



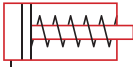
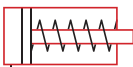
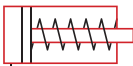
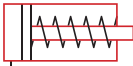
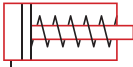
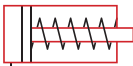
## Electric Pumps

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

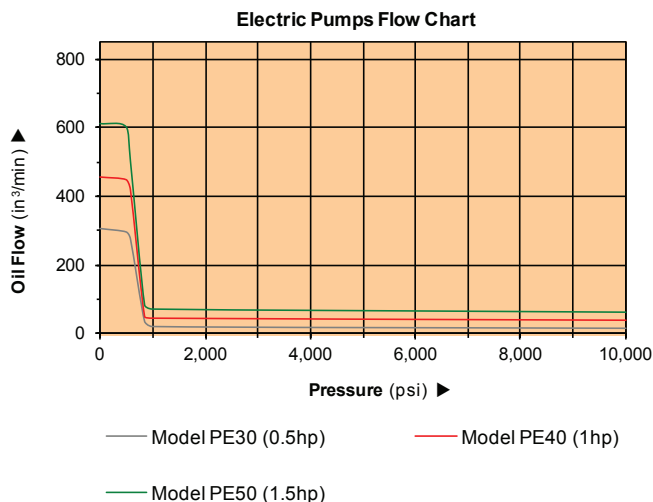
|                                                                                                 |                                     |                                                                                     |     |                       |     |               |        |
|-------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|-----|-----------------------|-----|---------------|--------|
| <br>PE50W4N03A | Use with<br>Cylinder<br>Type        | Flow Rate                                                                           |     |                       |     | Motor<br>Size |        |
|                                                                                                 |                                     | 1 <sup>st</sup> Stage                                                               |     | 2 <sup>nd</sup> Stage |     |               |        |
|                                                                                                 |                                     | in <sup>3</sup> /min                                                                | psi | in <sup>3</sup> /min  | psi |               |        |
| Dump Manual Valve w/10 ft. Motor Pendant                                                        |                                     |                                                                                     |     |                       |     |               |        |
|                | 2W/2P<br>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<br>Advance<br>/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<br>Advance<br>/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<br>Advance<br>/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<br>Advance<br>/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<br>Advance<br>/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<br>Advance<br>/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<br>Advance<br>/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<br>Advance<br>/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 |

1-888-332-6419

[www.BVAhydraulics.com](http://www.BVAhydraulics.com)

\* 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.



#### 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 |
| <b>Dump Manual Valve w/10 ft. Motor Pendant</b>            |              |              |              |              |              |              |
| PE30DMP01A                                                 | PE30DMP02A   | PE30DMP03A   | -            | -            | -            | -            |
| -                                                          | PE40DMP02A   | PE40DMP03A   | PE40DMP05A   | PE40DMP10A   | -            | -            |
| -                                                          | -            | PE50DMP03A   | PE50DMP05A   | PE50DMP10A   | PE50DMP15A   | PE50DMP25A   |
| <b>Dump Solenoid Valve w/10 ft. Pendant</b>                |              |              |              |              |              |              |
| PE30H2S01A                                                 | PE30H2S02A   | PE30H2S03A   | -            | -            | -            | -            |
| -                                                          | PE40H2S02A   | PE40H2S03A   | PE40H2S05A   | PE40H2S10A   | -            | -            |
| -                                                          | -            | PE50H2S03A   | PE50H2S05A   | PE50H2S10A   | PE50H2S15A   | PE50H2S25A   |
| PE30DSP01A                                                 | PE30DSP02A   | PE30DSP03A   | -            | -            | -            | -            |
| -                                                          | PE40DSP02A   | PE40DSP03A   | PE40DSP05A   | PE40DSP10A   | -            | -            |
| -                                                          | -            | PE50DSP03A   | PE50DSP05A   | PE50DSP10A   | PE50DSP15A   | PE50DSP25A   |
| <b>Manual Valve</b>                                        |              |              |              |              |              |              |
| 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   |
| <b>Manual Valve w/10 ft. Motor Pendant</b>                 |              |              |              |              |              |              |
| 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   |
| <b>Solenoid Valve w/10 ft. Pendant &amp; Locking Plate</b> |              |              |              |              |              |              |
| 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



### Pump Accessories

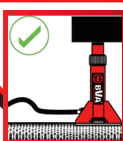
See the assortment of accessories designed to work with these pumps.

