

▼ Shown from left to right: ZE3304MB-K, ZE4110DB-FHR



The New Standard for Industrial Applications, Z-Class



All models in the chart below are the industry's most commonly selected pump configurations. See the *Z-Class* pump ordering matrix for more options.

Page: 15

▼ SELECTION CHART *

| BASIC PUMP CONFIGURATIONS Select your ZE pump model here for most applications. For special requirements, see the ZE Pump ordering matrix. | Pump Type | Used with Cylinder | | Valve Function | | | Valve** Model Number | Useable Oil Capacity (gal) |
|---|-----------|--------------------|---|----------------|---|---|----------------------|----------------------------|
| | | | | | | | | |
| ZE-Series with Dump Valve • Ideal for punching, crimping and cutting • For use when load holding is not required • Push-button control pendant with 10 ft. cord controls the valve and motor | | • | | • | | • | VE32D | 1.0 |
| | | • | | • | | • | VE32D | 2.0 |
| | | • | | • | | • | VE32D | 5.0 |
| | | | | | | | | |
| ZE-Series with Manual Valve • Ideal choice for most applications • Manual valve control, for both single-acting or double-acting applications • Manual motor control | | • | | • | | • | VM32 | 2.0 |
| | | • | | • | | • | VM32 | 5.0 |
| | | • | | • | • | • | VM33 | 2.0 |
| | | • | | • | • | • | VM33 | 5.0 |
| | | | • | • | • | • | VM43 | 2.0 |
| | | | • | • | • | • | VM43 | 5.0 |
| ZE-Series with Solenoid Valve • Ideal for production and lifting applications • All valves are 3-position for Advance-Hold-Retract • Push-button control pendant with 10 ft. cord controls the valve and motor • Includes LCD electrical package | | • | | • | • | • | VE33 | 1.0 |
| | | • | | • | • | • | VE33 | 2.0 |
| | | • | | • | • | • | VE33 | 5.0 |
| | | | • | • | • | • | VE43 | 2.0 |
| | | | • | • | • | • | VE43 | 5.0 |
| | | | • | • | • | • | VE43 | 10.0 |

* All models in this chart are 115 VAC, 1-phase at 50/60 Hz. For other options, please refer to the ZE Pump ordering matrix on page 15.

** See Valve Section for technical information.

ZE3 & ZE4 Electric Pump Series

- Features **Z-Class** high-efficiency pump design; higher oil flow and by-pass pressure, cooler running and requires 18% less current draw than comparable pumps
- Totally enclosed, fan-cooled industrial electric motors supply extended life and stand up to harsh industrial environments
- Low-voltage pendant, on certain models, provides additional safety for the operator
- Multiple valve and reservoir configurations provide application specific models to match the most demanding industrial applications
- High-strength, molded electrical enclosure protects electronics, power supplies and LCD readout from harsh industrial environments
- LCD readout provides a number of diagnostic and readout capabilities never before offered on an industrial pump (included with electric valve models, optional on other models)

ZE3 ZE4 Series



Reservoir Capacity:
1.0 - 10 gal.

Flow at Rated Pressure:
40 - 60 in³/min

Motor Size:
1.0 - 1.5 hp

Maximum Operating Pressure:
10,000 psi



All Z-Class electric pumps are CSA and CE compliant.



Single-Stage or Two-Stage

Choose single-stage pumps for applications that require constant flow regardless of pressure, such as testing or clamping. Two-stage pumps have an increased output flow at low pressure to allow fast movement towards the load, for reduced cycle times and increased productivity.



How to Order Single-Stage Pumps

To specify a single-stage pump, place the letter "S" at the end of the model number.

For example:

ZE5320LG-S

This is a 3.0 hp ZE5 series pump with a VM33 manual valve, 5 gallon reservoir, LCD electrical box, 220 VAC, 50/60 Hz 3-phase motor and single-speed option.

| ZE3 Series (1.0 hp) Output Flow Rate at 10,000 psi: 40 in ³ /min | | | | ZE4 Series (1.5 hp) Output Flow Rate at 10,000 psi: 60 in ³ /min | | | |
|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| Standard Electric | | LCD Electric | | Standard Electric | | LCD Electric | |
| Model Number | Weight (lbs) | Model Number | Weight (lbs) | Model Number | Weight (lbs) | Model Number | Weight (lbs) |
| N/A | | ZE3104DB | 95 | N/A | | ZE4104DB | 104 |
| N/A | | ZE3108DB | 105 | N/A | | ZE4108DB | 114 |
| N/A | | ZE3120DB | 141 | N/A | | ZE4120DB | 150 |
| | | | | | | | |
| | | | | | | | |
| ZE3208MB | 96 | ZE3208LB | 101 | ZE4208MB | 104 | ZE4208LB | 110 |
| ZE3220MB | 132 | ZE3220LB | 137 | ZE4220MB | 140 | ZE4220LB | 146 |
| ZE3308MB | 97 | ZE3308LB | 103 | ZE4308MB | 105 | ZE4308LB | 111 |
| ZE3320MB | 133 | ZE3320LB | 138 | ZE4320MB | 141 | ZE4320LB | 147 |
| ZE3408MB | 97 | ZE3408LB | 103 | ZE4408MB | 106 | ZE4408LB | 111 |
| ZE3420MB | 133 | ZE3420LB | 139 | ZE4420MB | 141 | ZE4420LB | 147 |
| N/A | | ZE3304SB | 107 | N/A | | ZE4304SB | 115 |
| N/A | | ZE3308SB | 117 | N/A | | ZE4308SB | 125 |
| N/A | | ZE3320SB | 153 | N/A | | ZE4320SB | 161 |
| N/A | | ZE3408SB | 117 | N/A | | ZE4408SB | 125 |
| N/A | | ZE3420SB | 153 | N/A | | ZE4420SB | 161 |
| N/A | | ZE3440SB | 204 | N/A | | ZE4440SB | 212 |

