

# Electric Hydraulic Pumps

## 0.6 L/min. — 1.12 kW (PE46 Series)

Two-speed high performance pump. Best suited for under the roof maintenance and some production applications. Generally recommended for cylinders up to 150 ton.



Hoses, Fittings & Gauges  
Pages  
74-80



Pump Accessories  
Pages  
161-165



Cylinder/Pump Speed/Selection Chart  
Page  
178



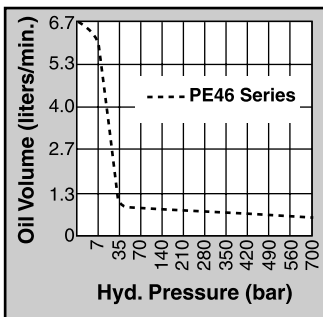
Choosing The Right Pump  
Pages  
181-184

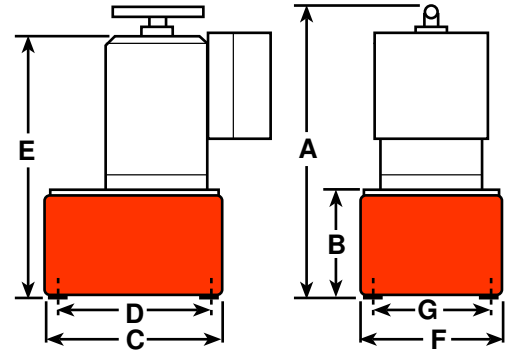


- Two-speed high performance pump.
- For use with single- or double-acting cylinders at operating pressures to 700 bar.
- Equipped with a 1.12 kW, 2,875 rpm single-phase, 50 Hz thermal protected induction motor that starts under full load. Noise level of 77-81 dBA.

- CSA rated for intermittent duty.
- All equipped with a 3.1 meter remote control except PE462S-50-220 which has a 7.6 meter remote control.
- Large selection of valve options. See pages 144-155.
- 24 volt control circuit on all units with remote control for user/operator safety.

### PERFORMANCE





## SPECIFICATIONS AND DIMENSIONS

Pump No.	Maximum Pressure Output	rpm	dBA at Idle and 700 bar	Amp Draw 220 V - at 700 bar	Oil Del. (liters/min. @)†				Dimensions (mm)							Prod. Wt. With Oil (kg)
					0 bar	7 bar	350 bar	700 bar	A	B	C	D	E	F	G	
PE46 Series	700 bar	2,875	77/81*	13	6.7	6.0	0.7	0.6	499	173	292	254	378	241	203	35.8
PE46-E220	700 bar	2,875	77/81*	13	6.7	6.0	0.7	0.6	499	173	292	254	378	241	203	41.3

\* Measured at 0.9 meter distance, all sides.

† Typical delivery. Actual flow will vary with field conditions.

## ORDERING INFORMATION

See current price list for shipping weights.

### SINGLE-ACTING

Description	Order No.	Valve			Control Switch †††	Motor	Reservoir (Usable)***
		Type	No.	Function			
Base model 1.12 kW pump with 9.5 liter metal reservoir.	PE462-50-220	3-Way	9584	Advance Return†	Remote Motor Control (3.1 m) on/off	1.12 kW 220 V* 50 Hz, Single Phase	9.4 liters
PE462-50-220, except has solenoid valve.	PE462S-50-220	3-Way	9579	Advance Return**	Remote Motor/Valve (7.6 m)		9.4 liters
PE462-50-220, except has "dump valve".	PE462A-50-220 <sup>∞</sup>	Auto/Dump 3-Way	9610	Advance Return	Remote Motor Control (3.1 m) on/off		9.4 liters
1.12 kW pump with 9.5 liter metal reservoir. Meets CE requirements.	PE462-E220	3-Way	9584	Advance Return†	Remote Motor Control (3.1 m) on/off	CE (1)	9.4 liters
PE462-50-220, except has solenoid valve. Meets CE requirements.	PE462S-E220	3-Way	9579	Advance Return**	Remote Motor/Valve (7.6 m)		9.4 liters
PE462-50-220, except has "dump valve". Meets CE requirements.	PE462A-E220 <sup>∞</sup>	Auto/Dump 3-Way	9610	Advance Return	Remote Motor Control (3.1 m) on/off		9.4 liters

