

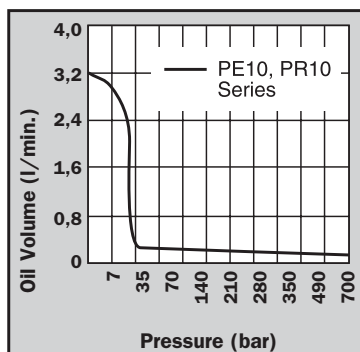
# Electric/Battery Pump

## HYDRAULIC PE10 SERIES

Up to 25 Ton  
Quarter Horse®  
Two Speed

High performance in compact package, Electric and battery powered models for powering tools and cylinders up to 25 ton.

700 bar



- Portable power source for hydraulic cylinders, and tools.
- Permanent magnet motor starts easily under load, even with reduced voltage conditions.
- Battery-operated models have 2,4 m power cord with alligator clips to connect to any 12 volt battery.
- Optional rechargeable battery pack with shoulder strap for maximum portability.
- Pump typically delivers 15 minutes of continuous operation at 700 bar on a single battery.
- Pump can be operated in any position.
- 24 volt hand and foot switches available for all AC powered models.
- High-impact housing with flame-retardant construction.
- Base mounting holes for fixed installations.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Control Switch	Motor	Reservoir Usable Cap. (l)
Single-Acting	Base model pump with 0,19 KW motor. Bladder type reservoir.	<b>PE102-220</b>	2-Way/ Auto. Dump	9561	Advance Return (Auto.)*	Rocker Type off, Momentary on	0,19 KW, 220/230V 50/60 Hz, Single Phase	1
Single-Acting	Base model pump with 0,19 KW motor. Bladder type reservoir with automatic dump valve	<b>PE102A-220</b>	Auto. Dump	9562	Advance Return	Rocker Type off, Momentary on	0,19 KW, 220/230V 50/60 Hz, Single Phase	1
Single-Acting	PE102-220, except requires 12 volt DC.	<b>PR102</b>	2-Way/ Auto. Dump	9561	Advance Return (Auto.)*	Rocker Type off, Momentary on	0,19 KW, 12V†	1
Single-Acting	PE102A-220, except requires 12 volt DC.	<b>PR102A</b>	Auto. Dump	9562	Advance Return**	Rocker Type off, Momentary on	0,19 KW, 12V†	1
Single-Acting/ Double-Acting	Base model pump has 4-way valve for operating double-acting systems.	<b>PE104-220</b>	4-Way	9563	Advance Hold Return	Rocker Type off, Momentary on	0,19 KW, 220/230V 50/60 Hz, Single Phase	1
Single-Acting/ Double-Acting	PE104-220, except requires 12 volt DC.	<b>PR104</b>	4-Way	9563	Advance Hold Return	Rocker Type off, Momentary on	0,19 KW, 12V†	1

\* "Advance" position holds pressure with motor shut off. "Return" position advances cylinder with motor running and returns cylinder with motor shut off.

\*\* Cylinder advances with motor running and automatically returns with motor shut off.

† Comes with an 2,4 m. alligator clip cord for 12 volt DC use.

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



PR104

700 bar



The Quarter Horse pump has a maximum operating pressure of 700 bar, which handles a wide variety of hand held hydraulic tools.

## Accessories

BP212VQ



**BP212VQ** – Optional 12 volt battery pack. Includes sealed lead acid battery, 115V charger, 1,2 m cord, carrying case and shoulder strap. Wt., 8 kg.

**RB12V** – Battery only.

**BP12INT** – Battery with cord and carrying case. Wt., 5 kg.

**RC12V** – Replacement 1,2 m battery cord only. Wt., 0,2 kg.

BC 212



**BC212** – Battery charger for U.S.A. Wt., 3 kg.

**BC212EUR** – Battery charger for Europe. Wt., 3 kg.

**25017** – Remote hand control with 3 m cord. Wt., 0,4 kg.



**9560** – Pressure regulator. Adjustable from 70 to 700 bar. All mounting hardware included. Wt., 1,4 kg.



**251660** – Foot switch with 3 m cord. Single pole, double throw, 15 amp @ 125-250 VAC. Wt., 0,45 kg.

Max. Pump No.	Pressure Output (bar)	dBa @ Idle and 700 (bar)	Oil Del. (l/min at..)		Overall Dimensions (mm)	Prod. Wt. with Oil (kg)
			0 (bar)	700 (bar)		
PE10 Series PR10 Series	700	68-74*	1,9	0,16	330 L x 197 W x 203 H	9,1

\* Measured at 0,9 m distance, all sides.

**NOTE:** PR10 rechargeable model is equipped with 2,4 m cord with alligator clips. Order optional battery pack (No. BP212VQ) or use with any 12 volt battery.

**NOTE:** Amp draw at 700 bar; 3 amp at 230 volt and 35 amp at 12 volt. 6 amp at 115 volt.

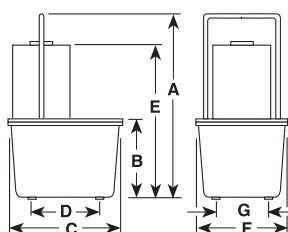
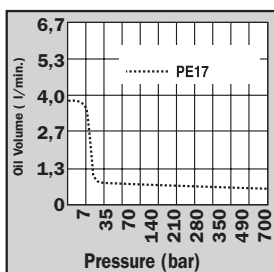
# Electric Pump

## HYDRAULIC PE17 SERIES

**262 cm<sup>3</sup>/min 0,37 kW**  
**2 Speed**

For maintenance  
and construction applications.

