



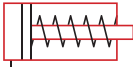
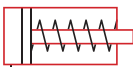
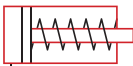
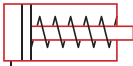
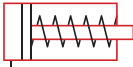
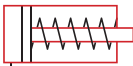
## Electric Pumps

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

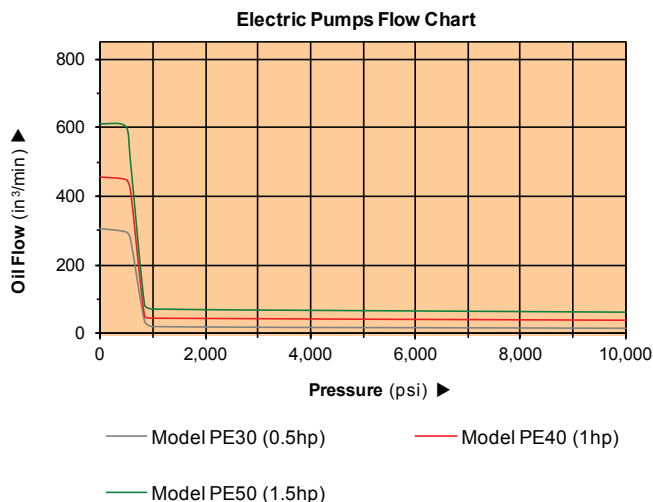
|                                                                                                 |                                     |                                                                                     |     |                       |     |               |        |
|-------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|-----|-----------------------|-----|---------------|--------|
| <br>PE50W4N03A | Use with<br>Cylinder<br>Type        | Flow Rate                                                                           |     |                       |     | Motor<br>Size |        |
|                                                                                                 |                                     | 1 <sup>st</sup> Stage                                                               |     | 2 <sup>nd</sup> Stage |     |               |        |
|                                                                                                 |                                     | in³/min                                                                             | psi | in³/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 |

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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.



#### 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

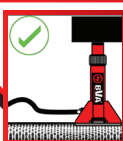
See the assortment of accessories designed to work with these pumps.

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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

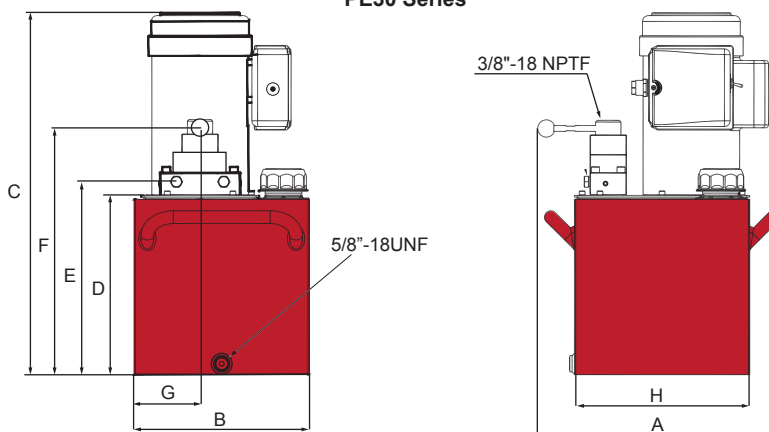
Custom pressure settings available upon request. Contact your local BVA dealer.



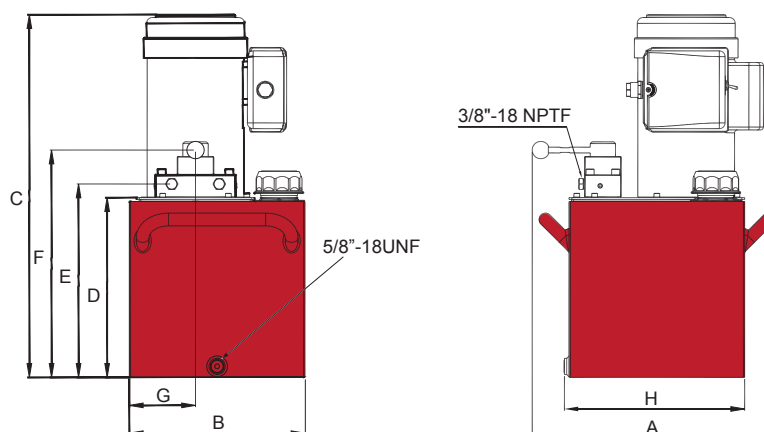
### Reservoir Sizing

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

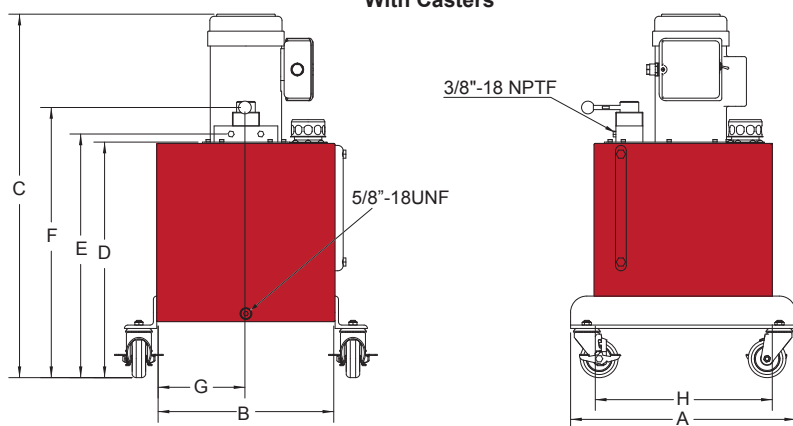
### PE30 Series



### 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.

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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 Motor Flow Valve Reservoir Voltage Pump  
Type Type Group Type/Operation Size Plug 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.

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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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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.