Electric submerged pumps

Shown: WEM-1401E

WE-series

Enerpac two stage electric submerged pumps are a quiet, economical workholding power source. Submerged in oil the motor stays cooler when used on an intermittent basis.

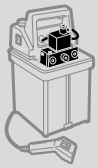
Best performance for mid-range cylinders

- Reduce cycle times for improved productivity
- Two-speed pump unit provides rapid cylinder advance
- Submerged dual voltage induction motor, runs cooler and quieter (60-70 dBA)
- Available with heat exchanger for higher duty cycle applications
- Externally adjustable relief valve – no need to open pump when reducing pressure
- Reservoir mounting holes for easy mounting to fixed surface
- Full length side tube for easy monitoring of oil level
- Auxiliary return port, eliminates the need for a separate adapter.

Select your pump type

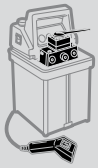
WED-series with dump valve

- For use when load holding is not required
- Ideal for palletized workholding for single acting circuits
- Motor is on only during work cycle.



WEJ-series with remote jog

- Manual valve control
- Motor can be turned on and off by remote pendant for jogging capability.

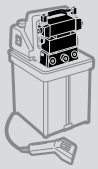


WEM-series with manual valve

- Manual valve control
- Manual motor control
- Simple and economical solution to your workholding power source needs.

WER-series with remote actuated solenoid

- Solenoid directional with shear seal design
- Remote valve operation.



WES, WET-series with pressure switch *

- Pressure switch turns motor on and off
- Used when pressure must be maintained over a period of time
- With pressure gauge.

* Pressure switch specifications: Classification NEMA 1
Pressure range: IC-51: 207-517 bar
IC-31: 35-241 bar.

