

PE-Series, Submerged Electric Pumps

ENERPAC
POWERFUL SOLUTIONS. GLOBAL FORCE.

▼ Shown: PEJ-1401E



- Two-speed operation reduces cycle times for improved productivity
- Powerful 0,37 kW induction motor is submerged in the oil reservoir to run cooler, protect the motor, simplify the pump interface, save space and reduce noise
- Large 5,5 litres reservoir allows operation of a wide range of cylinders
- 24 VDC remote pendant control on certain models for safer operation
- Externally adjustable relief valve allows control of operating pressure without opening the pump
- 40-micron internal return line filter keeps oil clean, promoting longer pump life
- Full length side tube for easy monitoring of oil level.



◀ The Remote Jog Model of the Submerged Pump simplifies repair on this construction crane.

Best Performance for Mid-Range Cylinders and Tools

▼ SELECTION CHART

For more technical information see next page.

5 BASIC PUMP TYPES	
Select the model that suits your application. For special requirements see page 83 or contact your Enerpac office.	
PED Series: with Dump Valve <ul style="list-style-type: none"> • Ideal for punching, crimping and cutting • For use when load holding is not required • Control pendant with 3 m cord controls valve and motor 	
PEM Series: with Manual Valve <ul style="list-style-type: none"> • Ideal choice for most applications • Manual valve control, for both single-acting and double-acting applications • Manual motor control 	
PER Series: with Solenoid Valve <ul style="list-style-type: none"> • Ideal for production and lifting • All valves are 3 position for Advance-Hold-Retract • Control pendant with 3 m cord for remote valve operation 	
PEJ Series: with Remote Jog <ul style="list-style-type: none"> • For light production and lifting applications • Manual valve control for single-acting or double-acting cylinders • Control pendant with 3 m cord for remote motor operation 	
PES Series: with Pressure Switch <ul style="list-style-type: none"> • Designed for continuous pressure applications, such as clamping, workholding and testing • All versions include manual valves for directional control 	

* See the Valve Section in this catalog for technical information on valve types.

Submerged Electric Pumps



PE-Series Submerged Pump Application

The Submerged pump is best suited to power small to medium size cylinders or hydraulic tools, or whenever quiet, intermittent duty cycle is needed.

With its low sound level and the addition of the optional oil cooler, the Submerged pump is suited to light production work as well.

Its lightweight and compact design also make it ideal for applications which require some transport of the pump.

For further application assistance see the 'Yellow Pages' or contact your local Enerpac office.

Page: 239

PE Series



Reservoir Capacity:
5,5 litres

Flow at Rated Pressure:
0,27 l/min

Motor Size:
0,37 kW

Maximum Operating Pressure:
700 bar

Pump Type	Used with Cylinder	Valve Function	Valve Type*	Usable Oil Capacity (litres)	Model Number	Weight (kg)
	Single-Acting	Advance/Retract	Dump	5,5	230 VAC, 1 ph PED-1001E	24,9
	Single-Acting	Advance/Retract	Manual, 3-way, 2-position	5,5	PEM-1201E	24,0
	Single-Acting	Advance/Hold/Retract	Manual, 3-way, 3-position	5,5	PEM-1301E	24,0
	Double-Acting	Advance/Hold/Retract	Manual, 4-way, 3-position	5,5	PEM-1401E	24,0
	Single-Acting	Advance/Hold/Retract	Solenoid, 3-way, 3-position	5,5	PER-1301E	29,5
	Double-Acting	Advance/Hold/Retract	Solenoid, 4-way, 3-position	5,5	PER-1401E	29,5
	Single-Acting	Advance/Retract	Manual, 3-way, 2-position	5,5	PEJ-1201E	24,9
	Single-Acting	Advance/Hold/Retract	Manual, 3-way, 3-position	5,5	PEJ-1301E	24,9
	Double-Acting	Advance/Hold/Retract	Manual, 4-way, 3-position	5,5	PEJ-1401E	24,9
	Single-Acting	Advance/Retract	Manual, 3-way, 2-position	5,5	PES-1201E	28,1
	Double-Acting	Advance/Hold/Retract	Manual, 4-way, 3-position	5,5	PES-1401E	28,1