* All models in this chart are 115 VAC, 1-phase at 50/60 Hz. For other options please refer to the ZE Pump ordering matrix on page 15.

▼ Shown from left to right: ZE6440SG-HNU, ZE5420LG



The New Standard for Industrial Applications, Z-Class



All models in the chart below are the industry's most commonly selected pump configurations. See the **Z-Class** pump ordering matrix for more options.

Page: 15

▼ SELECTION CHART *

| BASIC PUMP CONFIGURATIONS Select your ZE pump model here for most applications. For special requirements see the ZE Pump ordering matrix. | Pump Type | Used with Cylinder | | Valve Function | | | Valve** Model Number | Useable Oil Capacity (gal) | |
|--|-----------|--------------------|---|----------------|---|---|----------------------|----------------------------|--|
| | | | | | | | | | |
| ZE-Series with Dump Valve <ul style="list-style-type: none"> • Ideal for punching, crimping and cutting • For use when load holding is not required • Push-button control pendant with 10 ft. cord controls the valve and motor | | • | | • | | • | VE32D | 2.5 | |
| | | • | | • | | • | VE32D | 5.0 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ZE-Series with Manual Valve <ul style="list-style-type: none"> • Ideal choice for most applications • Manual valve control, for both single-acting or double-acting applications • Manual motor control | | • | | • | | • | VM32 | 2.5 | |
| | | • | | • | | • | VM32 | 5.0 | |
| | | • | | • | • | • | VM33 | 5.0 | |
| | | • | | • | • | • | VM33 | 10.0 | |
| | | | • | • | • | • | VM43 | 5.0 | |
| | | | • | • | • | • | VM43 | 10.0 | |
| ZE-Series with Solenoid Valve <ul style="list-style-type: none"> • Ideal for production and lifting applications • All valves are 3-position for Advance-Hold-Retract • Push-button control pendant with 10 ft. cord controls the valve and motor • Includes LCD electrical package | | • | | • | • | • | VE33 | 2.5 | |
| | | • | | • | • | • | VE33 | 5.0 | |
| | | | | • | • | • | VE43 | 2.5 | |
| | | | • | • | • | • | VE43 | 5.0 | |
| | | | • | • | • | • | VE43 | 10.0 | |
| | | | • | | | | | | |
| | | | • | | | | | | |

* All models in this chart are 220 VAC, 3-phase at 50/60 Hz. For other options please refer to the ZE Pump ordering matrix on page 15.

** Refer to Valve Section for technical information on page 12.

ZE5 & ZE6 Electric Pump Series

- Features **Z-Class** high-efficiency pump design; higher oil flow and by-pass pressure, cooler running and requires 18% less current draw than comparable pumps
- Totally enclosed, fan-cooled industrial electric motors supply extended life and stand up to harsh industrial environments
- Low-voltage pendant, on certain models, provides additional safety for the operator
- Multiple valve and reservoir configurations provide application specific models to match the most demanding industrial applications
- High-strength, molded electrical enclosure protects electronics, power supplies and LCD readout from harsh industrial environments
- LCD readout provides a number of diagnostic and readout capabilities never before offered on an industrial pump (included with electric valve models, optional on other models)

ZE5 ZE6 Series



Reservoir Capacity:
2.5 - 10 gal.

Flow at Rated Pressure:
120 - 200 in³/min

Motor Size:
3.0 - 7.5 hp

Maximum Operating Pressure:
10,000 psi



All Z-Class electric pumps are CSA and CE compliant.



Single-Stage or Two-Stage

Choose single-stage pumps for applications that require constant flow regardless of pressure, such as testing or clamping.

Two-stage pumps have an increased output flow at low pressure to allow fast movement towards the load, for reduced cycle times and increased productivity.



How to Order Single-Stage Pumps

To specify a single-stage pump, place the letter "S" at the end of the model number.