Flow: 0,65 l/min

Pressure: 350 bar max

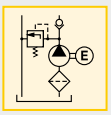
Motor: 0,37 kW

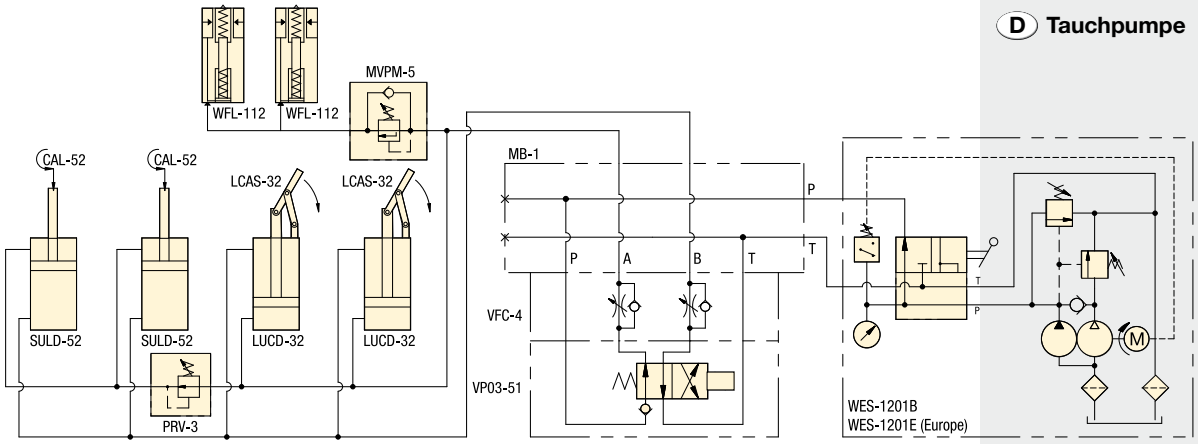
Reservoir: 5,7 litres

(E) Bombas eléctricas

(F) Centrale hydraulique

(D) Tauchpumpe





Used with cylinder	Valve function	Valve type	Model number	Motor voltage 50/60 Hz	Heat exchanger
Single-Acting	Advance / Retract	Dump	**WED-1101B**	115V	
Single-Acting	Advance / Retract	Dump	**WED-1101E**	230V	
Single-Acting	Advance / Retract	Jog	**WEJ-1201B**	115V	
Single-Acting	Adv. / Hold / Retr.	Jog	**WEJ-1301B**	115V	
Double-Acting	Adv. / Hold / Retr.	Jog	**WEJ-1401B**	115V	
Single-Acting	Advance / Retract	Manual 3/2	**WEM-1201B**	115V	
Single-Acting	Advance / Retract	Manual 3/2	**WEM-1201D**	115V	●
Single-Acting	Advance / Retract	Manual 3/2	**WEM-1201E**	230V	
Single-Acting	Advance / Retract	Manual 3/2	**WEM-1201F**	230V	●
Single-Acting	Adv. / Hold / Retr.	Manual 3/3	**WEM-1301B**	115V	
Single-Acting	Adv. / Hold / Retr.	Manual 3/3	**WEM-1301F**	230V	●
Double-Acting	Adv. / Hold / Retr.	Manual 4/3	**WEM-1401D**	115V	●
Double-Acting	Adv. / Hold / Retr.	Manual 4/3	**WEM-1401E**	230V	
Single-Acting	Adv. / Hold / Retr.	Solenoid	**WER-1301B**	115V	
Single-Acting	Adv. / Hold / Retr.	Solenoid	**WER-1301D**	115V	●
Single-Acting	Adv. / Hold / Retr.	Solenoid	**WER-1301E**	230V	
Double-Acting	Adv. / Hold / Retr.	Solenoid	**WER-1401B**	115V	
Double-Acting	Adv. / Hold / Retr.	Solenoid	**WER-1401D**	115V	●
Double-Acting	Adv. / Hold / Retr.	Solenoid	**WER-1401F**	230V	●
Single-Acting	Advance / Retract	Manual 3/2	**WES-1201B**	115V	
Single-Acting	Advance / Retract	Manual 3/2	**WET-1201B**	115V	
Single-Acting	Adv. / Hold / Retr.	Manual 3/3	**WES-1301B**	115V	
Single-Acting	Adv. / Hold / Retr.	Manual 3/3	**WES-1301E**	230V	
Double-Acting	Adv. / Hold / Retr.	Manual 4/3	**WES-1401B**	115V	
Double-Acting	Adv. / Hold / Retr.	Manual 4/3	**WES-1401E**	230V	

Options

G-series pressure gauges 190

FL-series high-pressure filters 193

FZ-series fittings 194

HF-series hydraulic oil 193

Important

Oil should be replaced every 500 working hours to ensure long life. Change filters when changing oil or 4 times a year whichever comes first.

Heat exchanger cools oil in pumps used in higher duty cycle applications.

Output flow rate should be matched to hydraulic components used in the system.

WE-series, Submerged Electric Pumps

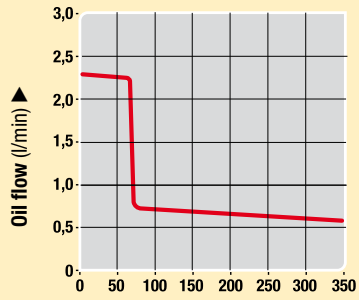
Shown: WEM-1401E

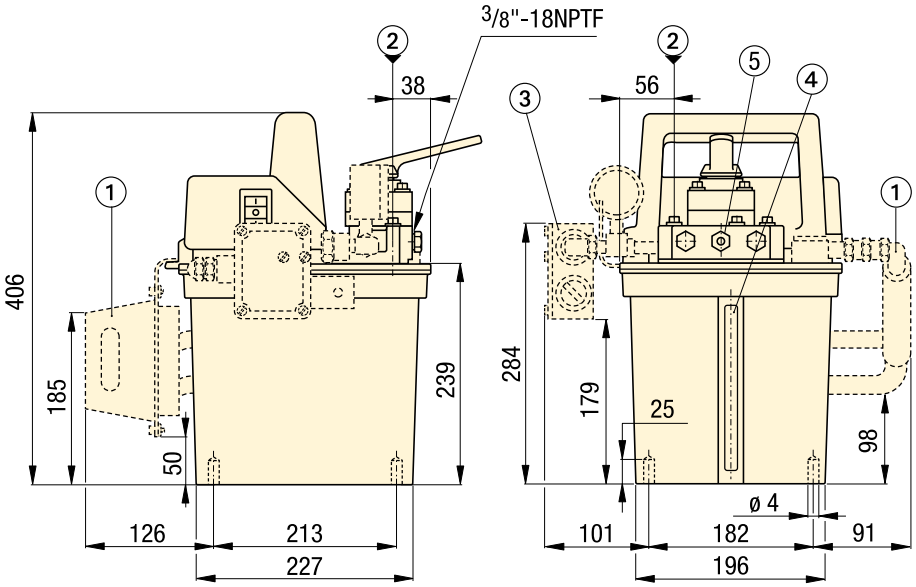
◀ For full features see page 110.