### DOUBLE OR MULTI SINGLE-ACTING

Description	Order No.	Valve			Control Switch †††	Motor	Reservoir (Usable)***
		Type	No.	Function			
PE462-50-220, except has 9500 double-acting valve.	PE464-50-220	4-Way	9500	Advance Hold Return†	Remote Motor Control (3.1 m) on/off	1.12 kW 220 V* 50 Hz, Single Phase	9.4 liters
PE462S-50-220, except has 9592 double-acting valve.	PE464S-50-220	3/4-Way	9592	Advance Return**	Remote Motor/Valve (3.1 m)		9.4 liters
Same as PE464-50-220, but also meets CE requirements.	PE464-E220	4-Way	9500	Advance Hold Return†	Remote Motor Control (3.1 m) on/off	CE (1)	9.4 liters
Same as PE464S-50-220, but also meets CE requirements.	PE464S-E220	3/4-Way	9592	Advance Return**	Remote Motor/Valve (3.1 m)		9.4 liters

\* Available with 115 V., 60 Hz motor (to order, remove suffix "50-220" from pump order number).

\*\* "Advance" position holds pressure with motor shut off.

\*\*\* Usable oil is calculated with the oil fill at the recommended level of 12.7 mm below reservoir cover plate.

† "Advance" position holds pressure with motor shut off. "Return" position returns cylinder.

††† The remote motor control switch on PE46 series pumps is 24 volt.

<sup>∞</sup> Not to be used for lifting. When pump is shut off, oil returns to reservoir.

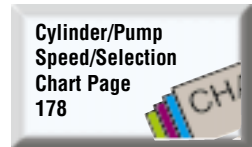
(1) These pumps are CE marked for meeting the requirements of 89/366/EEC and 73/23/EEC. In addition, they meet the European Union Machinery Directive and are furnished with a Declaration of Incorporation. For additional information contact your nearest Power Team facility.

# Electric Hydraulic Pumps

0.9 L/min. — .84 kW (PE55 Vanguard® Series)

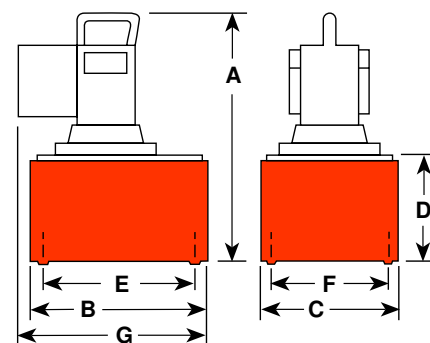
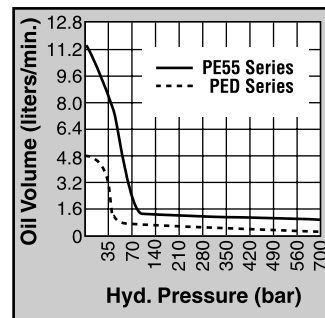
This is a proven pump for many of the toughest applications, and for starting under low voltage conditions. The PE55 pump has earned its place as the mainstay for heavy construction and the concrete stressing business world wide. Generally recommended for cylinders up to 200 tons.

PUMPS



- Two-speed high performance. Forty years of reliability and constant improvement make Vanguard® pumps a mainstay worldwide. Some original pumps are still in service!
- Designed for operating pressures to 700 bar. CSA rated for intermittent duty. Noise level of 90 dBA.
- Has .84 kW, 12,000 rpm, 220 volt, 50 Hz universal motor; draws 13 amps at full load, starts at reduced voltage.
- Internal relief valve preset at 700 bar, 9.5 liter metal reservoir.
- All have 3.1 meter remote motor control except PE552S-50-220 which has a 7.6 meter remote motor and valve control.
- True unloading valve achieves greater pump efficiency, allowing higher flows at maximum pressure.
- Reservoirs available in sizes up to 37.9 liters. See accessories page 165.
- Light weight and portable. Best weight to performance ratio of all Power Team pumps.
- "Assemble to Order" System: There are times when a custom pump is required. Power Team's "Assemble to Order" system allows you to choose from a wide range of pre-engineered, off-the-shelf components to build a customized pump to fit specific requirements. By selecting standard components you get a "customized" pump without "customized" prices. All pumps come fully assembled, less oil and ready for work. See pages 70-73.

