### Series 3SEV-L

**Description:**

**Sample Specification**

**Design: 3SEV-L**

- **0.5, 0.75 & 1.0HP, 1750 & 3450RPM, 60Hz**

**Description:**

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS

**Warning:**

CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

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### DISCHARGE
- 3" NPT, Female, Vertical, Bolt-on Flange

**Liquid Temperature:**
- 104°F (40°C) Continuous

**Volute:**
- Cast Iron ASTM A-48, Class 30

**Motor Housing:**
- Cast Iron ASTM A-48, Class 30

**Seal Plate:**
- Cast Iron ASTM A-48, Class 30

**ImPELLER:**
- **Design:** Vortex, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
- **Material:** Cast Iron ASTM A-48, Class 30

**Shaft:**
- 416 Stainless Steel

**Square Rings:**
- Buna-N

**Hardware:**
- 300 Series Stainless Steel

**Paint:**
- Air Dry Enamel

**Seal:**
- **Design:** Single Mechanical
- **Material:** Carbon/Ceramic/Buna-N
- Hardware - 300 Series Stainless

**Cord Entry:**
- 30 ft. (9.1m) Cord with plug on 120 volt & .5HP, 240 volt, 1 phase. Quick connect custom molded for sealing and strain relief

**Speed:**
- 1750 & 3450 RPM (Nominal)

**Upper Bearing:**
- Single Row, Ball, Oil lubricated
  - **Load:** Radial

**Lower Bearing:**
- Single Row, Ball, Oil lubricated
  - **Load:** Radial & Thrust

**Motor:**
- **Design:** NEMA L - Single Phase, NEMA B - Three phase Torque Curve, Oil Filled, Squirrel Cage Induction
- **Insulation:** Class B
- Class F on selected models

**Single Phase:**
- Permanent Split Capacitor (PSC)
- Includes Overload Protection in Motor

**Three Phase:**
- 200-240/480 is Tri-Voltage, 600V.
- Requires Overload Protection to be included in control panel

**Optional Equipment:**
- Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel).

**Recommended:**
- Accessories: Break Away Fitting (BAF)
- Check Valve
- Control Panel
- Seal Kit PN: 130180
- Service Kit PN: 130207

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**Disclaimer:**

WARNING: CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

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**Manufacturer:**

**A Crane Co. Company**

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

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**Certifications:**

ULLR16567

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**Manufacturer:**

BARNES

www.cranepumps.com

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**Series:** 3SEV-L

**Model:** 2" Spherical Solids Handling Vortex, Single Seal
### Series 3SEV-L
2" Spherical Solids Handling Vortex, Single Seal

#### 3" Discharge

![Diagram of pump dimensions](image)

**IMPORTANT !**

1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.

2.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

<table>
<thead>
<tr>
<th>MODEL NO</th>
<th>PART NO</th>
<th>HP</th>
<th>VOLT/PH</th>
<th>Hz</th>
<th>RPM (Nom)</th>
<th>NEMA START CODE</th>
<th>INSUL. CLASS</th>
<th>FULL LOAD AMPS</th>
<th>LOCKED ROTOR AMPS</th>
<th>CORD SIZE</th>
<th>CORD TYPE</th>
<th>CORD O.D inch (mm)</th>
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<tbody>
<tr>
<td>3SEV514L</td>
<td>104944</td>
<td>0.5</td>
<td>120/1</td>
<td>60</td>
<td>1750</td>
<td>F</td>
<td>B</td>
<td>12.0</td>
<td>21.3</td>
<td>14/3</td>
<td>SJTOW</td>
<td>0.375 (9.5)</td>
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<tr>
<td>3SEV524L</td>
<td>104945</td>
<td>0.5</td>
<td>240/1</td>
<td>60</td>
<td>1750</td>
<td>J</td>
<td>B</td>
<td>6.3</td>
<td>14.9</td>
<td>14/3</td>
<td>SOW</td>
<td>0.530 (13.5)</td>
</tr>
<tr>
<td>3SEV594L</td>
<td>104946</td>
<td>0.5</td>
<td>200-240/3</td>
<td>60</td>
<td>1750</td>
<td>H/L</td>
<td>B</td>
<td>3.7/3.8</td>
<td>9.8/11.0</td>
<td>14/4</td>
<td>SOW</td>
<td>0.570 (14.5)</td>
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<tr>
<td>3SEV544L</td>
<td>104947</td>
<td>0.5</td>
<td>480/3</td>
<td>60</td>
<td>1750</td>
<td>K</td>
<td>B</td>
<td>1.9</td>
<td>5.3</td>
<td>14/4</td>
<td>SOW</td>
<td>0.570 (14.5)</td>
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<tr>
<td>3SEV554L</td>
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<td>60</td>
<td>1750</td>
<td>H</td>
<td>B</td>
<td>1.4</td>
<td>3.4</td>
<td>14/4</td>
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<td>0.570 (14.5)</td>
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<td>3SEV724L</td>
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<td>1750</td>
<td>K</td>
<td>F</td>
<td>7.1</td>
<td>25.8</td>
<td>14/3</td>
<td>SOW</td>
<td>0.530 (13.5)</td>
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<td>B</td>
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<td>SOW</td>
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<td>B</td>
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<td>60</td>
<td>1750</td>
<td>L</td>
<td>B</td>
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<td>1750</td>
<td>G</td>
<td>F</td>
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<td>SOW</td>
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<td>1750</td>
<td>E/H</td>
<td>B</td>
<td>5.3/5.1</td>
<td>13.7/15.4</td>
<td>14/4</td>
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<td>60</td>
<td>1750</td>
<td>J</td>
<td>B</td>
<td>2.2</td>
<td>7.2</td>
<td>14/4</td>
<td>SOW</td>
<td>0.570 (14.5)</td>
</tr>
</tbody>
</table>

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

(*) Pump is CSA listed ONLY

**IMPORTANT !**

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Series 3SEV-L
Performance Curve
0.5, 0.75 & 1.0HP, 1750RPM, 60Hz

3” Discharge

<table>
<thead>
<tr>
<th>TOTAL METERS</th>
<th>HEAD FEET</th>
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<tbody>
<tr>
<td>12</td>
<td>40</td>
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<tr>
<td>10</td>
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<td>8</td>
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<td>6</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
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<tr>
<td>2</td>
<td>2</td>
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STANDARD IMPELLER SIZES

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<thead>
<tr>
<th>Pump HP</th>
<th>Impeller Dia.</th>
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<tbody>
<tr>
<td>0.75</td>
<td>6.00 (152)</td>
</tr>
<tr>
<td>1.00</td>
<td>6.75 (172)</td>
</tr>
</tbody>
</table>

Service Factor: 1.85

Testing is performed with water, specific gravity 1.0 @ 68º F @ (20ºC), other fluids may vary performance.

(*) These curves for .5HP ONLY
Service Factor: 1.85

CRANE PUMPS & SYSTEMS
A Crane Co. Company
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

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Series 3SEV-L
Performance Curve
0.5, 0.75 & 1.0HP, 3450RPM, 60Hz

1½", 2" & 3" Discharge

Testing is performed with water, specific gravity 1.0 @ 68°F @ (20°C), other fluids may vary performance.