WER series

Enerpac submerged motor pumps are available in a wide range of configurations to fit any requirement.

WE-series – Oil flow *vs* pressure





Dimensions shown in mm.

① Heat Exchanger (optional for all models)
② Fill Port
③ Pressure Switch (WES-Series, optional for other models)
④ Oil Level Indicator
⑤ Adjustable Relief Valve

Product selection

Motor voltage	Motor capacity	Amperage draw	Maximum oil flow** l/min		Pressure rating bar		Usable oil capacity	Adjustable relief valve	
50/60 Hz	kW	Amps	1st stage	2nd stage	1st stage	2nd stage	litres	bar	kg
115V-1ph	0,37	13,5	2,45	0,65	70	350	5,5	70 - 350	29 [1)]
230V-1ph	0,37	6,75	2,45	0,65	70	350	5,5	70 - 350	29 [1]

[1)] Weight for WES and WET models is 37 kg.
** All flow data at 50 Hz.

Electric submerged pumps ordering matrix

Custom build your submerged pump

▼ This is how a submerged pump model number is built up:

If the submerged pump that would best fit your application cannot be found in the chart on page 111, you can easily build your custom submerged pump here.

W	E	M	-	1	3	01	E
1 Product Type	2 Motor Type	3 Pump Type		4 Pump Series	5 Valve Type	6 Reservoir Capacity	7 Motor Voltage

1 Product Type
W = Workholding Pump

2 Motor Type
E = Electric motor

3 Pump Type
D = Dump
J = Jog
M = Manual
R = Remote (solenoid)
S = Pressure switch (IC-51)
T = Pressure switch (IC-31)

4 Pump Series
1 = 0,37 kW, 350 bar

5 Valve Type
0 = No valve (WER only)
1 = Dump
2 = 3-way, 2-position, normally open
3 = 3-way, 3-position, tandem center
4 = 4-way, 3-position, tandem center
5 = Custom VE-series valve (WER only) See example 2 below.

6 Reservoir Capacity
01 = 5,5 litres usable oil

7 Motor Voltage and Heat Exchanger
B = 115 V, 1 Ph, 50/60 Hz
D = 115 V, 1 Ph, 50/60 Hz with heat exchanger
E = 230 V, 1 Ph, 50/60 Hz
F = 230 V, 1 Ph, 50/60 Hz with heat exchanger
I = 230 V, 1 Ph, 60 Hz*

* To order WER models, for 60 Hz applications, replace the "E" suffix for "I".

Ordering example 1

Ordering example 2

Examples

Model number:
WER-1301E

The **WER-1301E** is a 0,37 kW, 350 bar, submerged electric pump, with 5,5 litres usable oil capacity, a 3-way, 3-position modular, remote solenoid valve (VEF-series) and a 230 V, 1 phase, 50/60 Hz motor.

Model number:
WER-1501E- VED11000D

The WER-1501E is a 0,37 kW, 350 bar, submerged electric pump, with 5,5 litres usable oil capacity. The valve, model VED11000D is a 24 V, 50 Hz solenoid valve. (For details and options for all VE-series valves see pages 146-147).

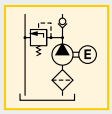
Flow: 0,65 l/min

Pressure: 350 bar max

Motor: 0,37 kW

Reservoir: 5,5 litres

E Bombas eléctricas
F Centrale hydraulique
D Tauchpumpe



Important

WER series pumps use the VE-series valves shown on page 146. WER-13 series uses VEF-series valve. WER-14 series uses VEC-series valve.

WES series pumps use IC-51 pressure switch, adjustable from 210-525 bar

WET series pumps use IC-31 pressure switch, adjustable from 35-245 bar.