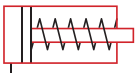
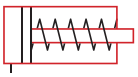
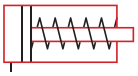
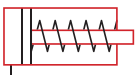
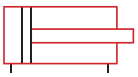
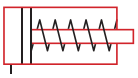
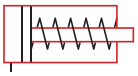
# Electric Pumps

***PE30, PE40, PE50 Series***
***- Single Phase***

*PE50W4N03A*

- 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 | | Flow Rate 1st Stage in³/min | Flow Rate 1st Stage psi | Flow Rate 2nd Stage in³/min | Flow Rate 2nd Stage psi | Motor Size |
|---|---|---|---|---|---|---|---|
| **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 |

** 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.*

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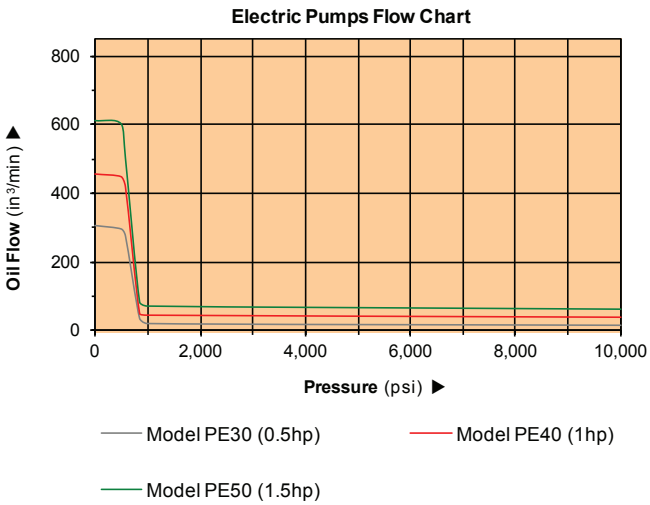


*PE Series*

**80%**

**Safety Practices**

Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.

| Usable Oil Capacity | | | | | | |
|---|---|---|---|---|---|---|
| 1 Gal | 2 Gal | 3 Gal | 5 Gal | 10 Gal | 15 Gal | 25 Gal |
| Model Number | Model Number | Model Number | Model Number | Model Number | Model Number | Model Number |
| **Dump Manual Valve w/10 ft. Motor Pendant** | | | | | | |
| PE30DMP01A | PE30DMP02A | PE30DMP03A | - | - | - | - |
| - | PE40DMP02A | PE40DMP03A | PE40DMP05A | PE40DMP10A | - | - |
| - | - | PE50DMP03A | PE50DMP05A | PE50DMP10A | PE50DMP15A | PE50DMP25A |
| **Dump Solenoid Valve w/10 ft. Pendant** | | | | | | |
| PE30H2S01A | PE30H2S02A | PE30H2S03A | - | - | - | - |
| - | PE40H2S02A | PE40H2S03A | PE40H2S05A | PE40H2S10A | - | - |
| - | - | PE50H2S03A | PE50H2S05A | PE50H2S10A | PE50H2S15A | PE50H2S25A |
| PE30DSP01A | PE30DSP02A | PE30DSP03A | - | - | - | - |
| - | PE40DSP02A | PE40DSP03A | PE40DSP05A | PE40DSP10A | - | - |
| - | - | PE50DSP03A | PE50DSP05A | PE50DSP10A | PE50DSP15A | PE50DSP25A |
| **Manual Valve** | | | | | | |
| PE30M3N01A | PE30M3N02A | PE30M3N03A | - | - | - | - |
| - | PE40M3N02A | PE40M3N03A | PE40M3N05A | PE40M3N10A | PE40M3N15A | PE40M3N25A |
| - | - | PE50M3N03A | PE50M3N05A | PE50M3N10A | PE50M3N15A | PE50M3N25A |
| PE30M4N01A | PE30M4N02A | PE30M4N03A | - | - | - | - |
| - | PE40M4N02A | PE40M4N03A | PE40M4N05A | PE40M4N10A | PE40M4N15A | PE40M4N25A |
| - | - | PE50M4N03A | PE50M4N05A | PE50M4N10A | PE50M4N15A | PE50M4N25A |
| **Manual Valve w/10 ft. Motor Pendant** | | | | | | |
| PE30W3N01A | PE30W3N02A | PE30W3N03A | - | - | - | - |
| - | PE40W3N02A | PE40W3N03A | PE40W3N05A | PE40W3N10A | PE40W3N15A | PE40W3N25A |
| - | - | PE50W3N03A | PE50W3N05A | PE50W3N10A | PE50W3N15A | PE50W3N25A |
| PE30W4N01A | PE30W4N02A | PE30W4N03A | - | - | - | - |
| - | PE40W4N02A | PE40W4N03A | PE40W4N05A | PE40W4N10A | PE40W4N15A | PE40W4N25A |
| - | - | PE50W4N03A | PE50W4N05A | PE50W4N10A | PE50W4N15A | PE50W4N25A |
| **Solenoid Valve w/10 ft. Pendant & Locking Plate** | | | | | | |
| PE30S3L01A | PE30S3L02A | PE30S3L03A | - | - | - | - |
| - | PE40S3L02A | PE40S3L03A | PE40S3L05A | PE40S3L10A | PE40S3L15A | PE40S3L25A |
| - | - | PE50S3L03A | PE50S3L05A | PE50S3L10A | PE50S3L15A | PE50S3L25A |
| PE30S4L01A | PE30S4L02A | PE30S4L03A | - | - | - | - |
| - | PE40S4L02A | PE40S4L03A | PE40S4L05A | PE40S4L10A | PE40S4L15A | PE40S4L25A |
| - | - | PE50S4L03A | PE50S4L05A | PE50S4L10A | PE50S4L15A | PE50S4L25A |