## PUMPS



PE172SM



PE174

- For use with single-acting or double-acting cylinders at operating pressures to 700 bar.
- For intermittent duty; starts under full load.
- Equipped with 0,37 KW, 3,450 rpm, single-phase, thermal protected induction motor; 3 m remote control cord (PE172S has 7,6 m cord)
- Low amperage draw; small generators and low amperage circuits can be used as power source.
- Extremely quiet noise level (67-81 dBA).

Pump No.	Max. Pressure Output		dBA at Idle and 700 bar	Amp Draw		Oil Del. (liters./min. @) †											Prod. Wt. with Oil (kg)
	bar	rpm		220 V – at 700 bar		0 bar	7 bar	350 bar	700 bar	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	
<b>PE17 Series</b>	700	2850	67/81*	5.3		4,8	3,1	0,33	0,26	470	178	289	181	378	235	130	20,4
<b>PE17M Series</b>	700	2850	67/81*	5.3		4,8	3,1	0,33	0,26	460	168	292	—	368	241	—	24,0

\* Measured at 0,9 m distance, all sides.

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

Amp Draw 115V - at 700 bar: 9.5 Amps.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Control Switch ††	Motor	Reservoir Usable (l)
Single-Acting	Base model pump with 0,37 KW pump with 7,6 l thermoplastic reservoir.	<b>PE172-50-220</b>	2-Way	9517	Advance Return (Auto†)	Remote Motor Control (3,1m) on/off	0,37 kW, 220 V* 50/60 Hz, Single Phase	4,8
Single-Acting	PE172-50-220, except has 9,5 l aluminum reservoir.	<b>PE172M-50-220</b>	2-Way	9517	Advance Return (Auto†)	Remote Motor Control (3,1m) on/off	0,37 kW, 220 V* 50/60 Hz, Single Phase	6
Single-Acting	PE172-50-220, except has solenoid operated valve.	<b>PE172S-50-220</b>	3-Way	9570	Advance Hold Return	Remote Motor & Valve (7,6 m)	0,37 kW, 220 V* 50/60 Hz, Single Phase	4,8
Single-Acting	PE172S-50-220, except has aluminum reservoir.	<b>PE172SM-50-220</b>	3-Way	9570	Advance Hold Return	Remote Motor & Valve (7,6 m)	0,37 kW, 220 V* 50/60 Hz, Single Phase	6
Single-Acting	Best suited for crimping, punching, pressing. Not for lifting. Thermoplastic reservoir.	<b>PE172A-50-220</b> ∞	Auto./Dump Manifold	45554	Advance Return	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V* 50/60 Hz, Single Phase	4,8
Single-Acting	PE172A, except has aluminum reservoir.	<b>PE172AM-50-220</b> ∞	Auto./Dump Manifold	45554	Advance Return	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V* 50/60 Hz, Single Phase	6
Single-Acting / Double-Acting	PE172-50-220, except has 9500 double-acting valve.	<b>PE174-50-220</b>	4-Way	9500	Advance Hold Return**	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V* 50/60 Hz, Single Phase	4,8
Single-Acting / Double-Acting	Same as PE174-50-220, except has aluminum reservoir.	<b>PE174M-50-220</b>	4-Way	9500	Advance Hold Return**	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V* 50/60 Hz, Single Phase	6

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

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

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

†† Control switch on PE17 series wired with line voltage.

∞ Not to be used for lifting.

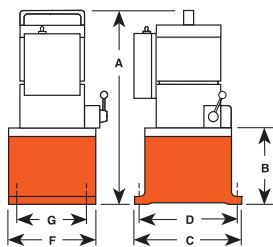
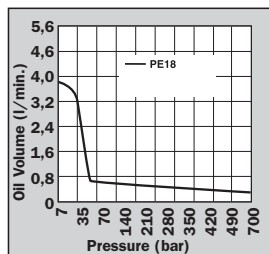
**NOTE:** The remote motor control switch on 220V, 50 cycle PE17 series pumps is 24 volt.

**NOTE:** Usable oil is calculated with the oil fill at the recommended level of 38 mm below reservoir cover plate.



PE182

- Vanguard Jr.® pumps provide two-speed high performance in a light-weight, compact package.
- Gauge port provided on pump. Metal reservoir on all models.
- Equipped with a 0,37 KW, 12,000 rpm, 220 volt, 50 Hz single phase universal motor that starts under load, even at reduced voltage.
- Low amperage draw permits use with smaller generators and low amperage circuits.
- All pumps have a 3 m remote control (PE183C has 7,6 m remote control).
- CSA rated for intermittent duty. Noise level of 85-90 dBA.



700 bar



## Electric Pump

HYDRAULIC PE18 SERIES

**295 cm<sup>3</sup>/min 0,37 KW**  
Vanguard Jr. Series®

Ideal for use with small hydraulically powered tools.

PUMPS

Pump No.	Max. Pressure Output bar	rpm	dBA at Idle and 700 bar	Amp Draw 220 V at 700 bar	Oil Del. (liters./min. @) †				A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	Prod. Wt. with Oil (kg)
PE182	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	406	121	203	181	152	130	13,6
PE183	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	406	121	203	181	152	130	13,6
PE183A	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	406	121	203	181	152	130	13,6
PE184	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	406	121	203	181	152	130	13,6
PE183-2*	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	470	184	292	254	241	203	19,0
PE184-2*	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	470	184	292	254	241	203	19,0
PE183C ††	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	406	121	203	181	152	130	13,6
PE184C ††	700	12.000	85/90**	6.5 Amp.	3,7	3,0	0,4	0,3	406	121	203	181	152	130	13,6

\* 9,5 l reservoir.

\*\* Measured at 0,9 m distance, all sides.  
Amp Draw 115V at 700 bar: 10.2 Amps.