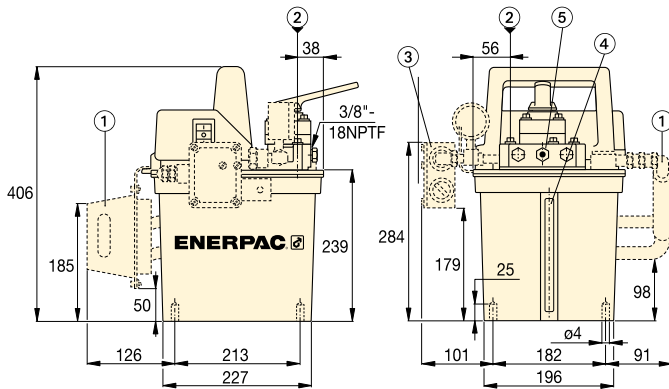
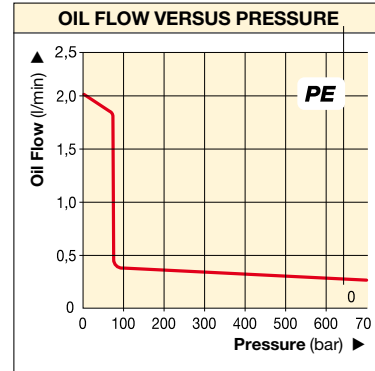
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◀ For full features see previous page.

SUBMERGED PUMP PERFORMANCE							
Motor Size (kW)	Pressure Rating (bar)		Output Flow Rate at 50 Hz (l/min)		Motor Electrical Specifications * (Amps @ Volts-Ph-Hz)	Sound Level (dBA)	Relief Valve Adjustment Range (bar)
	1 st stage	2 nd stage	1 st stage	2 nd stage			
0,37	70	700	2,0	0,27	13 @ 115-1-50/60 6,75 @ 230-1-50/60	62-70	70-700

* At full load. See ordering matrix footnote for frequency notations.



- ① Heat Exchanger (optional for all models)
- ② Fill Port
- ③ Pressure Switch (PES-series, optional for other models)
- ④ Oil Level Indicator
- ⑤ Adjustable relief valve



Speed Chart

To determine how a specific pump will operate your cylinder, see the Pump-Cylinder Speed Chart in the 'Yellow Pages'.

Page: 249



◀ This PED-1001E Submerged pump quickly and quietly powers a hydraulic nut cutter in this bucket maintenance application.

Submerged Electric Pumps

CUSTOM BUILD YOUR SUBMERGED PUMP

If the Submerged Pump that would best fit your application cannot be found in the chart on page 81, here you can easily build your custom submerged pump.

▼ This is how a Submerged Pump Model Number is built up:

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

1 Product Type

P = Pump

2 Motor Type

E = Electric Motor

3 Pump Type

D = Dump

J = Jog

M = Manual

R = Remote (Solenoid) ¹⁾²⁾

S = Pressure Switch

4 Pump Series

1 = 0,37 kW, 700 bar

5 Valve Type

0 = No valve (PER 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 = Modular solenoid valve (PER only)

6 Reservoir Capacity

01 = 5,5 litres

7 Motor Voltage and Heat Exchanger

B = 115 V, 1 Ph, 50/60 Hz ¹⁾

D = 115 V, 1 Ph, 50/60 Hz ¹⁾

with Heat Exchanger

E = 230 V, 1 Ph, 50/60 Hz ²⁾

F = 230 V, 1 Ph, 50/60 Hz ²⁾

with Heat Exchanger

I = 230 V, 1 Ph, 60 Hz

¹⁾ Solenoid valves operate only at 60 Hz. Can run on 50 Hz with manual valves.

²⁾ Solenoid valves operate only at 50 Hz. Can run on 60 Hz with manual valves.

Ordering Example

Model Number: PER-1301E

The PER-1301E is a 0,37 kW, 700 bar, submerged electric pump, with 5,5 litres usable oil capacity, a 3-way, 3-position, remote solenoid valve and a 230 V, 1 Phase, 50/60 Hz motor.

PE Series



Reservoir Capacity:

5,5 litres

Flow at Rated Pressure:

0,27 l/min

Motor Size:

0,37 kW

Maximum Operating Pressure:

700 bar



Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

Page: 120



Gauges

Minimize the risk of overloading and ensure long, dependable service from your equipment. Refer to the System Components section for a full range of gauges.

Page: 128