INSTRUCTION SHEET

MODELS

555-½” 560-½” 571-¾”
556-¾” 561-¾” 572-1”
557-1” 562-1” 573-1¼”

ZONE VALVES

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>Size</th>
<th>C_v</th>
<th>K_v</th>
<th>Equiv. Feet</th>
<th>Length of Pipe</th>
<th>Meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>½”</td>
<td>4.2</td>
<td>3.6</td>
<td>8</td>
<td>2.4</td>
<td></td>
</tr>
<tr>
<td>¾”</td>
<td>6.1</td>
<td>5.3</td>
<td>20</td>
<td>6.1</td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>7.0</td>
<td>6.1</td>
<td>65</td>
<td>19.8</td>
<td></td>
</tr>
<tr>
<td>1¼”</td>
<td>7.2</td>
<td>6.2</td>
<td>150</td>
<td>45.7</td>
<td></td>
</tr>
</tbody>
</table>

INSTALLATION

Valves should be installed vertically, to simplify replacement or cleaning of the seat, if ever required at some 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. 569 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.

Taco, Inc. 1160 Cranston Street, Cranston, Rhode Island 02920 Telephone: (401) 942-8000

Taco (Canada) Ltd.
TYPICAL INSTALLATION DIAGRAMS — Individual Room Control

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

2 WAY MODELS

HEATING UNIT

Fig. 4

RETURN
SUPPLY

HEATING UNIT

Fig. 5

RETURN
SUPPLY

FAN COIL UNIT
(HEATING ONLY)

Fig. 6

RETURN
SUPPLY

FAN COIL UNIT
(HEATING ONLY)

Fig. 7

RETURN
SUPPLY

(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

3 WAY MODELS

UNIT CONN.

MAIN CONN.

HEATING UNIT

RETURN
SUPPLY

TO MAIN

BY-PASS CONN.

Fig. 8

UNIT CONN.

MAIN CONN.

FAN COIL UNIT

BY-PASS CONN.

RETURN
SUPPLY

TO MAIN

Fig. 9

TYPICAL BOILER HOOK-UPS

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

TO EXPANSION TANKS

TO ZONE VALVES & SYSTEM

FROM SYSTEM

FOR SYSTEMS WITH UP TO 45" PUMP HEADS

FOR LARGER INSTALLATIONS

FROM SYSTEM

TO ZONE VALVES & SYSTEM