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

†† Special application pumps for cutting, crimping or pressing.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve Function	Control Switch	Motor	Reservoir Usable (l)
Single-Acting	Base model pump has 0,37 KW pump with 2-Way valve and 1,9 l reservoir.	PE182-50-220	2-Way	Advance Return†	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	1,7
Single-Acting	PE182-50-220, except has 3-way valve.	PE183-50-220	3-Way	Advance Hold Return	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	1,7
Single-Acting	PE183-50-220, except has 9,5 l reservoir.	PE183-2-50-220	3-Way	Advance Hold Return	Remote Control (3,1 m)	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	8,4††
Single-Acting	PE183-50-220, except has "dump valve".	PE183A-50-220∞	Auto./Dump Pump	Advance Return	Remote (3,1 m)	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	1,7
Single-Acting	Special crimping pump.	PE183C-50-220∞	Special, for crimping only	Advance Hold Return	Remote Motor Control (7,6 m) on/off	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	1,7
Single-Acting / Double-Acting	Base model pump has 0,37 KW pump for double-acting systems with 1,9 l reservoir.	PE184-50-220	4-Way	Advance Hold Return†	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	1,7
Single-Acting / Double-Acting	PE184, except with 9,5 l reservoir.	PE184-2-50-220	4-Way	Advance Hold Return†	Remote Motor Control (3,1 m) on/off	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	8,4††
Single-Acting / Double-Acting	Special crimping pump.	PE184C-50-220*	4-Way	Advance Return	Remote Control (3,1 m) on/off	0,37 kW, 220 V** 50/60 Hz, A.C., Single Phase	1,7

\* Also for use with special single-acting cylinder applications.

\*\* Available with 115 Volt, 60 Hz motor (to order, remove suffix "50-220" behind pump order number). Specify voltage when ordering.  
Universal motor run on 220V/50Hz or 60Hz/Single phase.

† Holds when motor is shut off and valve is in "advance" position.

†† Pumps supplied with 7,6 l oil (usable oil is 5,7 l), will hold 9,5 l when filled to within 13 mm below reservoir cover plate.

∞ Not to be used for lifting.

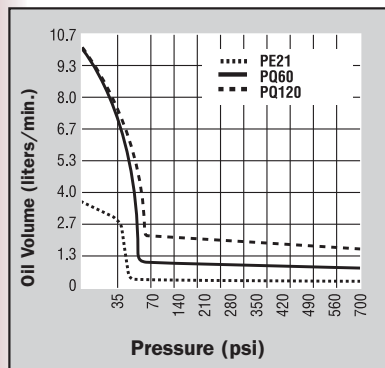
# Electric Pump

## HYDRAULIC PE21 SERIES

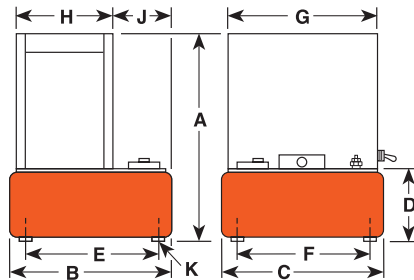
**361 cm<sup>3</sup>/min, 0.75 kW**  
**Two-speed**

Low-speed, high-torque  
for heavy-duty,  
extended-cycle operations.

## PUMPS



- Totally enclosed, fan cooled induction motor: 0,75 KW, 1,725 rpm, 50 Hz, single phase. Thermal overload protection.
- Remote control, with 3,1 m cord is standard on pumps with solenoid valves. Manual valve pumps have "Stop", "Start" and "Run/Off/Pulse" switches. Pump controls are moisture and dust resistant.
- Motor drip cover with carrying handles and lifting lug.
- Low noise level of 70 dBA@ 700 bar.
- In the event of electrical interruption, pump shuts off and will not start up until operator presses the pump start button.
- 24 volt control circuits on units with remote controls provide additional user/operator safety.



PE214

700 bar



LR19814



PE214S

Pump No.	Max. Pressure Output bar	rpm	dBA at Idle and 700 bar	Oil Del. (l/min. at.)															Prod. Wt. w/Oil (kg)
				7 bar	70 bar	350 bar	700 bar	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K*** (in)		
PE21 Series	700	1.437	70*	4,4	0,5	0,4	0,36	543	292	241	165	254	203	359	241	82,6	1/2-20 UNF	44,4†	

\* Measured at a 0,9 m distance, all sides.

\*\*\* For 50,8 mm dia. swivel casters, order (4) No. 10494.

† Shipping weight with manual valve; add 6,4 kg for pump with solenoid valve.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Max. Amp Draw at 700 bar	Motor	Reservoir Usable (l)
Single-Acting	0,75 KW pump with 9,5 l Reservoir and manual valve.	<b>PE213-50-220</b>	3-Way	9520*	Advance Hold Return	230 V - 9.5 amps	0,75 KW, 220 Volt 50 Hz, Single Phase	9.7
Single-Acting	PE213, except has solenoid operated remote valve.	<b>PE213S-50-220</b>	3-Way	9599†	Advance Hold Return	230 V - 9.5 amps	0,75 KW, 220 Volt 50 Hz, Single Phase	9.7
†† Single-Acting/Double-Acting	0,75 KW pump with 9,5 l Reservoir and manual valve.	<b>PE214-50-220</b>	4-Way	9506*	Advance Hold Return	230 V - 9.5 amps	0,75 KW, 220 Volt 50 Hz, Single Phase	9.7
Double-Acting	PE214, except has solenoid operated remote valve.	<b>PE214S-50-220</b>	4-Way	9512†	Advance Hold Return	230 V - 9.5 amps	0,75 KW, 220 Volt 50 Hz, Single Phase	9.7

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

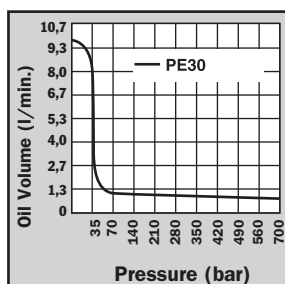
† 24V Solenoid valve. Pump is equipped with a remote control switch with 3,1 m cord.

