Series 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

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 Brass Volute type construction.

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

Motor
High efficient EC spherical motor design, ultra quiet, ultra efficient. 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 with PWM input or dial control (potentiometer) on the pump.

Noise level
Whisper quiet, less than 40 db.

Weight
Lightweight construction weighs less than 2lbs.

Specifications
Pump
- Max Capacities: 7 GPM
- Max Head: 14.5’
- Pipe Connections: ½” FPT and ½” Sweat Suction and Discharge
- ½” Union Connection
- Maximum Working Pressure: 150 PSI
- Maximum Temperature: 230° F
- Rotation: counter clockwise when viewed from the motor end

Motor
- Electronically Commutated DC Spherical Motor
- Canned Spherical Type Motor
- 8-25 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.
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>Nylon/PPO</td>
</tr>
<tr>
<td>Bearing</td>
<td>Carbon/Alumina Ceramic</td>
</tr>
<tr>
<td>All Other Wetted Parts</td>
<td>316 Stainless Steel or Plastic</td>
</tr>
</tbody>
</table>

BS and BT Curve (Vario)

UCT Curve (Vario)

BS and BT Curve (Strong)

UCT Curve (Strong)