For example:

ZE5320LG-S

This is a 3.0 hp ZE5 series pump with a VM33 manual valve, 5 gallon reservoir, LCD electrical box, 220 VAC, 50/60 Hz 3-phase motor and single-speed option.

| ZE5 Series (3.0 hp) Output Flow Rate at 10,000 psi: 120 in ³ /min | | | | ZE6 Series (7.5 hp) Output Flow Rate at 10,000 psi: 200 in ³ /min | | | |
|--|--------------|--------------|--------------|--|--------------|--------------|--------------|
| Standard Electric*** | | LCD Electric | | Standard Electric*** | | LCD Electric | |
| Model Number | Weight (lbs) | Model Number | Weight (lbs) | Model Number | Weight (lbs) | Model Number | Weight (lbs) |
| N/A | | ZE5110DG | 136 | N/A | | ZE6110DG | 176 |
| N/A | | ZE5120DG | 163 | N/A | | ZE6120DG | 203 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ZE5210MG | 124 | ZE5210LG | 132 | ZE6210MG | 164 | ZE6210LG | 172 |
| ZE5220MG | 151 | ZE5220LG | 159 | ZE6220MG | 191 | ZE6220LG | 199 |
| ZE5320MG | 152 | ZE5320LG | 160 | ZE6320MG | 192 | ZE6320LG | 200 |
| ZE5340MG | 203 | ZE5340LG | 210 | ZE6340MG | 243 | ZE6340LG | 250 |
| ZE5420MG | 152 | ZE5420LG | 160 | ZE6420MG | 192 | ZE6420LG | 200 |
| ZE5440MG | 203 | ZE5440LG | 210 | ZE6440MG | 243 | ZE6440LG | 251 |
| N/A | | ZE5310SG | 147 | N/A | | ZE6310SG | 188 |
| N/A | | ZE5320SG | 174 | N/A | | ZE6320SG | 214 |
| N/A | | ZE5410SG | 147 | N/A | | ZE6410SG | 188 |
| N/A | | ZE5420SG | 174 | N/A | | ZE6420SG | 214 |
| N/A | | ZE5440SG | 225 | N/A | | ZE6440SG | 265 |

* All models in this chart are 220 VAC, 3-phase at 50/60 Hz. For other options please refer to the ZE Pump ordering matrix on page 15.

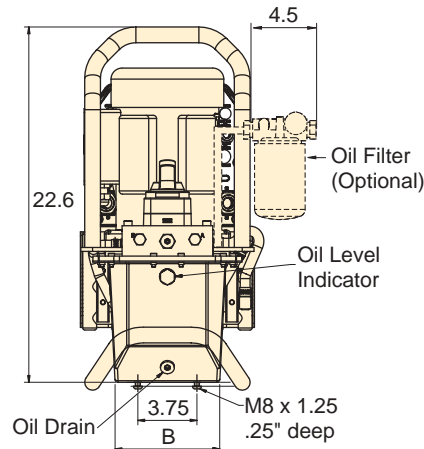
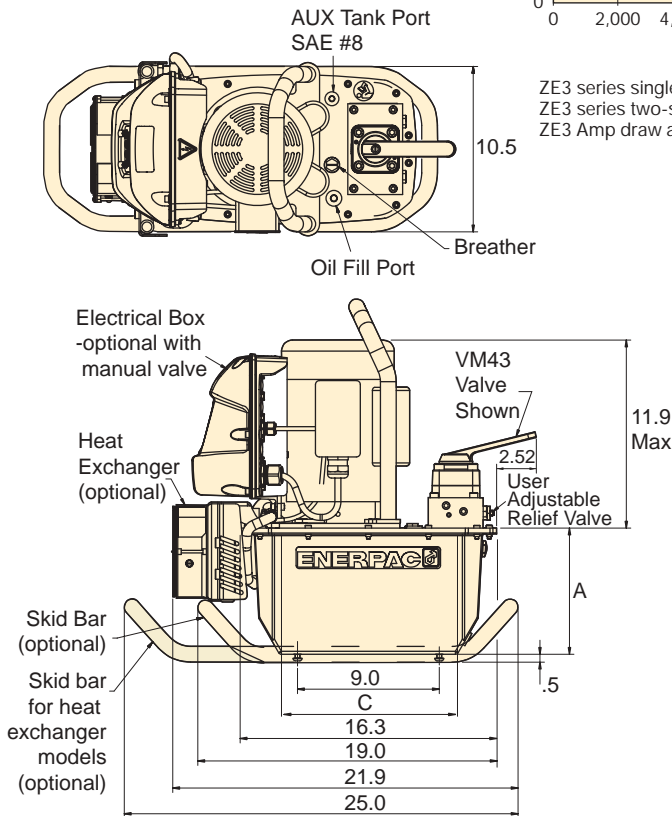
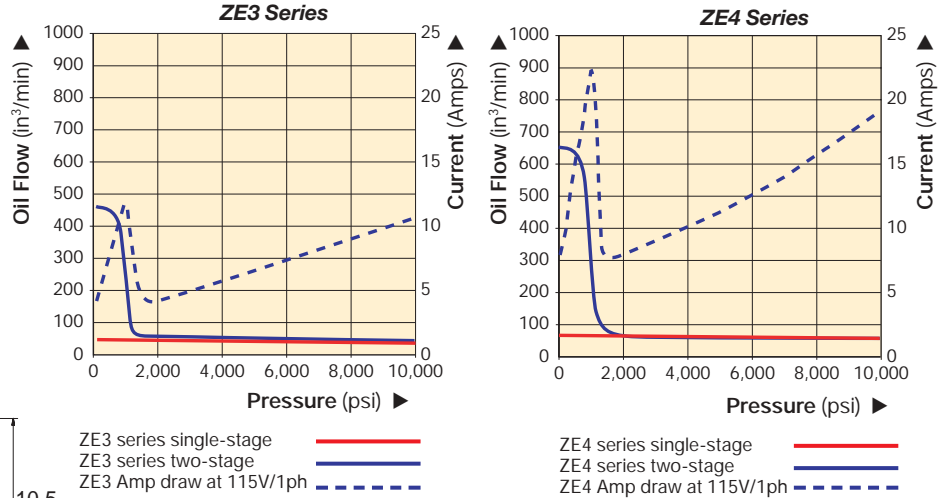
*** Standard Electric models with 3-phase motors are shipped without cord, motor starter or overload protection.