†† For single-acting operation, off the electric motor when manual valve in "Retract" position.

Available with 115 volt, 60Hz motor (to order, remove suffix "50-220" behind pump order number)  
For 230V, 60Hz motor (change suffix to "-230")  
Amp Draw 115V at 700 bar: 19 Amps.

## Ideas for maintenance and construction applications

- Deliver a powerful punch to operate single-acting or double-acting cylinders.
- Integral roll cage protects pump from abuse.
- 0,75Kw (1 hp), single phase, permanent magnet motor.
- High performance to weight ratio.
- Starts under full load even when voltage is reduced to 50% of nominal rating.
- Quiet operation: 87 dBA @ 700 bar and 82 dBA @ 0 bar. CSA rated for intermittent duty.
- Remote controls and/or solenoid valves feature 24 volt controls.



## Electric Pump HYDRAULIC PE30 SERIES

**0,48 l/min.**  
**Two-Speed**  
**Vanguard® Series**

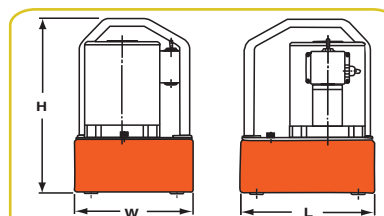


PE302

700 bar



PE302S



Pump No.	Max Pressure Output bar	Noise level at 700 bar (dBA)	Amp. Draw 220V at 700 bar (A)	Oil Del. ( l/min at..)					Overall Dimensions (mm)	Prod. Wt. With Oil (kg)
				7 bar	35 bar	70 bar	350 bar	700 bar		
PE30 Series with 4,7 l res.	700	87/82	7	4,8	3,2	0,7	0,6	0,5	254L x 229W x 406H	18,6
PE30 Series with 7,6 l res.	700	87/82	7	4,8	3,2	0,7	0,6	0,5	343L x 241W x 419H	22,2

For use with Cyl.-type	Description	Order No.	Valve Type	Valve No.	Valve Function	Control Switch	Motor (4.000 rpm)	Usable (l)
Single-act.	Base model 0,75 KW pump with 4,7 l Reservoir & 2 position valve.	PE302-220	3-Way, 2 Pos.	9584	Hold Advance Return	On/Off/ Pulse Switch	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Single-act.	PE302-220, except has 6,6 l reservoir.	PE302-2-220	3-Way, 2 Pos.	9584	Hold Advance Return	On/Off/ Pulse Switch	0,75 KW 220/230 VAC, 50 Hz, Single Phase	6,1***
Single-act.	PE302-220, except has remote motor control.	PE302R-220	3-Way, 2 Pos.	9584	Hold Advance Return	Remote Motor Control (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Single-act.	PE302R-220, except has 6,6 l reservoir.	PE302R-2-220	3-Way, 2 Pos.	9584	Hold Advance Return	Remote Motor Control (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	6,1***
Single-act.	PE302R-220, except also has solenoid operated remote valve.	PE302S-220	3-Way, 2 Pos.	9570	Hold Advance Return	Remote Motor & Valve (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Single-act.	PE302S-220, except has 6,6 l reservoir.	PE302S-2-220	3-Way, 2 Pos.	9570	Hold Advance Return	Remote Motor & Valve (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	6,1***
Single-act.	PE302-220, except has "Auto Dump" valve	PE302A-220∞	Auto Dump	9610	Automatic Pilot Operation	Remote Motor Control (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Single-act.	Base model 0,75 KW pump with 4,7 l Reservoir & 3 position valve.	PE303-220	3-Way, 3 Pos.	9520*	Advance Hold Return	On/Off/ Pulse Switch	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Single-act.	PE303-220, except has 6,6 l reservoir.	PE303-2-220	3-Way, 3 Pos.	9520*	Advance Hold Return	On/Off/ Pulse Switch	0,75 KW 220/230 VAC, 50 Hz, Single Phase	6,1***
Single-act.	PE303-220, except has remote motor control.	PE303R-220	3-Way, 3 Pos.	9520*	Advance Hold Return	Remote Motor Control (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Single-act.	PE303R, except has 6,6 l reservoir.	PE303R-2-220	3-Way, 3 Pos.	9520*	Advance Hold Return	Remote Motor Control (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	6,1***
Double-act.	Base model 0,75 KW pump with 4,7 l Reservoir & 4-way valve for double-acting systems	PE304-220	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	On/Off/ Pulse Switch	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Double-act.	PE304-220, except has 6,6 l reservoir.	PE304-2-220	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	On/Off/ Pulse Switch	0,75 KW 220/230 VAC, 50 Hz, Single Phase	6,1***
Double-act.	PE304-220, except has remote motor control.	PE304R-220	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	Remote Motor Control (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	4,5**
Double-act.	PE304R-220, except has 6,6 l reservoir.	PE304R-2-220	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	Remote Motor Control (3,1 m)	0,75 KW 220/230 VAC, 50 Hz, Single Phase	6,1***

\* "Posi-Check®" valve design, "Posi-Check®" guards against pressure loss when valve is shifted from "advance" to "hold" position.

\*\* Shipped with 3,8 l of oil (3,4 l usable).

\*\*\* Shipped with 7,6 l of oil.

∞ Not to be used for lifting. Best suited for crimping, pressing & punching applications.

