## Electric Pumps

**PE30, PE40, PE50 Series**

- Single Phase

- Meets OSHA regulations for sound (80dBA)
- 2 Stage pumps provide fast run up before the high pressure stage
- Suction strainers screen out contamination to prevent pump damage
- All units are wired as 120 VAC 60 Hz; Optional wiring includes 50 Hz motors and 240 VAC 60 Hz
- 100% Duty Cycle, NEMA 5 Enclosure TEFC motors
- All hand pendants are wired 24 VAC for safety
- Starts under full load

### Use with Cylinder Type

<table>
<thead>
<tr>
<th>Cylinder Type</th>
<th>Flow Rate</th>
<th>Motor Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Stage</td>
<td>2nd Stage</td>
</tr>
<tr>
<td></td>
<td>in³/min</td>
<td>psi</td>
</tr>
</tbody>
</table>

### Dump Manual Valve w/10 ft. Motor Pendant

**2W/2P Advance/Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

### Dump Solenoid Valve w/10 ft. Pendant

**2W/2P Advance/Return (Auto*)**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

**3W/2P Advance/Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

### Manual Valve

**3W/3P Advance/Hold Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

**4W/3P Advance/Hold/Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

### Manual Valve w/10 ft. Motor Pendant

**3W/3P Advance/Hold Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

**4W/3P Advance/Hold/Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

### Solenoid Valve w/10 ft. Pendant & Locking Plate

**3W/3P Advance/Hold Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

**4W/3P Advance/Hold/Return**

- 293 350 18 10,000 0.5 Hp
- 311 700 37 10,000 1.0 Hp
- 476 700 61 10,000 1.5 Hp

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**1-888-332-6419**

www.BVAhydraulics.com

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*Advance position holds pressure with motor running or off. Return retracts cylinder with motor off.

**Advance position holds pressure with motor running and cylinder Returns when button is released.
## Usable Oil Capacity

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Number</th>
<th>Model Number</th>
<th>Model Number</th>
<th>Model Number</th>
<th>Model Number</th>
<th>Model Number</th>
<th>Model Number</th>
<th>Model Number</th>
</tr>
</thead>
</table>

### Dump Manual Valve w/10 ft. Motor Pendant

<table>
<thead>
<tr>
<th>PE30DMP01A</th>
<th>PE30DMP02A</th>
<th>PE30DMP03A</th>
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<th>-</th>
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</thead>
<tbody>
<tr>
<td>-</td>
<td>PE40DMP02A</td>
<td>PE40DMP03A</td>
<td>PE40DMP05A</td>
<td>PE40DMP10A</td>
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<td>-</td>
<td>PE50DMP03A</td>
<td>PE50DMP05A</td>
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<td>PE50DMP15A</td>
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</table>

### Dump Solenoid Valve w/10 ft. Pendant

<table>
<thead>
<tr>
<th>PE30H2S01A</th>
<th>PE30H2S02A</th>
<th>PE30H2S03A</th>
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<tbody>
<tr>
<td>-</td>
<td>PE40H2S02A</td>
<td>PE40H2S03A</td>
<td>PE40H2S05A</td>
<td>PE40H2S10A</td>
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<tr>
<td>PE30DSP01A</td>
<td>PE30DSP02A</td>
<td>PE30DSP03A</td>
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<td>PE40DSP02A</td>
<td>PE40DSP03A</td>
<td>PE40DSP05A</td>
<td>PE40DSP10A</td>
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<td>-</td>
<td>PE50DSP03A</td>
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### Manual Valve

<table>
<thead>
<tr>
<th>PE30M3N01A</th>
<th>PE30M3N02A</th>
<th>PE30M3N03A</th>
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<tbody>
<tr>
<td>-</td>
<td>PE40M3N02A</td>
<td>PE40M3N03A</td>
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<td>PE30M4N01A</td>
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<td>-</td>
<td>PE40M4N02A</td>
<td>PE40M4N03A</td>
<td>PE40M4N05A</td>
<td>PE40M4N10A</td>
<td>PE40M4N15A</td>
<td>PE40M4N25A</td>
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<tr>
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<td>PE50M4N03A</td>
<td>PE50M4N05A</td>
<td>PE50M4N10A</td>
<td>PE50M4N15A</td>
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### Manual Valve w/10 ft. Motor Pendant

<table>
<thead>
<tr>
<th>PE30W3N01A</th>
<th>PE30W3N02A</th>
<th>PE30W3N03A</th>
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<tbody>
<tr>
<td>-</td>
<td>PE40W3N02A</td>
<td>PE40W3N03A</td>
<td>PE40W3N05A</td>
<td>PE40W3N10A</td>
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<tr>
<td>PE30W4N01A</td>
<td>PE30W4N02A</td>
<td>PE30W4N03A</td>
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<td>-</td>
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<tr>
<td>-</td>
<td>PE40W4N02A</td>
<td>PE40W4N03A</td>
<td>PE40W4N05A</td>
<td>PE40W4N10A</td>
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<tr>
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<td>PE50W4N03A</td>
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<td>PE50W4N10A</td>
<td>PE50W4N15A</td>
<td>PE50W4N25A</td>
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</table>

