APPLICATION:
The Taco geothermal water flow control valve is an electrically operated valve for use in water source heat pump systems. It opens and closes slowly and smoothly in response to the action of a controlling heating and/or cooling thermostat.

SPECIFICATION DATA:

- 24 volts
- 0.9 amps. (1.3 max. intermittent)
- Temp. range 34F (1C) min., 240F (116C) max.
- Shut off pressure - 65 psi (448kPa) max.

<table>
<thead>
<tr>
<th>Model No</th>
<th>Size</th>
<th>Flow in G.P.M.</th>
<th>Pressure Drop Table, PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4 6 8 10 12 14 16 18</td>
<td></td>
</tr>
<tr>
<td>556-G3, 5101-G3</td>
<td>3/4&quot;</td>
<td>6.1 0.4 1.0 1.7 2.7 3.9 5.3 6.9 8.7</td>
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<tr>
<td>557-G3</td>
<td>1&quot;</td>
<td>7.0 0.3 0.7 1.3 2.0 2.9 4.0 5.2 6.6</td>
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</tbody>
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INSTALLATION:

1. The valve may be installed in any position except upside down; in other words the power head should not be below the valve.

2. The valve should be installed in a clean water system. Sand or other particles may cause the valve to leak.

CAUTION: Sand or other contaminants can damage the valves internal components and cause it to fail prematurely. Precautions must be taken to prevent contaminants from damaging the valve.

3. The valve should be installed indoors, GT valves for indoor installation only.

4. Install with the arrow on the valve body pointing in the direction of water flow.

5. A sweat connection valve should have its power head removed before heating the connections. The valve can be sweat into the line without further disassembly provided care is taken to prevent overheating. Follow these simple instructions:

   (1) Use a torch with a sharp, pointed flame.
   (2) Clean surfaces thoroughly and use a good grade of flux.
   (3) Use of a solder with a melting point below 600F is recommended
   (4) Avoid excessive use of flux.

6. Installation over a drain pan is recommended in locations where a water leak can cause damage.

7. Typical wiring diagram:

   ![Typical Wiring Diagram]

   IMPORTANT: If the thermostat has a heat anticipator, remove it from the circuit by moving the setting arm all the way over in the lowest resistance direction (longest cycle) on top of the screw or terminal.

8. Allow about 90 seconds for the valve to fully open or close. The valve avoids water hammer by opening and closing slowly.
HOW TO REPLACE GLAND ASSEMBLY

1. Disconnect wire to No. 1 terminal of power head and wait at least four minutes.
2. Twist power head clockwise and lift it from valve.
3. Remove the four hold down plate screws and remove plate.
4. Remove the gland with a wrench and replace it. If the whole seat assembly turns, pry it out so that it can be gripped with a wrench while the gland is removed and replaced.

HOW TO REPLACE SEAT ASSEMBLY

1. Follow steps 1, 2 & 3 as outlined for gland removal, and then pry out seat assembly.

TO RE-ASSEMBLE

2. Place cleaned or new assembly in the valve body and gently rotate until rubber cup drops into place. At this point the wide flange of the assembly will be approximately 1/8" above the top of the valve body.

   DO NOT FORCE INTO PLACE

3. Press the hold down plate evenly on the seat assembly until the four screws can be engaged in the valve. Tighten the screws evenly until the assembly is completely seated.

4. Test for leaks.

5. Remount power head and reconnect No. 1 wire.