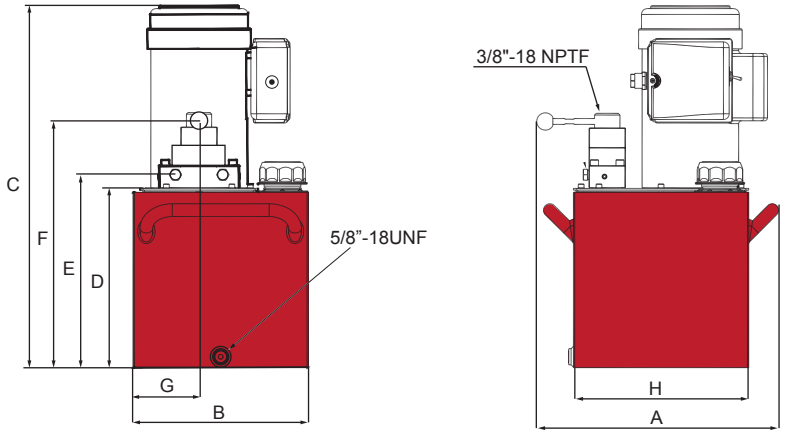
** Advance position holds pressure with motor running or off. Return retracts cylinder with motor off*
*** Advance position holds pressure with motor running and cylinder Returns when button is released.*