# Intensifier

## HYDRAULIC

Pressure ratio 5:1

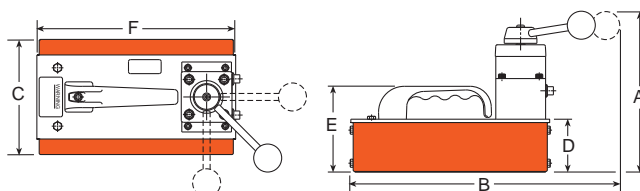
Converts low-pressure portable hydraulic pumps or on-board hydraulic systems, into high pressure power sources.

## PUMPS

- Applications include utilities, railroads, construction, riggers and others.
- Operates single- or double-acting cylinders, jacks, and tools such as crimpers, spreaders, cable cutters, or tire tools.
- May be used to operate two separate, single-acting tools (with integral valves) independently, without need for additional manifold.
- Compact and rugged for use inside a utility vehicle aerial bucket or stowing in a vehicle.
- Control valve included. Other Power Team valves available as an option to suit your specific application, if needed; consult factory.
- No reservoir level to maintain; uses low pressure system as oil supply.
- Has 3/8" NPTF ports; compatible with standard fittings for low and high pressure systems.



700 bar



Pump No.	Output Flow at 700 bar	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Prod. Wt. (kg)
<b>HB44-Series</b>	0,7 l/min.	210	368	156	70	114	267	7,2

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Output Flow Valve Function	Input Flow Range (l/min)	Input Flow Pressure (bar)	Output Flow Range (l/min)
Single-Acting	Hydraulic intensifier for single-acting systems	<b>HB443</b>	3-Way 3-Position	9520*	Advance Hold Return	0 - 38	20 - 138	0 - 9,5
Single-Acting/ Double-Acting	Hydraulic intensifier for double-acting systems	<b>HB444</b>	4-Way 3-Position	9506*	Advance Hold Return	0 - 38	20 - 138	0 - 9,5
Double-Acting	Hydraulic intensifier for double-acting torque wrench tools	<b>HB445-RR</b>	4-Way 3-Position	—	Advance Hold Return	0 - 38	20 - 138	0 - 9,5

† For maximum efficiency, recommended input flow is 19 l/min at a maximum pressure of 140 bar. Higher flows and/or pressures must be compensated for at the system pump (e.g., relief valve, variable flow devices, etc.).

\* Posi-Check® valve design, "Posi-Check®" guards against pressure loss when valve is shifted from "advance" position to "hold" position.

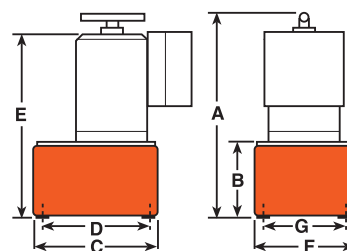
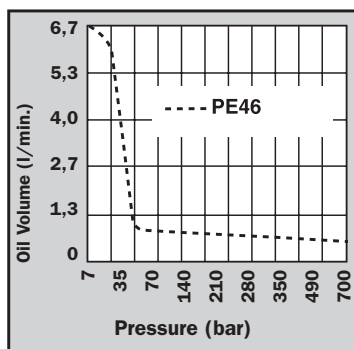


PE462S



PE464

- 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, 3,450 rpm single-phase, 50 Hz thermal protected induction motor that starts under full load. Noise level of 77-81 dBA.
- All equipped with a 3,1 m remote control except PE462S which has a 7,6 m remote control.
- 24 volt control circuit on all units with remote control.
- CSA rated for intermittent duty.



## Electric Pump

### HYDRAULIC PE46 SERIES

**0,75/min - 1,12 kW**  
**Two-speed**

Best suited for under the roof maintenance and production applications.

**PUMPS**

Pump No.	Max. Pressure Output bar	rpm	Noise level at Idle and 700 bar (dBA)	Amp Draw 220 V - at 700 bar (A)	Oil Del. (l/min. at...) <sup>†</sup>				Dimensions (mm)							Prod. Wt. w/Oil (kg)
					0 bar	7 bar	350 bar	700 bar	A	B	C	D	E	F	G	
PE46-Series	700	2.875	77/81	11.6	8,2	7,4	0,8	0,75	499	173	292	254	378	241	203	35,8
PE46-220	700	2.875	77/81*	11.6	8,2	7,4	0,8	0,75	499	173	292	254	378	241	203	41,3

\* Measured at 0,9 m distance, all sides.

Amp Draw 115V at 700 bar: 25 Amps.

<sup>†</sup> Typical delivery. Actual flow will vary with field conditions.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Control Switch <sup>†††</sup>	Motor	Reservoir Usable <sup>***</sup> (l)
Single-Acting	Base model 1,12 KW pump with 9,5 l metal reservoir.	<b>PE462-50-220</b>	3-Way	9584	Advance Return <sup>†</sup>	Remote Motor Control (3,1 m) on/off	1,12 KW, 220 VAC* 50 Hz, Single Phase	9,7
Single-Acting	PE462-50- 220, except has solenoid valve.	<b>PE462S-50-220</b>	3-Way	9570	Advance Return**	Remote Motor/ Valve (7,6 m)	1,12 KW, 220 VAC* 50 Hz, Single Phase	9,7
Single-Acting	PE462-50-220, except has "dump valve"	<b>PE462A-50-220<sup>∞</sup></b>	Auto/Dump 3-Way	9610	Advance Return	Remote Motor Control (3,1 m) on/off	1,12 KW, 220 VAC* 50 Hz, Single Phase	9,7
<sup>††</sup> Single-Acting/ Double-Acting	PE462-50-220, except has 9500 double-acting valve.	<b>PE464-50-220</b>	4-Way	9500	Advance Hold Return <sup>†</sup>	Remote Motor Control (3,1 m) on/off	1,12 KW, 220 VAC* 50 Hz, Single Phase	9,7
Double-Acting	PE462S-50-220, except has 9592 double-acting valve.	<b>PE464S-50-220</b>	3/4-Way	9552	Advance Return**	Remote Motor/ Valve (3,1m)	1,12 KW, 220 VAC* 50 Hz, Single Phase	9,7

\* Available with 115 V, 60 Hz motor (to order, remove suffix "50-220" behind pump order number). Specify voltage when ordering. For 230V, 60 Hz motor (to order, change suffix to "-230" behind pump order number).