## PERFORMANCE



4 mounting holes 1/2"-20

## SPECIFICATIONS AND DIMENSIONS


Pump No.	rpm	Maximum Pressure Output	dBA at Idle and 700 bar	Amp Draw at 700 bar (220 V.)	Oil Delivery (liters/min. @)				Dimensions (mm)								Product Weight With Oil (kg)
					7 bar	48.2 bar	350 bar	700 bar	A	B	C	D	E	F	G	H	
PE55 Series	12,000	700 bar	90/89*	13	11.3	7.1	1.2	0.9	464	292	241	178	254	203	356	–	29.4
PE55-E220	12,000	700 bar	87/85*	13	11.3	7.1	1.2	0.9	520	292	241	178	254	203	391	–	29.4

\* Noise level reading (dBA) measured at a 0.9 meter distance, all sides.


## ORDERING INFORMATION

See current price list for shipping weights.

### SINGLE-ACTING

Description	Order No.***	Valve			Control Switch ††	Motor	Reservoir (Usable)
		Type	No.	Function			
Base model .84 kW pump with 9.5 liter res., remote motor control & 3-way valve.	PE552-50-220	3-Way	9582	Advance Return**	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
PE552-50-220, except also has solenoid operated remote valve.	PE552S-50-220	3-Way	9579	Advance Return	Remote Motor & Valve	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
PE552-50-220, except has "Auto Dump" valve.	PE552A-50-220∞	Auto/Dump	9610	Advance Hold Return	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
.84 kW pump with 9.5 liter reservoir. Valve has "Posi-check" feature.	PE553-50-220	3-Way †	9520	Advance Hold Return	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
Same as PE552-50-220, but also meets CE requirements.	PE552-E220	3-Way	9582	Advance Return**	Remote Motor	 (1)	8.4 liters
Same as PE552S-50-220, but also meets CE requirements.	PE552S-E220	3-Way	9579	Advance Return	Remote Motor & Valve		8.4 liters
Same as PE552A-50-220, but also meets CE requirements.	PE552A-E220∞	Auto/Dump	9610	Advance Hold Return	Remote Motor		8.4 liters

### DOUBLE-ACTING

Description	Order No.***	Valve			Control Switch ††	Motor	Reservoir (Usable)
		Type	No.	Function			
.84 kW pump with 9.5 L res. and 4-way valve for double-acting systems.	PE554-50-220	4-Way †	9506	Advance Hold Return	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
PE554-50-220, except has 9500 tandem center valve.	PE554T-50-220	4-Way	9500	Advance Hold Return	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
For use with single-acting Spring Seat, Stressing Jack or double-acting cyl.	PE554P-50-220	4-Way	9500	Advance Hold Return	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
For use with single- or double-acting Power Seat, Stressing Jacks ONLY.	PE554PT-50-220	4-Way	9628	Advance Hold Sequenced Return	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
Pump suitable to run multiple spring return tools.	PE554C-50-220	4-Way	9511 †††	Advance Hold Return	Remote Motor	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
Pump equipped with 3/4-way solenoid valve.	PE554S-50-220	3/4-Way	9592	Advance Hold Return	Remote Motor & Valve	.84 kW*, 220 V. 50 Hz A.C., Single Phase	8.4 liters
Pump suitable to run multiple spring return tools.	PE554C-E220	4-Way	9511 †††	Advance Hold Return	Remote Motor	 (1)	8.4 liters
Pump equipped with 3/4-way solenoid valve.	PE554S-E220	3/4-Way	9552	Advance Hold Return	Remote Motor & Valve		8.4 liters

\* Pumps available with 115 volt, 60/50 Hz motors (to order, remove the -50-220 suffix from the order number). See "Assemble to Order" pump options on pages 70-73.