### Solenoid Valve w/10 ft. Pendant & Locking Plate

<table>
<thead>
<tr>
<th>PE30S3L01A</th>
<th>PE30S3L02A</th>
<th>PE30S3L03A</th>
<th>-</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>PE40S3L02A</td>
<td>PE40S3L03A</td>
<td>PE40S3L05A</td>
<td>PE40S3L10A</td>
<td>PE40S3L15A</td>
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<tr>
<td>PE30S4L01A</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>PE40S4L02A</td>
<td>PE40S4L03A</td>
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<td>PE50S4L03A</td>
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<td>PE50S4L10A</td>
<td>PE50S4L15A</td>
<td>PE50S4L25A</td>
</tr>
</tbody>
</table>

* Advance position holds pressure with motor running or off. Return retracts cylinder with motor off.
** Advance position holds pressure with motor running and cylinder returns when button is released.
Electric Pumps

**Electric Power Source**

<table>
<thead>
<tr>
<th>Reservoir Size</th>
<th>Dimensional Table (in)</th>
<th>Pump Weight by Series* (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>1 Gal</td>
<td>12.7</td>
<td>10.3</td>
</tr>
<tr>
<td>2 Gal</td>
<td>16.7</td>
<td>12.0</td>
</tr>
<tr>
<td>3 Gal</td>
<td>16.7</td>
<td>12.0</td>
</tr>
<tr>
<td>5 Gal</td>
<td>16.7</td>
<td>12.0</td>
</tr>
<tr>
<td>10 Gal</td>
<td>20.9</td>
<td>16.5</td>
</tr>
<tr>
<td>15 Gal</td>
<td>20.9</td>
<td>16.5</td>
</tr>
<tr>
<td>25 Gal</td>
<td>25.6</td>
<td>21.3</td>
</tr>
</tbody>
</table>

* Pump weights include oil.
## Single Phase Pump Matrix Chart

If you don’t see a pump that would fit your application needs, you can custom build a pump to your desired specifications. Use this Pump Matrix Chart as a guide for creating your very own custom built Electric Pump. For assistance in building your pump, call your local BVA Representative.

### 1 - Product Type
- **P** - Pump

### 2 - Motor Type
- **E** - Induction Electric Motor, TEFC

### 3 - Flow Group
- **30** - 293/18 in³/min @ 350/10,000 psi, 0.5 Hp
- **40** - 311/37 in³/min @ 700/10,000 psi, 1.0 Hp
- **50** - 476/61 in³/min @ 700/10,000 psi, 1.5 Hp

### 4 - Valve Type/Operation
- **CMR** - Pump Mounted Manifold Block - Pressure & Return Ports Only
- **WMR** - CMR Block w/10ft Motor Control Pendant
- **DMP** - Dump Valve w/motor pendant 2W/2P
- **DSP** - Dump Solenoid Valve w/pendant 3W/2P (Spool Type Valve)
- **H2S** - Solenoid Valve 2W/2P - Pendant Control On/Off Only (Poppet Type Valve)
- **M2N** - Manual Valve 3W/2P
- **M3N** - Manual Valve 3W/3P
- **M4N** - Manual Valve 4W/3P
- **M3L** - Manual Valve 3W/3P w/Locking Plate
- **M4L** - Manual Valve 4W/3P w/Locking Plate
- **W2N** - Manual Valve 3W/2P w/10ft Motor Control Pendant
- **W3N** - Manual Valve 3W/3P w/10ft Motor Control Pendant
- **W4N** - Manual Valve 4W/3P w/10ft Motor Control Pendant
- **W3L** - Manual Valve 3W/3P w/Locking Plate and 10ft Motor Control Pendant
- **W4L** - Manual Valve 4W/3P w/Locking Plate and 10ft Motor Control Pendant
- **S3N** - Solenoid Valve 3W/3P (Spool Type)
- **S4N** - Solenoid Valve 4W/3P (Spool Type)
- **S3L** - Solenoid Valve 3W/3P w/Locking Plate (Spool Type Valve)
- **S4L** - Solenoid Valve 4W/3P w/Locking Plate (Spool Type Valve)

### 5 - Reservoir Size
- **01** - 1 Gallon
- **02** - 2 Gallons
- **03** - 3 Gallons
- **05** - 5 Gallons
- **10** - 10 Gallons
- **15** - 15 Gallons
- **25** - 25 Gallons

### 6 - Voltage
- **A** - 120V 1 ph 60 Hz - US Plug NEMA 5-15P
- **D** - 230V 1 ph 50 Hz - European Plug
- **E** - 240V 1 ph 60 Hz - No Plug

### 7 - Pump Options
- **A** - External Pressure Adjustment Block (available on any models with 3W/3P or 4W/3P)
- **G** - Gauge w/Gauge Adapter 0-15,000 psi 2-1/2” Wet - Installed “A” Port
- **M** - Intermittent Motor Option (available on solenoid equipped models only EXCEPT H2S option)
- **P** - Pressure Switch (available on solenoid equipped models only)
- **U** - Foot Control Switch (available on solenoid equipped models only)
- **W** - Wireless Control (available on solenoid equipped models only)

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Not all options are available in all configurations. Table is for reference only. Please consult your local BVA dealer if you want to order a custom pump or if you have questions.