▼ PERFORMANCE CHART

| ZE Pump Series | Operation | Output Flow Rate (in ³ /min) | | | | Motor Size | | Relief Valve Adjustment Range (psi) | Sound Level (dBA) |
|----------------|--------------|--|---------|-----------|------------|------------|------|-------------------------------------|-------------------|
| | | 100 psi | 700 psi | 5,000 psi | 10,000 psi | hp | RPM | | |
| 3 | Single-stage | 43 | 43 | 42 | 40 | 1.0 | 1750 | 1000 - 10,000 | 75 |
| | Two-stage | 450 | 385 | 42 | 40 | | | | |
| 4 | Single-stage | 64 | 64 | 62 | 60 | 1.5 | 1750 | 1000 - 10,000 | 75 |
| | Two-stage | 650 | 600 | 62 | 60 | | | | |

Output flow rate is listed at 60 Hz.
Flow rate will be approximately 5/6 of these values at 50 Hz.

▼ FLOW CHARTS



| Useable Oil Capacity (gal) | Dimensions ZE series (in) | | | Weight (lbs) | |
|----------------------------|---------------------------|-----|------|--------------|-----|
| | A | B | C | ZE3 | ZE4 |
| 1.0 | 5.6 | 6.0 | 11.0 | 86 | 94 |
| 2.0 | 8.0 | 6.6 | 11.3 | 96 | 105 |



Reservoir information

One and two gallon reservoirs are only available with ZE3 and ZE4 series pumps. 2.5, 5 and 10 gallon reservoirs are available on all sizes of ZE series pumps.

Pump weights are shown with LCD electric, no valves and no accessories

ZE5 & ZE6 Electric Pump Series

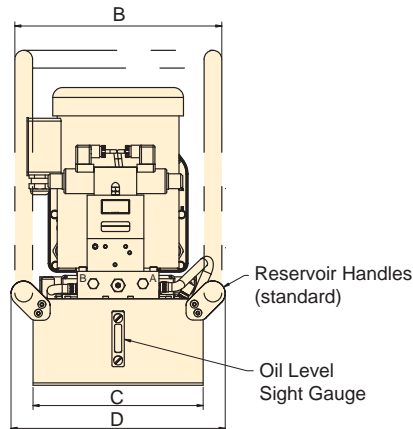
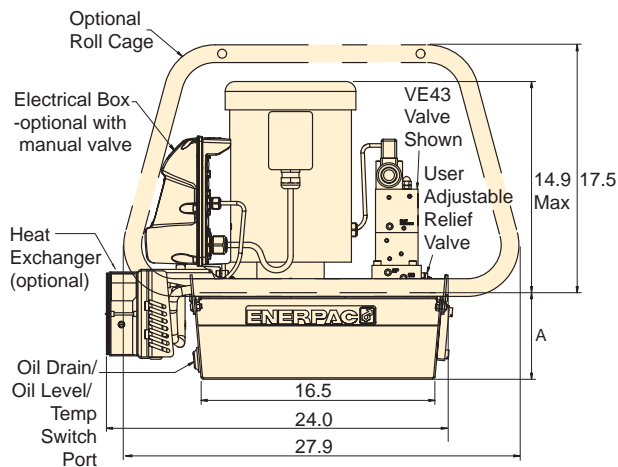
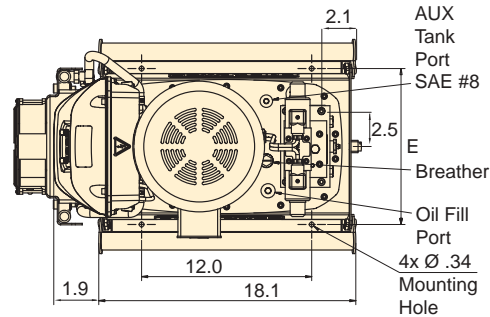
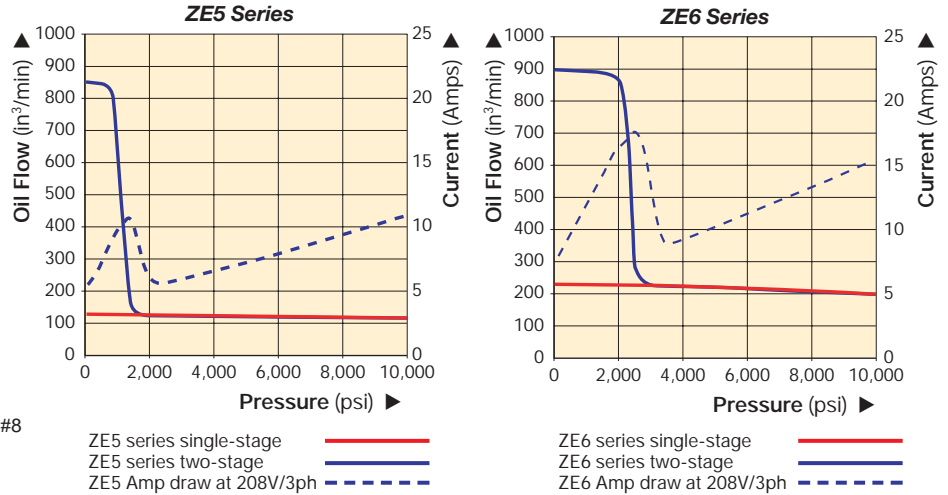
▼ PERFORMANCE CHART