\*\* Holds with motor shut off.


\*\*\* To order PE55 series pumps with CSA approval, add "-C" to the Order No.

† Valves have "Posi-Check"® feature.

†† Control switch wired with line voltage. All remotes are 3.1 meters long except for PE552S-50-220 which is 7.6 meters long.

††† Valving allows alternate and independent operation of two different spring return tools. Valve holds pressure only while valve is in "A" or "B" port position with pump motor shut off.

∞ Not to be used for lifting.

(1) These pumps are  marked for meeting the requirements of 89/366/EEC and 73/23/EEC. In addition, they meet the European Union Machinery Directive and are furnished with a Declaration of Incorporation. For additional information contact your nearest Power Team facility.

# Electric Hydraulic Pumps

0.9 L/min. — .84 kW (PE60 Vanguard Supreme® Series)

Compact, light weight pump with numerous standard features. Excellent choice for rugged applications and low voltage starting. Recommended for stressing tools.



Hoses, Fittings & Gauges  
Pages  
74-80

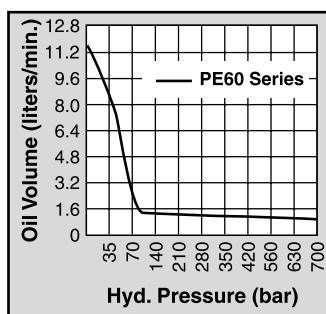
Pump Accessories  
Pages  
161-165

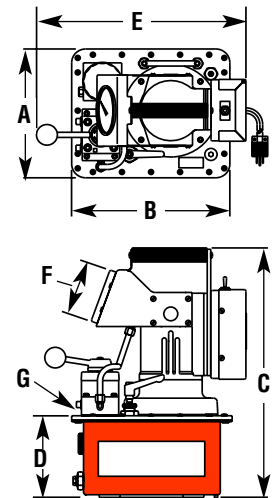
Cylinder/Pump Speed/Selection Chart Page  
178

Choosing The Right Pump  
Pages  
181-184

- The Vanguard® tradition of reliability, two-speed high performance and ease of maintenance has reached a new standard.
- Long, trouble free life in the most demanding work environments. For operating single- or double-acting cylinders, or stressing jacks at operating pressures to 700 bar.
- Powered by .84 kW, 220 volt, 60/50 Hz single phase motor. Improved motor insulation extends motor life and is in full CSA compliance. Starts under load, even at the reduced voltages at construction sites.
- Quiet operation: 80 to 85 dBA at 0.9 meter distance with 54 dBA background.
- Optional fan-driven external oil cooler includes rollover guard.
- Insulated carrying handle. Pump weighs only 22.7 kg without oil cooler option: 8.2 kg less than similar competitive units!
- Integral 102 mm dia. fluid-filled pressure gauge with steel bezel complies with ASME B40.1 Grade A. With 0 to 700 bar pressure range in 7 bar increments.
- Sealed 4.34 liter (usable) reservoir. Reservoir drain port is standard.
- Standard oil level sight gauge for accurate oil level monitoring.
- External spin-on filter removes contaminants from circulating oil to maximize pump, valve and cylinder/tool life.

## PERFORMANCE





## SPECIFICATIONS AND DIMENSIONS

Pump No.	rpm	Maximum Pressure Output	dBA at idle and 700 bar	Amp draw at 700 bar	Oil Delivery (liters/min. @)				Dimensions (mm)							Prod. Wt. with Oil (kg)
					6.9 bar	48.2 bar	350 bar	700 bar	A	B	C	D	E	F	G	
PE604T-220	12,000	700 bar	80/85	13	11.3	7.1	1.2	0.9	263.5	301.6	457.2	152.4	381	101.6	3/8" NPTF	27.2
PE604PT-220	12,000	700 bar	80/85	13	11.3	7.1	1.2	0.9	263.5	301.6	457.2	152.4	381	101.6	3/8" NPTF	27.7

NOTE: Unloading pressure is 70 bar.  
 Consult factory for PE60 pump models with other control and valve options.  
 For 115 volt, 50/60 Hz, single-phase models, remove -220 suffix

## ORDERING INFORMATION

See current price list for shipping weights.