pg 69



### 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.

pg 92



### Pressure Settings

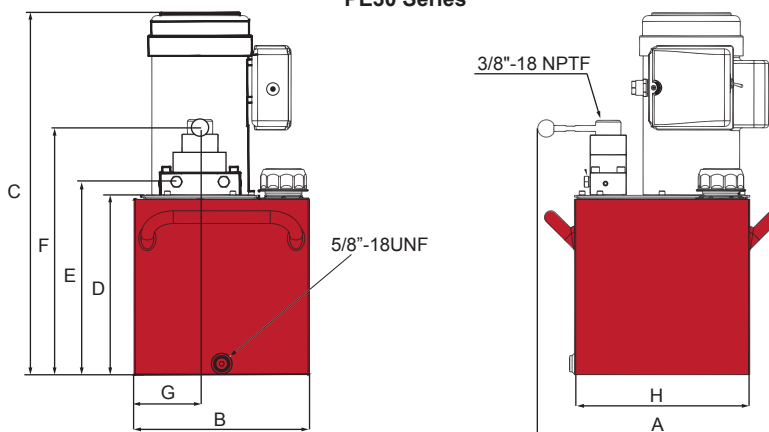
Custom pressure settings available upon request. Contact your local BVA dealer.



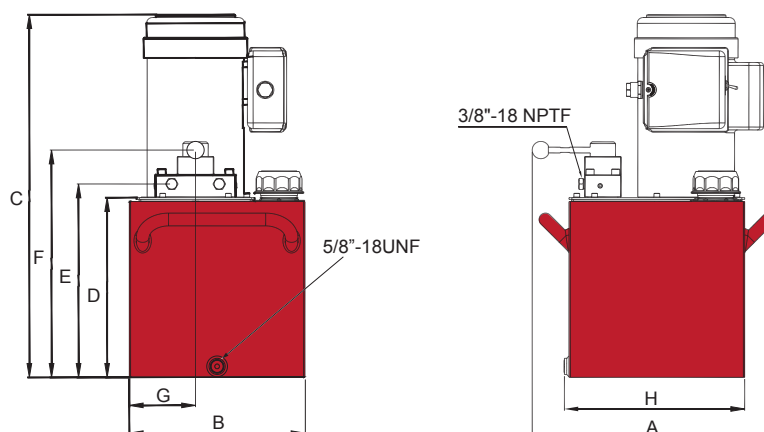
### Reservoir Sizing

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

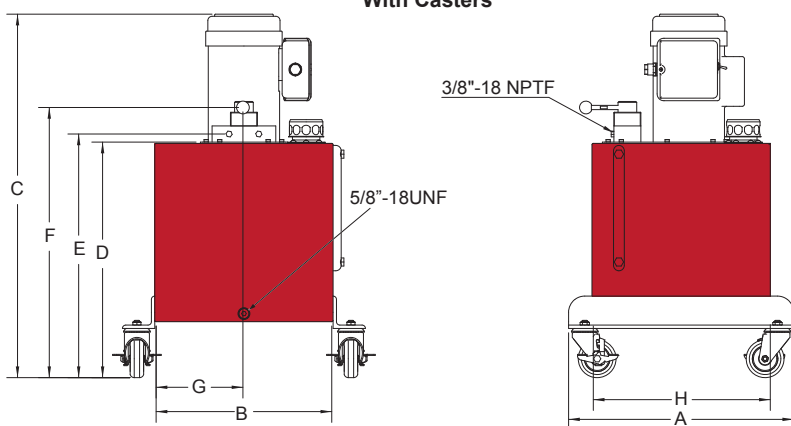
### PE30 Series



### PE40/PE50 Series



### PE40/PE50 Series With Casters



| 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.

1-888-332-6419

[www.BVAhydraulics.com](http://www.BVAhydraulics.com)

# 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 Motor Flow Valve Reservoir Voltage Pump  
Type Type Group Type/Operation Size 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)



## Ordering Example

**PE30S4L02A-A**

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

- Electric power source
- 1/2 Hp flow group
- Solenoid Valve w/Locking Plate 4W/3P
- 2 gallon reservoir tank
- External Pressure Adjustment Block



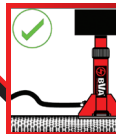
PE30S4L02A-A

## Related Product: Gauges



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

pg 69



## Safety Instructions

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

pg 92



## Related Product: Hoses

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

pg 72

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.