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

\*\*\* Usable oil is calculated with the oil fill at the recommended level of 13 mm below reservoir cover plate.

<sup>†</sup> "Advance" position holds pressure with motor shut off.

"Return" position returns cylinder.

<sup>††</sup> For single-acting operation, off the electric motor when manual valve in "Retract" position.

<sup>†††</sup> 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.

# Electric Pump

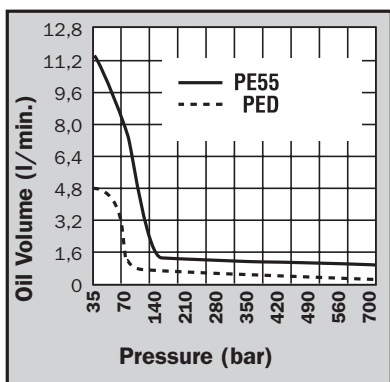
## HYDRAULIC PE55 VANGUARD®

**0,92 l/min - 0,84 kW**

Heavy duty multiple-applications pump. Heavy construction and concrete stressing. Low voltage starting possible.

- 0,84 KW, 12,000 rpm, 220 volt, 50 Hz universal motor; draws 15 amps at full load, starts at reduced voltage. CSA rated for intermittent duty.
- 3,1 m remote motor control (except PE552S which has a 7,6 m remote motor and valve control).
- True unloading valve achieves greater pump efficiency, allowing higher flows at maximum pressure.
- Reservoirs available in sizes up to 38 liters. Consult factory.
- 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.

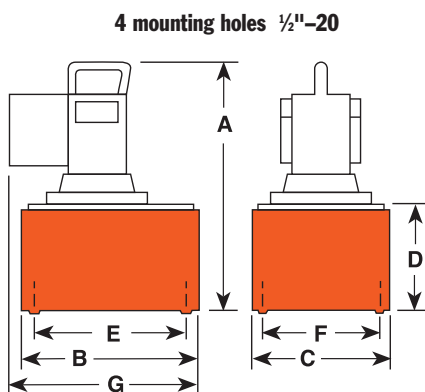
## PUMPS



**PE554W**  
Weather-resistant pump



**PE55TWP**  
Torque Wrench  
Applications



**PE554**  
Heavy duty pump

700 bar

Pump No.	Max. Pressure Output bar	rpm	Noise level Idle and at 700 bar (dBA)	Amp Draw at 700 bar (220 V) (A)	Oil Del. (l/min at...)											Prod. Wt. w/Oil (kg)
					0 bar	50 bar	350 bar	700 bar	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	
PE55-Series PE55-220	700	12,000	90/89*	15	11,5	7,2	1,2	0,92	464 520	292	241	178	254	203	356 391	29,4

\*Noise level reading (dBA) measured at a 0,9 m distance, all sides.

Amp draw at 700 bar, 115 volts 60 Hz is 25 Amps.

# Electric Pump

HYDRAULIC PE55 VANGUARD®

0,92 l/min - 0,84 kW

Heavy duty multiple-applications pump. Heavy construction and concrete stressing. Low voltage starting possible.



700 bar  
LR19814

PUMPS

For use with Cyl. Type	Description	Order No. ***	Reservoir Valve Type	Valve No.	Valve Function	Control Switch ††	Motor	Usable (l)
Single-Acting	Base model 0,84 KW pump with 9,5 l reservoir, remote motor control & 3-way valve.	PE552-50-220	3-Way	9582	Advance Return**	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Single-Acting	PE552-50-220, except also has solenoid operated remote valve.	PE552S-50-220	3-Way	9570	Advance Hold Return	Remote Motor & Valve	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Single-Acting	PE552-50-220, except has "Auto Dump" valve.	PE552A-50-220 ∞	Auto/Dump	9610	Advance Return	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Single-Acting	0,84 KW pump with 9,5 l reservoir. Valve has "Posi-check" feature.	PE553-50-220	3-Way†	9520	Advance Hold Return	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Single-Acting/ Double-Acting	Base model 0,84 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	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Single-Acting/ Double-Acting	PE554-50-220, except has 9500 tandem center valve.	PE554T-50-22.0	4-Way	9500	Advance Hold Return	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Single-Acting/ Double-Acting	For use with single-acting Spring Seat, Stressing Jack or double-acting cylinder.	PE554P-50-220	4-Way	9500	Advance Hold Return	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Double-Acting	For use with single- or double-acting Power Seat, Stressing Jacks ONLY.	PE554PT-50-220	4-Way	9628	Advance Hold Sequenced Return	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Double-Acting	Pump suitable to run multiple spring return tools	PE554C-50-220	4-Way	9511†††	Advance Hold Return	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Double-Acting	Pump equipped with 3/4-way solenoid valve.	PE554S-50-220	3/4-Way	9552	Advance Hold Return	Remote Motor & Valve	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6
Single-Acting/ Double-Acting	Same as PE554-50-220, except with weather protection enclosure	PE554W-50-220	4-Way†	9506	Advance Hold Return	Remote Motor	0,84 KW*, 220 VAC 50Hz, Single Phase	8,6

\* Pumps available with 115 volt, 60 Hz motors. (to order remove the -50-220 suffix from the order code).

\*\* Holds with motor shut off.