### SINGLE-ACTING, SPRING SEAT, STRESSING JACK OR DOUBLE-ACTING CYLINDER

Description	Order No.	Valve			Control Switch	Motor	Reservoir (Usable)
		Type	No.	Function			
.84 kW pump with 4.73 liter reservoir & valve for double-acting systems.	PE604T-220	4-Way, 3-position	9500	Advance Hold Return	On/Off/Pulse control switch	.84 kW 220 VAC 60/50 Hz, Single Phase	4.34 liters

### SINGLE-ACTING OR DOUBLE-ACTING POWER SEAT, STRESSING JACKS ONLY

Description	Order No.	Valve			Control Switch	Motor	Reservoir (Usable)
		Type	No.	Function			
PE604T-220, except has special valve for post tensioning application only.	PE604PT-220	4-Way, 3-position	9628 model C	Advance Hold Sequenced Return	On/Off/Pulse control switch	.84 kW 220 VAC 60/50 Hz, Single Phase	4.34 liters

#### OPTIONAL

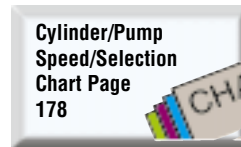
253219: Oil cooler kit for PE604T or PE604PT, 115 VAC (model "C" only). Weight 2.7 kg

253220: Oil cooler kit for PE604T-220 or PE604PT-220, 220 VAC (model "C" only). Weight 2.7 kg

# Electric Hydraulic Pumps

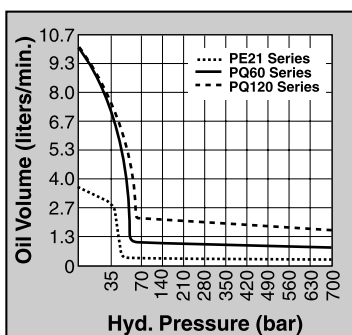
0.8 L/min. — 1.49 kW (PQ60 Series “Quiet Pump”)

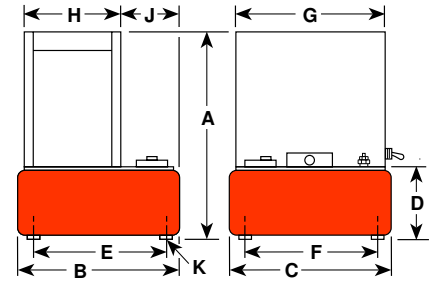
Quiet operating, low speed, high torque pump designed specifically for heavy duty, extended cycle operation. Ideal for press operation. Generally recommended for cylinders up to 200 ton.



- For operating single- or double-acting cylinders. Two-speed, high performance pumps are ideal for heavy duty, extended cycle operation at operating pressures to 700 bar.
- Metal shroud keeps dirt and moisture out of motor and electrical components.
- The “Posi-Check”<sup>®</sup> feature on valves, means load won't drop when shifting from “advance” to “hold”, making these pumps ideal for operating fixtures and holding pressure for extended periods of time.
- Electrical shut-down feature prevents unintentional restarting of motor following an electrical service interruption.
- Internal relief valve limits pressure to 700 bar. External relief valve is adjustable from 70 to 700 bar.
- Pumps operate below maximum OSHA noise limitation (74-76 dBA).
- Start and operate under full load, even with voltage reduced 10%.

## PERFORMANCE





## SPECIFICATIONS AND DIMENSIONS

Pump No.	Max. Press. Output	rpm	dBA at Idle and 700 bar	Amp Draw at 700 bar	Oil Delivery (liters/min.@)				Dimensions (mm)									Prod. Wt. w/Oil (kg)	
					7 bar	70 bar	350 bar	700 bar	A	B	C	D	E	F	G	H	J		K ***
PQ60 Series	700 bar	1,437	74/76 *	See Chart Below	9.7	0.9	0.9	0.8	638	362	394	184	308	338	373	237	122.2	½ -20 UNF	76.6**

\* Measured at a 0.9 meter distance, all sides.

\*\*\* For 50.8 mm dia. swivel casters, order (4) No. 10494.