| ZE Pump Series | Operation | Output Flow Rate (in ³ /min) | | | | Motor Size | | Relief Valve Adjustment Range (psi) | Sound Level (dBA) |
|----------------|--------------|--|---------|-----------|------------|------------|------|-------------------------------------|-------------------|
| | | 100 psi | 700 psi | 5,000 psi | 10,000 psi | hp | RPM | | |
| 5 | Single-stage | 128 | 126 | 123 | 120 | 3.0 | 1750 | 1000 - 10,000 | 75 |
| | Two-stage | 850 | 825 | 123 | 120 | | | | |
| 6 | Single-stage | 220 | 215 | 210 | 200 | 7.5 | 3450 | 1000 - 10,000 | 80 |
| | Two-stage | 900 | 890 | 210 | 200 | | | | |

Output flow rate is listed at 60 Hz.

Flow rate will be approximately 5/6 of these values at 50 Hz.

▼ FLOW CHARTS



| Useable Oil Capacity (gal) | Dimensions ZE series (in) | | | | | Weight (lbs) | | | |
|----------------------------|---------------------------|------|------|------|------|--------------|-----|-----|-----|
| | A | B | C | D | E | ZE3 | ZE4 | ZE5 | ZE6 |
| 2.5 | 6.1 | 14.6 | 12.0 | 15.1 | 11.0 | 106 | 114 | 127 | 167 |
| 5.0 | 7.1 | 19.2 | 16.6 | 19.7 | 15.6 | 132 | 141 | 154 | 194 |
| 10.0 | 10.6 | 22.5 | 19.9 | 22.7 | 18.9 | 183 | 191 | 204 | 244 |

Pump weights are shown with LCD electric, no valves and no accessories.

▼ Shown: ZPF mounted on ZE4110DB-FHR



ZPF Series



Filtration:
25 micron

Maximum Operating Pressure:
200 psi



ZPF-Series

The oil filter kit removes contaminants from the return oil flow before allowing it back into the reservoir, reducing component damage created by oil borne contaminants.



PF25 Replacement Filter Element

For best performance, replace filter element regularly.

ZPF Series Return Line Filter

- Extends life of hydraulic components and increases system reliability
- 25 micron nominal return line filter cleans oil to increase system life
- Internal by-pass valve to prevent damage if the filter is dirty
- Kit assembles quickly and easily to Enerpac **Z-Class** pumps
- Replaceable filter element
- Maintenance indicator included
- A variety of installation hardware included

| Nominal Filtration | Model Number | Maximum Pressure | Maximum Oil Flow | By-pass Setting | Replace-ment Filter Element | Weight |
|--------------------|--------------|------------------|------------------|-----------------|-----------------------------|--------|
| (micron) | | (psi) | (GPM) | (psi) | | (lbs) |
| 25 | ZPF | 200 | 12.0 | 25 | PF25 | 3.2 |

▼ Shown: ZHE-E10 mounted on ZE6440SG-HNU



ZHE Series



Transfer:
900 Btu/h

Maximum Operating Pressure:
300 psi



HE-Series

Heat exchanger removes heat from the bypass oil to provide cooler operation. This stabilizes oil viscosity, increases pump life and reduces wear of other hydraulic components.



Do not exceed maximum flow and pressure ratings. Heat exchanger is not suitable for water-glycol or high water-based fluids.