# Electric Pumps

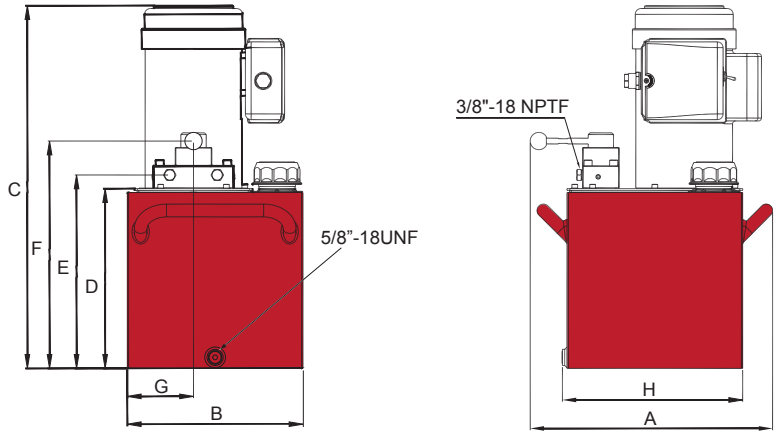
*Electric Power Source*

*PE50M4N03A*

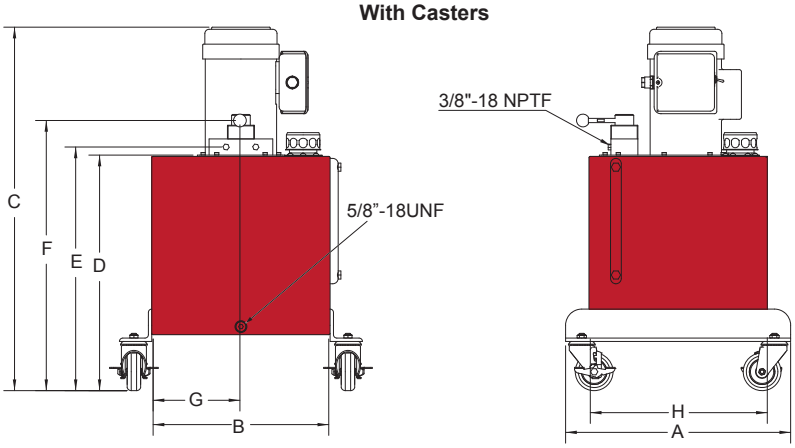
**PE30 Series**




**PE40/PE50 Series**




**PE40/PE50 Series With Casters**



### Pump Accessories

See the assortment of accessories designed to work with these pumps.

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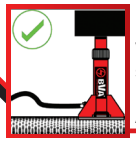
### Safety Practices

Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.



### Safety Instructions

Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared.

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### Pressure Settings

Custom pressure settings available upon request. Contact your local BVA dealer.

### Reservoir Sizing

Recommended reservoir sizing is Extended Cylinder + Hose Volume Oil Capacity x 1.3

| Reservoir Size | Dimensional Table (in) | | | | | | | | Pump Weight by Series* (lbs) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | PE30 | PE40 | PE50 |
| 1 Gal | 12.7 | 10.3 | 19.1 | 4.7 | 5.7 | 12.0 | 8.1 | 12.4 | 61.0 | - | - |
| 2 Gal | 16.7 | 12.0 | 17.9 | 6.0 | 6.9 | 13.2 | 4.5 | 12.4 | 75.0 | 72.0 | - |
| 3 Gal | 16.7 | 12.0 | 19.7 | 7.2 | 8.2 | 10.5 | 4.5 | 12.4 | 84.0 | 81.0 | 91.0 |
| 5 Gal | 16.7 | 12.0 | 24.8 | 12.3 | 13.2 | 15.5 | 4.5 | 12.4 | - | 102.0 | 112.0 |
| 10 Gal | 20.9 | 16.5 | 31.5 | 19.0 | 19.9 | 22.3 | 8.3 | 16.5 | - | 184.0 | 194.0 |
| 15 Gal | 20.9 | 16.5 | 34.6 | 22.1 | 23.1 | 25.4 | 8.3 | 16.5 | - | 255.0 | 265.0 |
| 25 Gal | 25.6 | 21.3 | 34.6 | 22.1 | 23.1 | 25.4 | 10.6 | 21.3 | - | 362.0 | 372.0 |

** Pump weights include oil.*

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# 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.

| P | E | 30 | S4L | 02 | A | - | A | G |
|---|---|---|---|---|---|---|---|---|
| *1* | *2* | *3* | *4* | *5* | *6* | | *7* | |
| *Product Type* | *Motor Type* | *Flow Group* | *Valve Type /Operation* | *Reservoir Size* | *Voltage* | | *Pump Options* | |

## 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) |

*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.*

***PE Series***

### Ordering Example

**PE30S4L02A-A**

After reviewing this model number, we know that the pump has the following specifications:

- Electric power source
- ½ Hp flow group
- Solenoid Valve w/Locking Plate 4W/3P
- 2 gallon reservoir tank
- External Pressure Adjustment Block

*PE30S4L02A-A*

### Related Product: Gauges

Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need.

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### Safety Instructions

Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared.

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### Related Product: Hoses

We offer a variety of hoses, fittings, lengths and materials.

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