\*\* Total weight with oil and 3-way solenoid valve. Subtract 4.5 kg to obtain weight of pump with manual valve.

## ORDERING INFORMATION ‡

See current price list for shipping weights.

### SINGLE-ACTING

Description	Order No.	Valve			Max. Amp Draw @ 700 bar	Motor	Reservoir (Usable)
		Type	No.	Function			
1.49 kW pump with 21.6 liter reservoir and manual valve.	<b>PQ603-50-220</b>	3-Way	9520*	Advance Hold Return	115V - 22 amps 220 V - 11 amps	1.49 kW 220 Volt 50 Hz††, Single Phase	20 liters
PQ603-50-220, except has solenoid operated remote valve.	<b>PQ603S-50-220</b>	3-Way	9599†	Advance Hold Return	115V - 22 amps 220 V - 11 amps	1.49 kW 220 Volt 50 Hz††, Single Phase	20 liters

### DOUBLE-ACTING

Description	Order No.	Valve			Max. Amp Draw @ 700 bar	Motor	Reservoir (Usable)
		Type	No.	Function			
1.49 kW pump with 21.6 liter. reservoir and manual valve.	<b>PQ604-50-220</b>	4-Way	9506*	Advance Hold Return	115V - 22 amps 220 V - 11 amps	1.49 kW 220 Volt 50 Hz††, Single Phase	20 liters
PQ604-50-220, except has solenoid operated remote valve.	<b>PQ604S-50-220</b>	4-Way	9512†	Advance Hold Return	115V - 22 amps 220 V - 11 amps	1.49 kW 220 Volt 50 Hz††, Single Phase	20 liters

\* Manual valve. Pump is equipped with RUN/OFF/PULSE switch for control of motor.

† Solenoid valve. Pump is equipped with a remote control switch with 3.1 meter cord.

†† PQ60 series also available in 115V, 60 Hz or 230V, 60 Hz. Please specify when ordering. Example: for 60 Hz order PQ603-115; for 230V 60 Hz order PQ603.

‡ Some Power Team pumps are available in special configurations not listed in this catalog. Power Team can "Assemble to Order" pumps with special seals, voltages, valves, relief valve settings, etc. For your special requirements please consult your local distributor or the Power Team factory.

# Electric Hydraulic Pumps

1.6 L/min. — 2.24 kW (PQ120 Series “Quiet Pump”)

Quiet operating, low speed, high torque pump designed specifically for heavy duty, extended cycle operation. Ideal for press operation. Generally recommended for cylinders up to 400 tons.



Hoses, Fittings & Gauges  
Pages  
74-80



Pump  
Accessories  
Pages  
161-165



Cylinder/Pump  
Speed/Selection  
Chart Page  
178

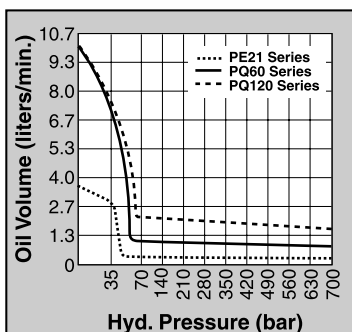


Choosing The  
Right Pump  
Pages  
181-184



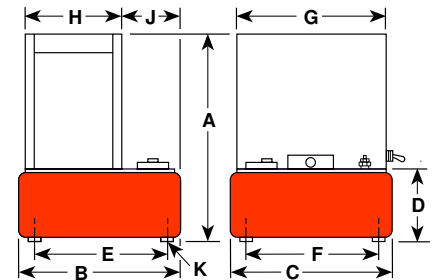
- For operating single- or double-acting cylinders. Two-speed, high performance pumps are ideal for heavy duty, extended cycle operation at operating pressures to 700 bar.
- Pumps operate below maximum OSHA noise limitation.
- Start and operate under full load, even with voltage reduced 10%.
- Electrical shut-down feature prevents unintentional restarting of motor following an electrical service interruption.
- Internal relief valve limits pressure to 700 bar. External relief valve is adjustable from 70 to 700 bar.
- Pump prewired at factory with a 2.24 kW, 220 volt, 50 Hz. 3 Phase motor. Other electrical configurations are available. See ordering information on the following page.
- 24 volt control circuits on units with remote controls for added user/operator safety.
- 2.24 kW (3 phase) motor with thermal overload protection. Motor starter and heater element supplied as standard equipment; no hidden charges!
- Metal shroud keeps dirt and moisture out of motor and electrical components.
- “Posi-Check®” feature means load won’t drop when shifting from “advance” to “hold”, making pump ideal for fixed applications and longer operational cycles.

