D5 Brass
DC Electronically Commutated Spherical Motor Centrifugal Pumps

Applications
Specifically designed for the following uses:
• Hot Water Circulation
• Radiant Floor Heating
• Liquid Transfer
• Solar Applications
• General Purpose Pumping
• Potable Water Applications

Specifications
Pump:
• Max Capacities: 7 GPM
• Max Head: 15’
• Pipe Connections:
  ½” FPT and ½” Sweat
  ½” Union Connection
• Maximum Working Pressure: 150 PSI
• Maximum Temperature: 203° F
• Rotation: counter clockwise when viewed from the motor end

Motor:
• Electronically Commutated DC Spherical Motor
• Canned Spherical Motor Type
• 8-24 Volt DC
• Automatic Overload Protection
• Low In-Rush Current

Features
Compact Design:
Close coupled, space saving design provides easy installation.

Mounting:
Pump can be mounted horizontally or vertically with motor end down.

Construction:
Wetted parts are brass, 316SS, thermoplastic, carbon and ceramic for superior corrosion resistance.

Ceramic Bearing Ball and Carbon Bearing Cap:
High density ceramic bearing ball and graphite impeller bearing cap designed for high efficiency and long life.

Impeller:
Highly efficient and dynamically balanced with carbon bearing for smooth ultra quiet operation.

Casing:
Casing is lead free brass construction.

Mechanical Seal:
Unique patented design has no mechanical seal which is a potential leak path.

Motor:
Highly efficient and ultra quiet spherical motor design. Pump is designed for continuous operation. All ratings are within working limits of the motor.

Electronics:
Embedded microprocessor control is self-regulating and available with variable speed dial control (potentiometer) on the pump or as an optional PWM input for OEM.

Noise level:
Whisper quiet, less than 40 db.

Weight:
Lightweight construction weighs less than 2lbs.
Laing Thermotech
D5 Brass Specifications

Materials of Construction (Wetted Parts)

<table>
<thead>
<tr>
<th>Part</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Housing</td>
<td>Brass</td>
</tr>
<tr>
<td>“O” Ring</td>
<td>EPDM or Viton</td>
</tr>
<tr>
<td>Impeller</td>
<td>Polyphenylene Oxide (PPO)</td>
</tr>
<tr>
<td>Bearing</td>
<td>Carbon/Aluminum Ceramic</td>
</tr>
<tr>
<td>All Other Wetted Parts</td>
<td>316 Stainless Steel</td>
</tr>
</tbody>
</table>

D5 Series Pump Curves - Brass

BS and BT Curve (Vario)

UCT Curve (Vario)

BS and BT 1/2” Curve (Strong)

UCT Curve (Strong)