

# "TRP" Pilot

Temperature Pilot for HD Regulating Valves

Watson McDaniel reserves the right to change the designs and/or materials of its products without notice.  
©2010 Watson McDaniel Company

PILOT-OPERATED REGULATING VALVES

## Temperature Pilot

- Max Inlet Pressure: 300 PSIG
- Temperature Control Range: 20-250 °F
- Min Inlet Pressures: 15 PSIG standard main valve  
5 PSIG low pressure main valve

### TYPICAL APPLICATIONS

The "TRP" Temperature Pilot is used with the HD Regulator to control temperature in various processes and systems. Some examples are: Oil heaters, Ovens, Process Heaters, Vats, Dryers and Jacketed Kettles.

### FEATURES

- Ductile Iron pilot body
- Stainless steel valve and seat
- Standard capillary is copper with 316 stainless steel armor in 10 feet length

### OPTIONS

- **Additional Capillary Length:** Available up to 25-ft. in 5-ft. increments.
- **Special Materials:** Sensing bulb, wells, and capillary are available in special corrosion resistant materials.
  - 316 stainless steel capillary
  - 316 stainless steel armor with standard capillary
  - Kynar-covered capillary
- **Finned Bulb:** Special finned sensing bulb for improved temperature sensitivity when controlling air temperature in heating ducts
- **Thermowell or Separable Socket:** Available in stainless steel or copper
- **Temperature Sensing Dial:** Indicates temperature of process being controlled



The "TRP" will control lower temperatures than the standard "T" Pilot

### MATERIALS

Pilot Body	Ductile Iron
Valve and Seat	Stainless steel
Support Bracket	Aluminum
Bulb & Capillary	Copper (optional stainless steel)
All Other Parts	Brass

### HOW TO ORDER

#### "TRP" TEMPERATURE PILOT

Specify:

- Temperature range from the chart or indicate the temperature of the process you wish to control
- The length of capillary required

#### REGULATOR BODY

Specify:

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

### DIMENSIONS – inches

Std. Bulb Range °F	Bulb Length	Bulb Diameter	Body Height C		Thermowell or Separable Socket	
	A	B	w/Dial	w/o Dial	D	E
40-65°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
65-85°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
85-110°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
110-135°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
135-160°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
160-190°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
190-210°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
210-245°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
245-275°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
275-310°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
305-365°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
365-415°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1
415-435°	12 <sup>1</sup> / <sub>4</sub>	1.0	11 <sup>1</sup> / <sub>4</sub>	16 <sup>11</sup> / <sub>64</sub>	13	1.1

