



## Electric Box <sup>1)</sup>

- Back-lit LCD
- Pump usage information, hour and cycle counts
- Low-voltage warning and recording
- Self-test and diagnostic capabilities
- Pressure read-out <sup>2)</sup>
- Auto-mode pressure setting <sup>2)</sup>
- Information can be displayed in six languages <sup>3)</sup>

<sup>1)</sup> Included on pumps with solenoid valves. Can be factory installed on pumps with manual valve

<sup>2)</sup> When used with optional pressure transducer

<sup>3)</sup> English, French, German, Italian, Spanish and Portuguese



## Level/Temperature Switch <sup>4)</sup>

- Shuts down pump before oil level reaches an unsafe level, avoiding damage due to cavitation
- Shuts down pump when unsafe oil temperature is reached
- Ideal if pump is used in remote area without visual access to oil level

<sup>4)</sup> 24 V, requires Electric Box. Available for 2.5, 5 and 10 gallon reservoirs

Accessory Kit Model Number	Fixed Temperature Signal (°F)	Operating Temperature (°F)	Max. Pressure (psi)
ZLS-U4 *	75	40 - 230	150

\* Add suffix **L** for factory installation, see ordering matrix.



## Return Line Filter

- 25 micron nominal filter removes contaminants from return oil flow before allowing it back into tank
- Internal by-pass valve prevents damage if filter is dirty
- With maintenance indicator
- Replaceable filter element PF25

Accessory Kit Model Number	Maximum Pressure (psi)	Maximum Oil Flow (GPM)	By-pass Setting (psi)
ZPF *	200	12.0	25

\* Add suffix **F** for factory installation, see ordering matrix.



## Roll Cage

- For easy portability and hoisting
- Protects pump and electric box
- Available for all reservoir sizes

Accessory Kit Number	Fits on Reservoir
ZRC-04 *	1 and 2 gallon <sup>1)</sup>
ZRC-04H *	1 and 2 gallon <sup>2)</sup>
ZRB-10 *	2.5 gallon
ZRB-20 *	5 gallon
ZRB-40 *	10 gallon

\* Add suffix **R** for factory installation, see ordering matrix.  
<sup>1)</sup> Without heat exchanger <sup>2)</sup> With heat exchanger



## Skid Bar

- Provides easy two-hand lift
- Provides greater pump stability on soft or uneven surfaces

Accessory Kit Number	For ZE-Series Pumps with Reservoir	Weight (lbs)
SBZ-4 *	1-2 gal. w/o heat exchanger	4.9
SBZ-4L *	1-2 gal. with heat exchanger	5.5

\* 1 and 2 gallon reservoirs only. Add suffix **K** for factory installation, see ordering matrix.



## Foot Switch <sup>5)</sup>

- Hands-free remote control on solenoid dump and 3-position valves
- With 10 foot cord

<sup>5)</sup> 15 V, requires Electric Box

Accessory Kit Number	Can be used on ZE-Series Pumps with
ZCF-2 *	Solenoid VE-Series valves

\* Add suffix **U** for factory installation, see ordering matrix.

# ZE-Series, Factory Installed Options & Accessories



## Pressure Transducer <sup>1)</sup>

- Displays pressure on LCD in bar, MPa or psi
- More accurate than analog gauge
- Calibration can be fine-tuned for certification
- Easy-viewing variable rate display
- “Set pressure” feature turns off motor at user defined pressure (or shifts valve to neutral on models with VE33/ VE43 valves)

<sup>1)</sup> 24 V, requires Electric Box

Accessory Kit Model number	Adjustable Pressure Range (psi)	Switch-point Repeat-ability	Dead-band (psi)
ZPT-U4 *	50-10,000	± 0,5%	50

\* Add suffix **T** for factory installation, see ordering matrix.



## Pendants <sup>3)</sup>

- For pump types with valve operation “W” (No Valve, with Electric Box, without pendant)

<sup>3)</sup> When ordering Enerpac VE-Series solenoid valve, the pendant must be ordered separately. Pendant connection to be plugged into electric box

Pendant Model Number	To be used with Solenoid Valve:
ZCP-1	VE32D
ZCP-3	VE32, VE33, VE43



## Pressure Switch <sup>2)</sup>

- Controls pump, monitors system
- Adjustable pressure 500-10,000 psi
- Includes glycerine filled 15,000 psi pressure gauge G2536L
- Accuracy ± 1,5% of full scale

<sup>2)</sup> 24 V, requires Electric Box. Not available in combination with pressure transducer.

Accessory Kit Model number	Switch-point Repeat-ability	Deadband (psi)	Oil Ports (NPT)
ZPS-E3 *	± 2%	115-550	3/8"

\* Add suffix **P** for factory installation, see ordering matrix.



## Heat Exchanger <sup>4)</sup>

- Removes heat from bypass oil to provide cooler operation
- Stabilizes oil viscosity, increasing oil life and reduces wear of pump and other hydraulic components.

<sup>4)</sup> 24 VDC, requires electric box

Accessory Kit Model number	Fits on Reservoir	Weight (lbs)
ZHE-E04 *	1 and 2 gallon	9.0
ZHE-E10 *	2.5, 5, and 10 gallon	9.0

\* Add suffix **H** for factory installation, see ordering matrix.



## Options

Accessory Kits can be installed by customer. See chart below for options on Standard Electric (without electric box) or LCD Electric (with electric box). Refer to page 87 for ordering matrix.

ZE-Series Options	Factory Installed		Accessory Kits	
	Std. Electr.	LCD Electr.	Std. Electr.	LCD Electr.
Return Line Filter	F	F	ZPF	ZPF
Skid Bar <sup>1)</sup>	K	K	SBZ	SBZ
Roll Cage	R	R	ZRB	ZRB
Single-stage	S	S	–	–
Heat Exchanger	–	H	–	ZHE
Pressure Gauge <sup>2)</sup>	G	G	–	–
Pressure Switch <sup>3)</sup>	–	P	–	ZPS-E3
Pressure Transducer <sup>4)</sup>	–	T	–	ZPT-U4
Level/Temp Switch <sup>5)</sup>	–	L	–	ZLS-U4
Foot Switch <sup>6)</sup>	–	U	–	ZCF-2

<sup>1)</sup> Available for 1 and 2 gallon reservoirs.

<sup>2)</sup> Not available on pumps with pressure transducer.

<sup>3)</sup> Includes 14,500 psi gauge. Only available on manual valves without locking feature.

<sup>4)</sup> Electric box can accept either pressure switch or pressure transducer, but not both.

<sup>5)</sup> Available for 2.5, 5, 10, gallon reservoirs.

<sup>6)</sup> For control of solenoid dump and 3-position valves.



## ZPT-U4 Pressure Transducer

More durable against mechanical and hydraulic shock than analog gauges.

- Digital pressure read-out provides accuracy of 5% of full scale.
- Easy-viewing variable rate display automatically varies increments between 44, 203, 508 and 2103 psi as rate of pressure change increases.
- “Set pressure” feature turns off motor at user defined pressure (or shifts valve to neutral on VE33 and VE43 valves).



## ZHE-Series Heat Exchangers

Heat exchanger stabilizes oil temperature at 130° F at 70° F ambient temperature. Thermal transfer at 5 GPM and 70° F ambient temperature: 900 Btu/hour.

Do not exceed maximum oil flow of 7.0 GPM and maximum pressure of 300 psi. Not suitable for water-glycol or high water based fluids.