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

† Valves have "Posi-Check®" feature.  
Universal motor run on 220V/50Hz or 60Hz/Single phase.

†† Control switch wired with line voltage. All remotes are 3,1m long except for PE552S which is 7,6m 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.

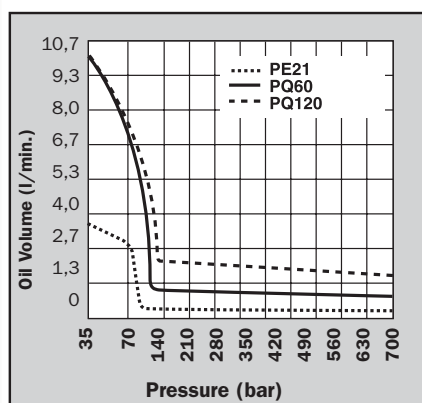
# Electric Pump

## HYDRAULIC PQ60 SERIES

0,98 l/min - 1,49 kW

Pump designed specifically for heavy duty, extended cycle operation.

## PUMPS



- For operating single- or double-acting cylinders.
- Metal shroud keeps dirt and moisture out of motor and electrical components.
- 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%.
- Equipped with a 1.49KW, 1,725rpm, Single-phase, 50Hz induction motor.



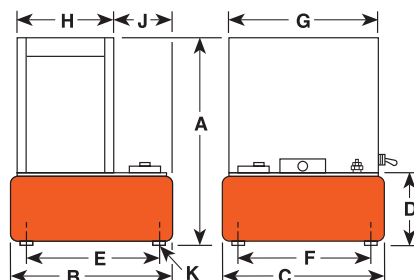
PQ603



700 bar



PQ604S



Pump No.	Max. Pressure	rpm	Noise level at Idle and 700 bar (dBA)	Amp Draw at 700 bar (A)	7 bar	Oil Del. (l/min at..)													Prod. Wt. w/Oil (kg)
	Output bar				70 bar	350 bar	700 bar	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K*** (in)		
PQ60 Series	700	1.437	74/76*	See below	12,0	1,1	1,1	0,98	638	362	394	184	308	338	373	237	122,2	1/2-20 UNF	76,6**

Amp draw 220V at 700 bar: 11 Amps.

Amp draw 115V at 700 bar: 22 Amps.

\* Measured at a 0,9 m 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.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Max. Amp Draw at 700 bar (A)	Motor	Reservoir Usable (l)
Single-Acting	1,49 KW pump with 21,6 l reservoir and manual valve,	<b>PQ603-50-220</b>	3-Way	9520*	Advance Hold Return	230V - 11 amps	1,49 KW, 220 Volt 50 Hz, Single phase	20
Single-Acting	PQ603-50-220, except has solenoid operated remote valve.	<b>PQ603S-50-220</b>	3-Way	9599†	Advance Hold Return	230V - 11 amps	1,49 KW, 220 Volt 50 Hz, Single phase	20
†† Single-Acting Double-Acting	1,49 KW pump with 21,6 l reservoir and manual valve.	<b>PQ604-50-220</b>	4-Way	9506*	Advance Hold Return	230V - 11 amps	1,49 KW, 220 Volt 50 Hz, Single phase	20
Double-Acting	PQ604-50-220, except has solenoid operated remote valve.	<b>PQ604S-50-220</b>	4-Way	9512†	Advance Hold Return	230V - 11 amps	1,49 KW, 220 Volt 50 Hz, Single phase	20

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

† 24V Solenoid valve. Pump is equipped with a remote control switch with 3,1 m cord.

†† For single-acting operation, off the electric motor when manual valve in "Retract" position.

Available with 230 Volt, 60Hz motor (to order, remove suffix "-50-220" behind pump order number)

Available with 115 Volt, 60Hz motor (to order, remove suffix "-50-220" & add "-115" behind pump order number)



PQ1203

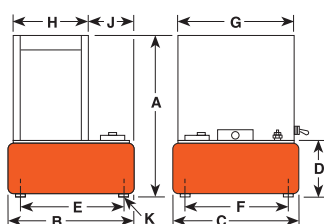


PQ1204S

700 bar



- 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, 1,725rpm 380 volt, 50 Hz. 3 Phase induction motor. Other electrical configurations are available. See ordering information below.
- 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.
- Pumps operate below maximum OSHA noise limitation.

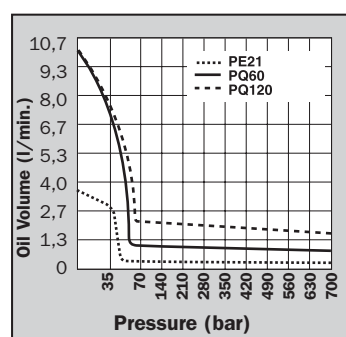


## Electric Pump

### HYDRAULIC PQ120 SERIES

**2,0 l/min - 2,24 kW**

Low speed, high torque pump designed specifically for heavy duty, extended cycle operation. Ideal for press operation.



**PUMPS**

Pump No.	Max. Pressure		Noise level at Idle and 700 bar (dBA)	Amp Draw at 700 bar (A)	Oil Del. (l/min at...)															Prod. Wt. w/Oil (kg)
	Output bar	rpm			7 bar	70 bar	350 bar	700 bar	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K*** (in)		
PQ120-Series	700	1.437	73/78*	See below	12,0	2,6	2,1	2,0	638	362	394	184	308	338	373	237	122,2	<sup>1</sup> / <sub>2</sub> -20 UNF	74,3**	

\* Measured at a 0,9 m distance, all sides.

\*\* Total weight with oil and 3-way solenoid valve. Subtract 4,5 kg to obtain weight of pump with manual valve.

\*\*\* For 50,8 mm dia. swivel casters, order (4) No. 10494.