## PERFORMANCE





PQ603 pump and C256C cylinder used to drive piers to lift and stabilize building foundation.



## SPECIFICATIONS AND DIMENSIONS

Pump No.	Max. Press. Output	rpm	dBA at Idle and 700 bar	Amp Draw at 700 bar	Oil Delivery (liters/min.@)				Dimensions (mm)									Prod. Wt. w/Oil (kg)	
					7 bar	70 bar	350 bar	700 bar	A	B	C	D	E	F	G	H	J		K ***
PQ120 Series	700 bar	1,437	73/78 *	See Chart Below	9.7	2.1	1.7	1.6	638	362	394	184	308	338	373	237	122.2	½ -20 UNF	74.3**

\* Measured at a 0.9 meter distance, all sides.

\*\*\* For 50.8 mm dia. swivel casters, order (4) No. 10494.

\*\* Total weight with oil and 3-way solenoid valve. Subtract 4.5 kg to obtain weight of pump with manual valve.

## ORDERING INFORMATION ‡

See current price list for shipping weights.

### SINGLE-ACTING

Description	Order No.	Valve			Max. Amp Draw @ 700 bar	Motor	Reservoir (Usable)
		Type	No.	Function			
2.24 kW pump with 21.6 liter reservoir and manual valve.	PQ1203-50-220	3-Way	9520*	Advance Hold Return	220V - 10.5 amps 380 V - 6.1 amps	2.24 kW 220 Volt 50 Hz††, 3 Phase	20 liters
PQ1203-50-220, except has solenoid operated remote valve.	PQ1203S-50-220	3-Way	9599†	Advance Hold Return	220V - 10.5 amps 380 V - 6.1 amps	2.24 kW 220 Volt 50 Hz††, 3 Phase	20 liters

### DOUBLE-ACTING

Description	Order No.	Valve			Max. Amp Draw @ 700 bar	Motor	Reservoir (Usable)
		Type	No.	Function			
2.24 kW pump with 21.6 liter reservoir and manual valve.	PQ1204-50-220	4-Way	9506*	Advance Hold Return	220V - 10.5 amps 380 V - 6.1 amps	2.24 kW 220 Volt 50 Hz††, 3 Phase	20 liters
PQ1204-50-220, except has solenoid operated remote valve.	PQ1204S-50-220	4-Way	9512†	Advance Hold Return	220V - 10.5 amps 380 V - 6.1 amps	2.24 kW 220 Volt 50 Hz††, 3 Phase	20 liters

\* Manual valve. Pump is equipped with RUN/OFF/PULSE switch for control of motor.

† Solenoid valve. Pump is equipped with a remote control switch with 3.1 meter cord.

†† PQ120 series also available in 230V 60 Hz or 460V 60 Hz. Please specify when ordering.

Example: for 230V 60 Hz order PQ1204S-230; for 460V 60 Hz. order PQ1204S.

PQ120 Series also available in 575V 60 Hz. Consult the factory.

‡ Some Power Team pumps are available in special configurations not listed in this catalog. Power Team can "Assemble to Order" pumps with special seals, voltages, valves, relief valve settings, etc. For your special requirements please consult your local distributor or the Power Team factory.

# Electric Hydraulic Pumps

5.6 L/min. — 7.46 kW (PE400 Series)

Delivers up to 16 L/min. of oil. Ideal for powering high tonnage double-acting cylinders, either singly or in multiple cylinder applications. Generally recommended for cylinders up to 1,000 tons.