ZHE Series Heat Exchanger

- Extends system life
- All installation components included
- Stabilizes oil temperature at a maximum of 130° F at 70° F ambient temperature
- Stabilizes oil viscosity, increasing oil life and reduces wear of pump and other hydraulic components

| Voltage | Model Number | Reservoir Size | Thermal Transfer** | Amperage Draw | Maximum Pressure | Maximum Oil Flow | Weight |
|---------|--------------|----------------|--------------------|---------------|------------------|------------------|--------|
| | | (Gal.) | (Btu/h) | (Amps) | (psi) | (GPM) | (lbs) |
| 24 VDC | ZHE-E04 | 1, 2 | 900 | .95 | 300 | 7.0 | 9.0 |
| | ZHE-E10 | 2.5, 5, 10 | | | | | |

** At 0.5 GPM

▼ Shown: ZLS-U4 mounted on ZE3410SG-HL



ZLS Series Oil Level/ Temperature Switch

- Ensures feedback on pump oil level and temperature
- Drop-in design allows for easy installation to pump reservoir
- Plugs directly into pump electrical enclosure
- Built-in thermal sensing shuts off pump when unsafe operating temperature is reached
- Oil level switch shuts down pump before oil reaches an unsafe operating level

▼ Shown: ZPT-U4 mounted on ZE4110DB-FHRT



ZPT Series Electronic Pressure Transducer

- Controls pump and monitors system
- More durable than analog gauges (against mechanical and hydraulic shock)
- More accurate than analog gauges (0.5% full scale of pump)
- Calibration can be fine tuned for certification
- "Auto-mode" provides automatic pressure control
- Display pressure in psi, bar, or MPa

ZLS Series



Temperature/Switchpoint:

175° F

Voltage:

24 VAC / DC



ZLS Series Level/ Temperature Switch

Oil level indicator for pump reservoir. If the pump is mounted in a remote area that does not provide visual access to the external oil level sight glass, the level switch provides a signal to turn off the pump before internal damage can occur due to cavitation.

| Fixed Temperature Signal (°F) | Voltage | Model Number | Operating Temperature (°F) | Thermostat Rating (Amps) | Maximum Pressure (psi) | Weight (lbs) |
|-------------------------------|-----------|--------------|----------------------------|--------------------------|------------------------|--------------|
| 175 | 24 VAC/DC | ZLS-U4 | 40-230 | 2.6 | 150 | 0.11 |

ZPS-ZPT Series



Pressure Range:

50 - 10,000 psi



ZPT Series

The pressure transducer is factory installed in the "A" port on pumps supplied with valves, and in the system port on all other configurations.



ZPT-U4 transducer can control motor or valve solenoid functions. ZPS-E3 pressure switch will only control motor function.

| Adjustable Pressure Range (psi) | Model Number | Electrical Specification | Deadband (psi) | Switchpoint Repeatability | Oil Ports | Weight (psi) |
|---------------------------------|--------------|--------------------------|----------------|---------------------------|-----------|--------------|
| 50-10,000 | ZPT-U4 | 4-20 mA | 50 | ± 0.5% | 1/4" NPTF | .3 |
| 500-10,000 | ZPS-E3* | 24 VAC/DC | 115-550 | ± 2% | 3/8" NPTF | 2.7 |

* Includes 15,000 psi gauge

▼ Shown from left to right: VM32, VE33, VM33, VM43L, VE43-115



- Advance/Retract and Advance/Retract/Retract operation of single-acting and double-acting cylinders
- Manual or solenoid operation
- Pump mounting will retrofit on most Enerpac pumps
- Available “locking” option on VM Series valves for load-holding applications
- Standard “locking” feature on VE Series 3-position valves

▼ ZE4420SB-FH Z-Class pump is mounted next to an Enerpac H-frame press, includes VE43 electric valve to control cylinder operation.



For Reliable Control of Single and Double-Acting Cylinders

| Valve Operation | Used with Cylinder | Valve Type | |
|------------------|--------------------|------------------------------------|--|
| Manual | Single-acting | 2 Position | |
| Manual | Single-acting | 3 Position, Tandem Center | |
| Manual | Double-acting | 3 Position, Tandem Center | |
| Manual | Single-acting | 3 Position, Tandem Center, Locking | |
| Manual | Double-acting | 3 Position, Tandem Center, Locking | |
| Solenoid 24 VDC | Single-acting | 2 Position, Dump | |
| Solenoid 24 VDC | Single-acting | 3 Position, Tandem Center | |
| Solenoid 115 VAC | Single-acting | 3 Position, Tandem Center | |
| Solenoid 24 VDC | Double-acting | 3 Position, Tandem Center | |
| Solenoid 115 VAC | Double-acting | 3 Position, Tandem Center | |



About the VM/VE Series

Enerpac's new line of VM and VE series valves include several new features and design improvements over competitive models.

All valves feature several gauge ports for "system", A port and B port pressure monitoring. User adjustable relief valves are included on all models to allow the operator to easily set the optimum working pressure for each application. VM33 and VE43 valves include "System Check" feature, for more precise pressure holding and improved system control. The VM33 has improved porting which provides faster cylinder retraction while motor is running.

All of the features make it easy to see that Enerpac is the only choice for high pressure hydraulic pumps and valves.

VM and VE Series



Flow Capacity:

4.5 gal./min.

