

# Electric Hydraulic Pumps

30 cu. in./min. — 1 hp (PE30 Vanguard® Series)

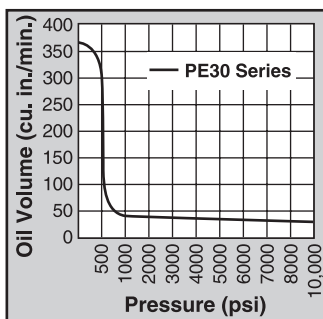
Two-speed high performance pump at a low price. Ideal for maintenance and construction applications where low voltage is a concern. Generally recommended for cylinders up to 100 tons.

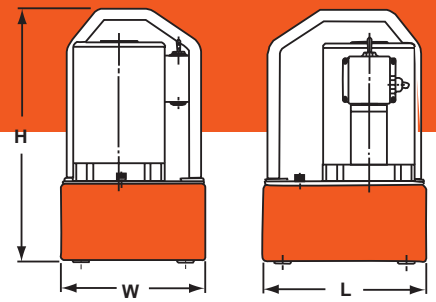


- Two-speed Vanguard® 30 series pumps deliver a powerful punch to operate single-acting or double-acting cylinders.
- Rugged all metal construction; integral roll cage protects pump from abuse.
- Equipped with a 1 hp, single phase, permanent magnet motor.
- Choice of 110/115 volt or 220/230 volt, 50/60 Hz.
- Require relatively low voltage, making them ideal for use in general construction applications. Amp draw at 10,000 psi only 13 amps @ 110/115 volts and 6.5 amps @ 220/230 volts.

- Pump will start under full load even when voltage is reduced to 50% of nominal rating.
- High performance to weight ratio. Deliver up to 30 cu. in. of oil per minute at maximum operating pressure of 10,000 psi.
- Choice of 1¼ gallon or 1½ gallon aluminum reservoirs.
- Quiet operation: 82 dBA @ 10,000 psi and 87 dBA @ 0 psi. CSA rated for intermittent duty.
- For faster cylinder return, the 9520 “Posi-Check®” style manual valve has improved porting.
- All models having remote controls and/or solenoid valves feature 24 volt controls. An internal pressure regulator is optional on all pumps.
- Portable - all metal hydraulic pump weighs only 41 lbs. with oil. (1½ gallon reservoir).

## PERFORMANCE





## SPECIFICATIONS AND DIMENSIONS

Pump No.	Maximum Pressure Output	dBA at Idle & 10,000 psi	Amp Draw 115V at 10,000 psi	Oil Del. (cu. in./min. @)					Overall Dimensions	Prod. Wt. With Oil (lbs.)
				100 psi	500 psi	1,000 psi	5,000 psi	10,000 psi		
PE30 Series w/1¼ gal. res.	10,000 psi	87/82	13	300	200	44	38	30	10"L x 9"W x 16"H	41
PE30 Series w/1¾ gal. res.	10,000 psi	87/82	13	300	200	44	38	30	13½"L x 9½"W x 16½"H	49

## ORDERING INFORMATION

See current price list for shipping weights.

### SINGLE-ACTING

Description	Order No.	Valve			Control Switch ††	Motor (4,000 rpm) ††	Reservoir (Usable)
		Type	No.	Function			
Base model 1 hp pump with 1¼ gal. reservoir & 2 position valve.	PE302 ∞	3-Way, 2 Pos.	9584	Advance Return	On/Off/Pulse Switch	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE302, except has 1¾ gal. reservoir.	PE302-2	3-Way, 2 Pos.	9584	Advance Return	On/Off/Pulse Switch	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***
PE302, except has remote motor control.	PE302R	3-Way, 2 Pos.	9584	Advance Return	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE302R, except has 1¾ gal. reservoir.	PE302R-2	3-Way, 2 Pos.	9584	Advance Return	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***
PE302R, except also has solenoid operated remote valve.	PE302S†	3-Way, 2 Pos.	9579	Advance Return	Remote Motor & Valve (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE302S, except has 1¾ gal. reservoir.	PE302S-2†	3-Way, 2 Pos.	9579	Advance Return	Remote Motor & Valve (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***
PE302, except has "Auto Dump" valve.	PE302A	Auto Dump	9610	Automatic Pilot Operation	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE302A, except has 1¾ gal. reservoir.	PE302A-2	Auto Dump	9610	Automatic Pilot Operation	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***
Base model 1 hp pump with 1¼ gal. reservoir & 3 position valve.	PE303	3-Way, 3 Pos.	9520*	Advance Hold Return	On/Off/Pulse Switch	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE303, except has 1¾ gal. reservoir.	PE303-2	3-Way, 3 Pos.	9520*	Advance Hold Return	On/Off/Pulse Switch	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***
PE303, except has remote motor control.	PE303R	3-Way, 3 Pos.	9520*	Advance Hold Return	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE303R, except has 1¾ gal. reservoir.	PE303R-2	3-Way, 3 Pos.	9520*	Advance Hold Return	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***

### DOUBLE-ACTING

Description	Order No.	Valve			Control Switch	Motor (4,000 rpm) ††	Reservoir (Usable)
		Type	No.	Function			
Base model 1 hp pump with 1¼ gal. reservoir & 4-way valve for double-acting systems.	PE304	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	On/Off/Pulse Switch	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE304, except has 1¾ gal. reservoir.	PE304-2	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	On/Off/Pulse Switch	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***
PE304, except has remote motor control.	PE304R	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	280 cu. in.**
PE304R, except has 1¾ gal. reservoir.	PE304R-2	4-Way, 3 Pos. Tandem Ctr.	9506*	Advance Hold Return	Remote Motor Control (10 ft.)	1 hp 110/115 VAC, 50/60 Hz, Single Phase	380 cu. in.***

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

\*\* Shipped with 1 gal. of oil (231 cu. in., 210 usable).

\*\*\* Shipped with 2 gal. of oil.

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

† 115 volt, 60 Hz.

†† For 220/230 volt, 50/60 Hz. add suffix "- 220" (example PE302-220).