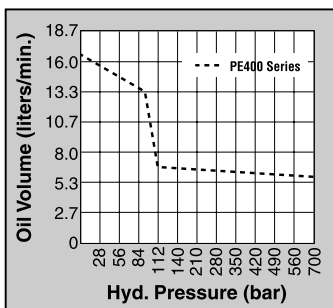
PUMPS



- Two-speed high output pump delivers up to 16 L/min. of oil. Ideal for powering high tonnage double-acting cylinders, either singly or in multiple cylinder applications. For operating pressures to 700 bar.
- Low noise level of 73-80 dBA.
- Integral electrical shut-down feature prevents unintentional restarting of motor following an electrical service interruption. Over-current protection prevents damage to motor as a result of overheating.

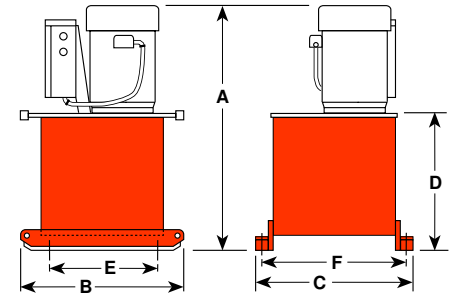
- “Stop” and “Start” control buttons are 24 volt. PE4004-50-220 has a 4-way/3-position manual valve. The PE4004S-50-220 has a 4-way/3-position solenoid valve with a 24 volt remote hand switch.
- Valves feature “Posi-Check®” which holds the load when shifting from “advance” or “return” to “hold” position.
- External pressure relief valve is adjustable from 104 to 700 bar.
- Heavy duty 102 mm dia. casters assure easy maneuvering.
- 75.7 liter (62.8 liters usable) reservoir has a low oil level sight gauge.
- Powered by a dual voltage 7.46 kW, 3 phase, 1,437 rpm motor.
- 3 phase motor has all the electrical components necessary to operate the pump. The customer has no hidden charges when making purchase.
- Deliver 16 L/min. of oil @ 15 bar, 5.6 L/min. of oil @ 700 bar.

## PERFORMANCE





PE4004S pump and RD3006 cylinder used in a special press which repairs damaged chain links.



## SPECIFICATIONS AND DIMENSIONS

Pump No.	Maximum Pressure Output	rpm	dBA at Idle and 700 bar	Amp Draw at 700 bar	Oil Delivery (liters/min. @)				Dimensions (mm)						Prod. Wt. w/Oil (kg)*
					15 bar	90 bar	350 bar	700 bar	A*	B	C	D	E Caster Mtg.	F Caster Mtg.	
PE4004-50-220	700 bar	1,437	73/80	34 @ 220 V.	16	14	6	5.6	924	635	610	540	394	546	223
PE4004S-50-220	700 bar	1,437	73/80	17 @ 460 V.	16	14	6	5.6	924	635	610	540	394	546	229

\* Add 127 mm and 3.63 kg when casters are mounted. (Units are supplied with four 102 mm dia. swivel casters.)

## ORDERING INFORMATION

See current price list for shipping weights.

### DOUBLE-ACTING

Description	Order No.	Valve			Motor ††	Reservoir (Usable)
		Type	No.	Function		
7.46 kW pump with 75.7 liter reservoir and manual valve.	<b>PE4004-50-220</b>	4-Way	9506	Advance Hold Return	7.46 kW 460 volt* 60 Hz, 3 Phase	62.8 liters †
PE4004-50-220, except has solenoid operated remote valve.	<b>PE4004S-50-220</b>	4-Way	9512**	Advance Hold Return	7.46 kW 460 volt* 60 Hz, 3 Phase	62.8 liters †

\* Factory wired for this voltage. For 230V, 60Hz order PE4004-230 or PE4004S-230.

\*\* Solenoid valve with remote control.

† Usable oil is calculated with oil fill at recommended level at 57.2 mm below cover plate.

†† PE400 series available in 380V, 50Hz and 460V, 60Hz. Please specify when ordering. Example: PE4004-50-380 or for 460V, 60 Hz order PE4004 and for 575V, 60 Hz order PE4004S-575.

**NOTE:** Valves for spring return cylinders are available upon request. Consult the factory.