Maximum Operating Pressure:

10,000 psi



Push-Button Control Station

VE33-115 and VE43-115 electric valves are supplied with IC400 control station. These valves include an 8 ft. power cord, and can be used on any Enerpac pump. They require a separate 115 volt power supply to operate.

| Model Number | Hydraulic Symbol | Schematic Flowpath | | | Weight (lbs) |
|--------------|------------------|--------------------|------|---------|--------------|
| | | Advance | Hold | Retract | |
| VM32 | | | | | 5.6 |
| VM33 | | | | | 6.7 |
| VM43 | | | | | 6.8 |
| VM33L | | | | | 10.7 |
| VM43L | | | | | 10.8 |
| VE32D | | | | | 8.7 |
| VE33 | | | | | 20.3 |
| VE33-115 | | | | | 20.3 |
| VE43 | | | | | 20.3 |
| VE43-115 | | | | | 20.3 |

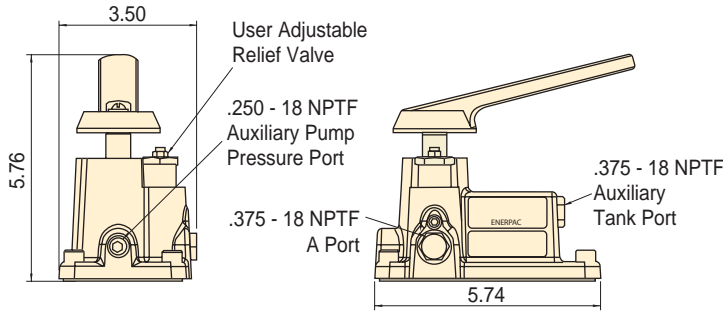


Locking Valves

For applications that require positive load holding, VM Series valves (except the VM32 valve) are available with a pilot-operated check valve. This option provides hydraulic locking of the load until the valve is shifted into the retract position.

To order this feature, place an "L" at the end of the model number.

Valve dimensions in inches



VM32

VM and VE Series

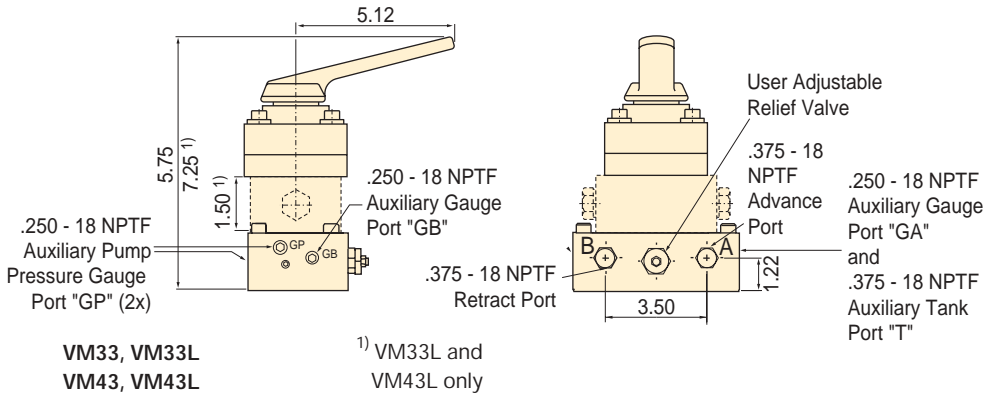


Flow Capacity:

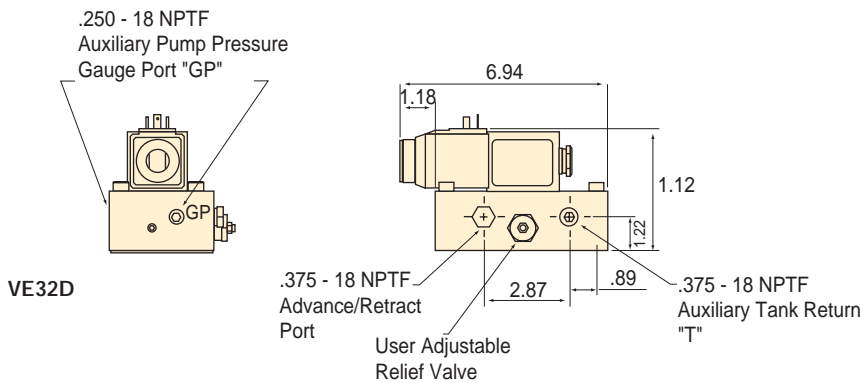
4.5 gal./min.

Maximum Operating Pressure:

