

# PILOTS

## "T" Pilot

### Temperature Pilot for HD & D Regulating Valves

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## Temperature Pilot

- Temperature Control Range: 60° -260°F



### TYPICAL APPLICATIONS

The "T" Temperature Pilot used with either the HD or D regulator control temperature in various processes and systems. Some examples are:

- Oil heaters
- Process heaters
- Dryers
- Ovens
- Vats
- Jacketed Kettles

### FEATURES

- Temperature adjustment is made simple and easy by rotating an adjustment knob to the desired temperature setting
- Thermostatic sensing bulb comes with an 8-ft. or 15-ft. length capillary
- Armored capillary to resist damage
- Overheat protection bellows is incorporated into sensing bulb. 200°F overheat protection up to 350°F
- For steam supply pressure 12 PSIG or under, our low pressure temperature pilot must be used
- Full-port strainer and blow-down valve on pilot adapter to eliminate failure caused by contaminated steam systems

### OPTIONS

- Temperature Pilot can be combined with Pressure and Solenoid pilots
- Additional lengths can be ordered in 5-ft. increments; up to 25-ft. maximum length
- Wells are available in 316 stainless steel or brass
- Longer wells can be supplied
- 316 Stainless Steel Sensing Bulb
- Other options available; consult Factory

**Note:** Watson McDaniel's Low Pressure Temperature Pilot must be used for steam supply pressure less than 12 PSIG

### TEMPERATURE-ADJUSTING RANGES

Temperature	Identifying Colors
60 - 120°F (16 - 49°C)	yellow
100 - 160°F (38 - 71°C)	black
120 - 180°F (49 - 82°C)	blue
160 - 220°F (71 - 104°C)	red
200 - 260°F (93 - 127°C)	green

\* Other ranges available; consult Factory.

### MATERIALS

Body	Ductile Iron
Head & Guide Assembly	Stainless Steel
Seat	Stainless Steel
Sensing Bulb:	
T	Copper
TU	Copper/Brass Union Nut
TUBW	Copper/Brass Well
TUSW	Copper/Stainless Steel Well
TBW	Copper/Brass Well with Gromet
TSW	Copper/Stainless Steel Well with Gromet

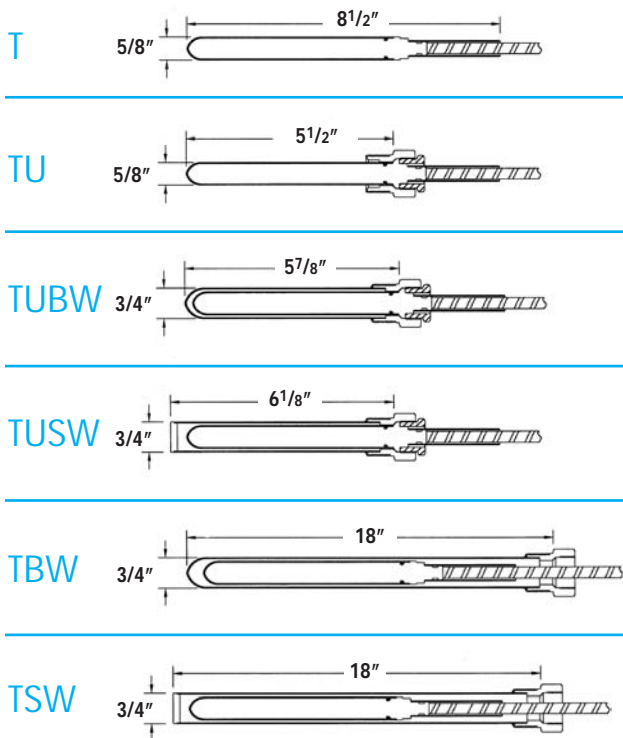
"PT"  
Pressure & Temperature  
Pilot  
(optional)



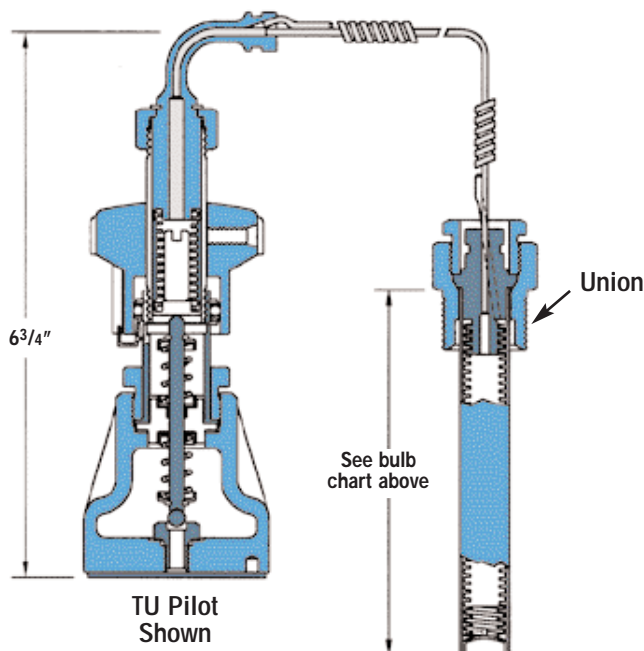
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#### SENSING BULBS AVAILABLE



All Union Connections are 3/4" NPT



<b>T</b>	Plain copper bulb
<b>TU</b>	Union connected copper bulb that can be screwed into the side of tank
<b>TUBW</b>	Type TU bulb with a brass well. The well can be placed in the side of a tank allowing the sensing bulb to be removed without having to drain the tank of liquid
<b>TUSW</b>	Type TU bulb with a corrosion resistant stainless steel well. The well allows the sensing bulb to be removed from tank without draining the liquid.
<b>TBW</b>	Type T bulb with an extended length brass well. The extended well allows deeper insertion of sensing bulb into tanks.
<b>TSW</b>	Type T bulb with extended stainless steel well. The extended well allows deeper insertion of sensing bulb into tanks.

**Other options available; consult factory.**

#### HOW TO ORDER

##### "T" TEMPERATURE PILOT

Specify:

- Temperature range from the chart or indicate the temperature of the process you wish to control.
- The length of capillary required. 8-ft. is standard.
- Bulb type needed:  
T, TU, TUBW, TUSW, TBW & TSW.

##### REGULATOR BODY

Specify:

- **HD** or **D** regulator body.
- Regulator size or capacity of steam required.
- End connections  
(threaded, 125/150/250/300# flanged).

#### RECOMMENDED PRESSURE

Minimum Inlet Pressure: 5 PSIG\*

\*For pressures less than 12 PSIG, specify low pressure temperature pilot.