlled water heaters of the storage or instantaneous type (see "Instantrrol" Heater Package), where an extra degree of precaution against the discharge of overheated liquid is important.

The ZT-100 system consists of a single-seated diaphragm control valve, a temperature sensitive pilot with a manual relatch feature, and a combination pressure regulators trainer-relief valve. The system operates on the cold water supply pressure and requires no electrical or pneumatic supplies. Loss of cold water supply closes the system down. Piping is completed at installation as illustrated in Fig. 1A or B.

**SPECIFICATIONS**

**PILOT VALVE:**

- Type: ..... Three-way
- Ends: ..... 1/2" NPT
- Port: ..... 3/16"
- Medium: ..... Cold water
- Thermal System: ..... Fail-Safe
- Capillary: ..... 6 ft. standard, copper
- Bulb: ..... 12B (bushed) 1/2" x 3-7/8" copper
- Well: .... Available on order in S. S. 1/2" NPT mounting thread, 4-7/32" insertion.

**Range Selection:**

- 100 - 128°F
- 125 - 140°F
- 135 - 165°F
- 160 - 190°F
- 180 - 210°F

Setpoint: ..... Adjustable

**REGULATOR/STRAINER RELIEF VALVE**

**REGULATOR:**

- Ends: ..... 1/2" NPT
- Range: ..... 10-25 psig  
(factory set 12 psig)
- Max. Pressure: ..... 125 psig

**RELIEF VALVE:**

- Ends: ..... 1/2" NPT
- Pressure Setting: ..... 30 psig

**High Temperature Shutdown System  
Model ZT-100**



**83418-A1**



**VC231A-MA**



**I-530-M1**

**HOW TO ORDER**

Specify:

1. Control valve size.
2. Pilot range and setpoint.
3. Medium.
4. Supply pressure and pressure drop through control valve.

**DIAPHRAGM SHUTOFF VALVES (VC231A-MA)**

LINE SIZE	VALVE SIZE	MATERIAL		MAX. SUPPLY		MAX. PRESSURE DROP
		BODY	TRIM	WATER	STEAM	
3/4"	3/4"	BZ	SS	250	250	250
1"	1"	BZ	SS	250	250	250
1-1/4"	1-1/4"	BZ	SS	250	250	250
1-1/2"	1-1/2"	BZ	SS	250	250	250
2"	2"	IRON	SS	125	125	125