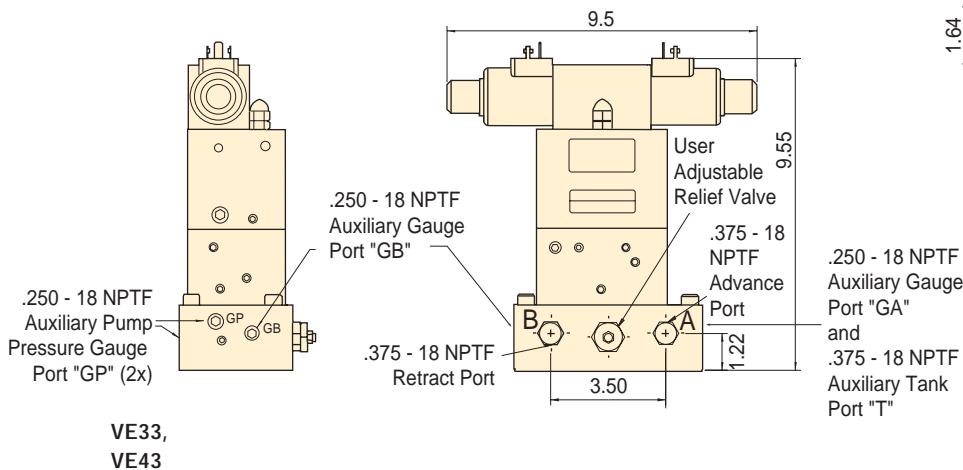
10,000 psi



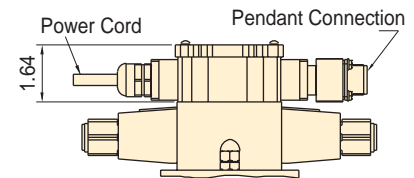
VM33, VM33L
VM43, VM43L



VE32D



VE33,
VE43



VE33-115
VE43-115

ZE Electric Pump Ordering Matrix

CUSTOM BUILD YOUR ZE SERIES PUMP

If the ZE Series pump that would best fit your application cannot be found in the chart on pages 4 through 7, you can easily build your custom ZE Series pump here.

▼ This is how a ZE Series Pump model is built up:

| | | | | | | | | | | | |
|--------------|------------|------------|------------|----------------------|-----------------|----------|----------|----------|----------|----------|----------|
| Z | E | 4 | 4 | 20 | L | B | - | F | H | L | T |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 8 | 8 | 8 |
| Product Type | Motor Type | Flow Group | Valve Type | Useable Oil Capacity | Valve Operation | Voltage | | Options | Options | Options | Options |

1 Product Type

Z = Pump Class

2 Prime movers

E = Induction Electric Motor

3 Flow Group

- 3** = 40 in³/min @ 10,000 psi
- 4** = 60 in³/min @ 10,000 psi
- 5** = 120 in³/min @ 10,000 psi¹⁾
- 6** = 200 in³/min @ 10,000 psi¹⁾

4 Valve Types

- 0** = No valve w/coverplate
- 1** = Dump (VE32D)
- 2** = 3 way/2 position manual (VM32)
- 3** = 3 way/3 position manual or electric (VM33 or VE33)
- 4** = 4 way/3 position manual or electric (VM43 or VE43)
- 6** = 3 way/3 position locking manual w/po check (VM33L)
- 8** = 4 way/3 position locking manual w/po check (VM43L)

5 Useable Oil Capacity

- 04** = 1.0 gallon²⁾
- 08** = 2.0 gallon²⁾
- 10** = 2.5 gallon
- 20** = 5.0 gallon
- 40** = 10.0 gallon

8 Options (specify in alphabetical order)

- | | |
|---|---|
| F = Filter | P = Pressure switch ⁴⁾ |
| G = 0-15,000 psi Gauge (2 1/2" ⁷⁾ | R = Roll bar |
| H = Heat Exchanger ⁴⁾ | S = Single stage |
| K = Skidbar (1 and 2 gal. reservoirs only) | T = Pressure transducer ^{4) 7)} |
| L = Level/temp switch ^{4) 5)} | U = Foot switch ⁴⁾ |
| N = No reservoir handles (includes lifting eyes) | |

- 1) ZE5 and ZE6 series pumps only available with 3-phase motors.
- 2) 1 and 2 gallon reservoirs only available on ZE3 and ZE4 series pumps.
- 3) 115 volt pumps are supplied with CE and CSA approved 15 amp plug for intermittent use. 20 A circuit recommended for frequent full pressure use.
- 4) These options require LCD electrical package. Pressure switch option only available on manual valves without locking valve. The LCD electrical package can accept either a pressure switch or pressure transducer, but not both.
- 5) Not available with 1 and 2 gallon reservoirs.
- 6) Standard Electric models with 3-phase motors are shipped without cord, motor starter or overload protection.
- 7) Pressure gauge not available on pump models with pressure transducer. Pressure transducer provides digital pressure readout on LCD display.

ZE Series



Reservoir Capacity:

1 - 10 gal.

Flow at Rated Pressure:

40 - 200 in³/min.

Motor Size:

1.0 - 7.5 hp

Maximum Operating Pressure:

10,000 psi



Ordering Example 1

Model Number: ZE4420MB

ZE4420MB is a 60 in³/min, 10,000 psi pump with a 4 way, 3-position manual valve, a 5 gallon reservoir, operates on a 115 VAC 1 ph 50/60 Hz motor and includes standard electrical package.

Ordering Example 2

Model Number: ZE6440SG-HNU

ZE6440SG-HNU is a 200 in³/min, 10,000 psi pump with a 4 way, 3-position electric valve, a 10 gallon reservoir, operates on a 230 VAC 3 ph 50/60 Hz motor. It includes LCD electrical package and foot switch on 10 ft cord, no reservoir handles and the optional heat exchanger.

▼ ZE6440SG-HNU pump as described in ordering example 2.