Amp draw 230V at 700 bar: 10.5 Amps.

Amp draw 460V at 700 bar: 5.3 Amps.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Motor	Reservoir Usable (l)
Single-Acting	2,24 KW pump with 21,6 l reservoir and manual valve.	<b>PQ1203-50-380</b>	3-Way	9520*	Advance Hold Return	2,24 KW, 380 Volt 50 Hz, 3 Phase	20
Single-Acting	PQ1203-50-380, except has solenoid operated remote valve.	<b>PQ1203S-50-380</b>	3-Way	9599†	Advance Hold Return	2,24 KW, 380 Volt 50 Hz, 3 Phase	20
†† Single-Acting/Double-Acting	2,24 KW pump with 21,6 l reservoir and manual valve.	<b>PQ1204-50-380</b>	4-Way	9506*	Advance Hold Return	2,24 KW, 380 Volt 50 Hz, 3 Phase	20
Double-Acting	PQ1204-50-380, except has solenoid operated remote valve.	<b>PQ1204S-50-380</b>	4-Way	9512†	Advance Hold Return	2,24 KW, 380 Volt 50 Hz, 3 Phase	20

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

† 24V Solenoid valve. Pump is equipped with a remote control switch with 3,1 m cord.

†† For single-acting operation, off the electric motor when manual valve in "Retract" position.

Available with 460 Volt, 60Hz, 3 phase motors (to order, remove suffix "50-380" behind pump order number), suitable for 440V, 50Hz, 3 phase  
For 230 Volt, 60Hz, 3 phase motors (to order, change suffix to "-230" behind pump order number)  
380V/50Hz/3 phase also suitable for 415V/50Hz/3 phase.

# Electric Pump

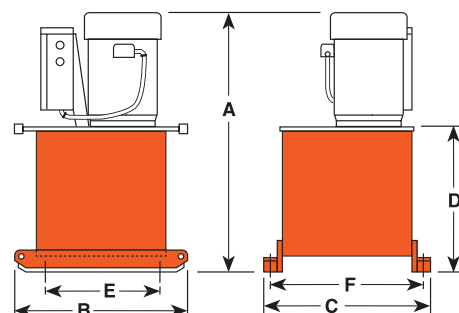
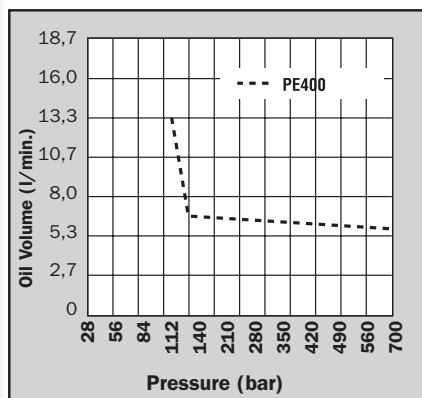
## HYDRAULIC PE400 SERIES

6,9 l/min - 7,46 kW

High tonnage double-acting cylinders, Single or multiple cylinder applications.  
Up to 1,000 Tons

- Two-speed high output pump delivers up to 20 l/min of oil.
- 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 has a 4-way/3-position manual valve. The PE4004S has a 4-way/3-position solenoid valve with a 24 volt remote hand switch.
- External pressure relief valve is adjustable from 100 to 700 bar.
- Heavy duty 101,6mm dia. casters assure easy maneuvering.
- 75,7 l (64,4 l usable) reservoir has a low oil level sight gauge.
- Powered by a dual voltage 7,46 KW, 3 phase, 1,725rpm induction motor.
- 3 phase motor has all the electrical components necessary to operate the pump. The customer has no hidden charges when making purchase.
- Deliver 20 l/min. of oil at 15 bar, 6,9 l/min. of oil at 700 bar.

## PUMPS



Pump No.	Max. Pressure Output bar	rpm	Noise level at Idle and 700 bar (dBA)	Amp Draw at 700 bar (A)	Oil Del. (l/min at..)				E				F	Prod. Wt. w/Oil (kg)	
					15 bar	90 bar	350 bar	700 bar	A* (mm)	B (mm)	C (mm)	D (mm)	Caster Mfg. (mm)		Caster Mfg. (mm)
PE4004-50-380	700	1.437	73/80	See below	20	19,7	7,4	6,9	924	635	610	540	394	546	223
PE4004S-50-380	700	1.437	73/80		20	19,7	7,4	6,9	924	635	610	540	394	546	229

\* Add 127mm and 3,6 kg when casters are mounted. (Units are supplied with four 102 mm dia. swivel casters.)

Amp draw 230V at 700 bar: 34 Amps.

Amp draw 460V at 700 bar: 17 Amps.

For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Motor††	Reservoir Usable (l)
††† Single-Acting/ Double-Acting	7,46 KW pump with 75,5 l reservoir and manual valve.	<b>PE4004-50-380</b>	4-Way	9506	Advance Hold Return	7,46 KW, 380 volt 50 Hz, 3 Phase	64,4†
Double-Acting	PE4004, except has solenoid operated remote valve.	<b>PE4004S-50-380</b>	4-Way	9512*	Advance Hold Return	7,46 KW, 380 volt 50 Hz, 3 Phase	64,4†

\* 24V Solenoid valve with remote control.

† Usable oil is calculated with oil fill at recommended level at 57 mm below cover plate.

380V/50Hz/3 phase also suitable for 415V/50Hz/3 phase.

†† PE400 series also available in 230V, 60Hz and 460V, 60Hz. Please specify when ordering. Example: 460V, 60Hz order PE4004 (also suitable for 440V, 50Hz, 3 phase) or for 230V, 60Hz order PE4004-230.

††† For single-acting operation, off the electric motor when manual valve in "Retract" position.

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