APPLICATION

The Taco-Zone Valve is an electricity operated valve used for zone control of Hydronic Heating and/or Cooling Systems. It controls the flow of water in a room or zone in response to the demands of the room or zone thermostat. This valve is a precisely made device and must be installed with care.

RATING

<table>
<thead>
<tr>
<th>Electrical</th>
<th>24</th>
<th>0.9</th>
<th>0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>volts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>amps</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature, max.</td>
<td>240°F (115°C)</td>
<td>5°F (5°C)</td>
<td>5°F (5°C)</td>
</tr>
<tr>
<td>min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working pressure (at valve, including pump head)</td>
<td>125PSI (861kPa)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum differential pressure across valve (pump head)</td>
<td>555-557</td>
<td>150 Ft. (46m)</td>
<td>560-562, 571-573</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Pressure Drop Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C_v</td>
</tr>
<tr>
<td></td>
<td>Feet</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>4.2</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>6.1</td>
</tr>
<tr>
<td>1&quot;</td>
<td>7.0</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>7.2</td>
</tr>
</tbody>
</table>

INSTALLATION

Valves should be installed vertically, to simplify replacement or cleaning of the seat, if ever required at a future date. The vertical installation permits drawing a vacuum in the system and replacing or cleaning the seat without draining the system.

When installing 560 Series Valves make sure that flow is in at the unit and by-pass connections and out at the main connection as shown in Fig. 8 and Fig. 9.

Valve may be sweat into the line without taking apart, provided, care is taken to prevent overheating. Follow these simple instructions:

1. Use a torch with sharp, pointed flame.
2. Clean surfaces thoroughly and use a good grade of flux.
3. Use 50-50 or 60-40 solder. If grades of solder requiring higher temperatures are used, such as silver solder, the valve must be dismantled.
4. Avoid excessive use of flux.

THERMOSTAT

Use a No. 568 Taco Thermostat (designed specifically for Taco-Zone Valves) with Heat Anticipator set at "D". Other suitable two wire (SPST) Thermostats may also be used if Heat Anticipator can be set at 0.5 Amps to match valve rating.

TRANSFORMER

Use a No. 669 Taco Transformer or other make rated at 115/24V-40VA. One transformer can accommodate a maximum of 3 Taco-Zone Valves.

MANUAL OPENING LEVER

For gravity circulation thru valve, push lever in Power Head all the way down. Push back up to restore to automatic operation. Lever moves easily when valve is open. Resistance is encountered when valve is closed.

CAUTION: Addition of certain chemical additives to systems utilizing Taco equipment, voids the warranty. Product can withstand antifreeze additives, ethylene glycol and propylene glycol, provided that there are no hydrocarbon constituents in these antifreezes.

* IMPORTANT NOTE

Never remove Power Head while thermostat is calling for heat. If necessary to remove Power Head, disconnect No. 1 wire from Power Head, wait two minutes, then proceed.
TYPICAL INSTALLATION DIAGRAMS — Individual Room Control

For Zoning Sections of a building, ask for Engineering Design Data.

2 WAY MODELS

3 WAY MODELS

Fig. 4

RETURN
SUPPLY

RETURN
SUPPLY

HEATING UNIT

UNIT CONN.

HEATING UNIT

MAIN CONN.

BY-PASS CONN.

RETURN
TO MAIN
SUPPLY

Fig. 5

Fig. 8

FAN COIL UNIT
(HEATING ONLY)

FAN COIL UNIT
(HEATING ONLY)

UNIT CONN.

MAIN CONN.

BY-PASS CONN.

RETURN
TO MAIN
SUPPLY

Fig. 6

RETURN
SUPPLY

Fig. 7

(3) May also be used for cooling if by-pass is provided in piping to prevent chiller freeze-up.

TYPICAL WIRING DIAGRAMS

TACO THERMOSTATS

TACO ZONE VALVES
3 ZONES - 40 VA TRANSFORMER

BASIC WIRING DIAGRAM
CONTINUOUSLY OPERATING PUMP

TACO THERMOSTATS

TACO ZONE VALVES
3 ZONES - 40 VA TRANSFORMER

BASIC WIRING DIAGRAM
INTERMITTANT OPERATING PUMP

TYPICAL BOILER HOOK-UPS

TO ZONE VALVES & SYSTEM
FROM SYSTEM

1. REDUCING VALVE
2. AIR-SCOOP OR AIR CONTROL
3. FLO-CHEK
4. TACO-TROL TANK
5. CIRCULATOR OR PUMP
6. RELIEF VALVE

FOR SYSTEMS WITH UP TO 45" PUMP HEADS

TO EXPANSION TANKS

FOR LARGER INSTALLATIONS

TO ZONE VALVES & SYSTEM
FROM SYSTEM

BOILER