

Electric Hydraulic Pumps

18 cu. in./min. — ½ hp (PE18 Vanguard Jr.® Series)

Vanguard Jr.® pumps are very light weight and compact. Ideal for maintenance and construction applications where low voltage is a concern. Generally recommended for cylinders up to 55 ton and small hydraulic tools.



Hoses, Fittings & Gauges Pages 74-80

Pump Accessories Pages 161-165

Cylinder/Pump Speed/Selection Chart Pages 178

Choosing The Right Pump Pages 181-184

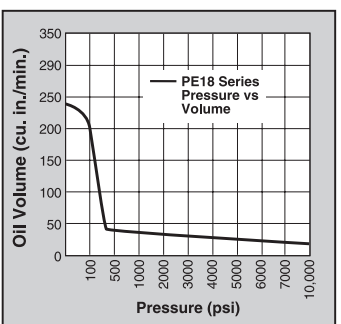
- Vanguard Jr.® pumps provide two-speed high performance in a light-weight, compact package.
- Ideal for use with small hydraulically powered tools.
- For use with single- or double-acting cylinders at operating pressures to 10,000 psi.
- Gauge port provided on pump. Metal reservoir on all models.
- Equipped with a ½ hp, 110/115 volt, 60/50 Hz single phase 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 10 foot remote control except PE183C which has 25 foot remote control.

- CSA rated for intermittent duty. High noise level of 85-90 dBA.

For operating hydraulic crimping, cutting or other tools:

- **No. PE183C** - For crimping or pressing applications. Has special electrical circuitry to pulse/advance, hold at full pressure, build to a predetermined pressure, release and reset circuit. Features separate emergency return switch.
- **No. PE184C** - Allows you to alternately operate a spring-return cutting and/or crimping tool without disconnecting either tool. Select port connection with manual 4-way valve, start pump with remote control hand switch and extend connected tool. When hand switch is switched to off, pump stops and automatic valve opens, allowing tool to return. In center (neutral) position, manual control valve holds tool in position at time valve is shifted.

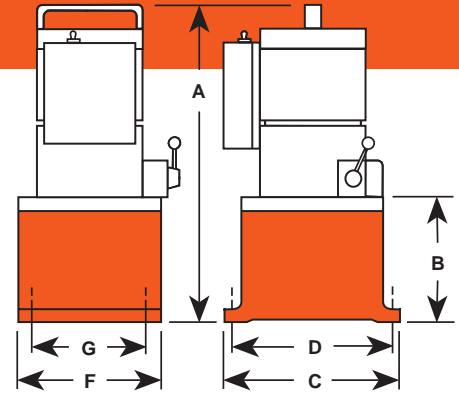
PERFORMANCE



DC Conversion Kit*

Order kit No. 205601 to convert PE18 series pumps from 115/230 volt AC to 115/230 volt DC. Kit includes a heavy-duty ON/OFF switch for both AC and DC voltage hook-ups.

* For use only with PE182, PE183, PE184 and PE184-2 when no remote control is used.



SPECIFICATIONS AND DIMENSIONS

Pump No.	Maximum Pressure Output	rpm	dBA at Idle & 10,000 psi	Amp Draw 115V at 10,000 psi	Oil Del. (cu. in./min. @) †				Dimensions (in.)						Prod. Weight with Oil (lbs.)
					0 psi	100 psi	5,000 psi	10,000 psi	A	B	C	D	F	G	
PE182, PE183, PE183A, PE184	10,000 psi	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 $\frac{1}{4}$	8	7 $\frac{1}{2}$	6	5 $\frac{1}{2}$	30
PE183-2*, PE184-2*	10,000 psi	12,000	85/90**	10.2 Amps	230	190	25	18	18 $\frac{1}{2}$	7 $\frac{1}{4}$	11 $\frac{1}{2}$	10	9 $\frac{1}{2}$	8	42
PE183C ††	10,000 psi	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 $\frac{1}{4}$	8	7 $\frac{1}{2}$	6	5 $\frac{1}{2}$	30
PE184C ††	10,000 psi	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 $\frac{1}{4}$	8	7 $\frac{1}{2}$	6	5 $\frac{1}{2}$	30

* 2 $\frac{1}{2}$ gal. reservoir.

** Measured at 3 ft. distance, all sides.

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

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

ORDERING INFORMATION

See current price list for shipping weights.

SINGLE-ACTING

Description	Order No.	Valve		Control Switch ††	Motor	Reservoir (Usable)
		Type	Function			
Base model pump has $\frac{1}{2}$ hp pump with 2-Way valve and $\frac{1}{2}$ gal. reservoir.	PE182	2-Way	Advance Return†	Remote Motor Control (10 ft.) on/off	1 $\frac{1}{2}$ hp 110/115 VAC* 50/60 Hz A.C., Single Phase	104 cu. in.
PE182, except has 3-way valve.	PE183	3-Way	Advance Hold Return	Remote Motor Control (10 ft.) on/off		104 cu. in.
PE183, except has 2 gal. reservoir.	PE183-2	3-Way	Advance Hold Return	Remote Control (10 ft.)		525 cu. in.††
PE183, except has "dump valve".	PE183A ∞	Auto/Dump Pump	Advance Return	Remote (10 ft.)		104 cu. in.
Special crimping pump. See details on page 44.	PE183C ∞	Special, for crimping only	Advance Hold Return	Remote Motor Control (25 ft.) on/off		104 cu. in.

DOUBLE-ACTING

Description	Order No.	Valve		Control Switch ††	Motor	Reservoir (Usable)
		Type	Function			
Base model pump has $\frac{1}{2}$ hp pump for double-acting systems with $\frac{1}{2}$ gal. reservoir.	PE184	4-Way	Advance Hold Return†	Remote Motor Control (10 ft.) on/off	1 $\frac{1}{2}$ hp 110/115 VAC* 50/60 Hz A.C., Single Phase	104 cu. in.
PE184, except with 2 gal. reservoir.	PE184-2	4-Way	Advance Hold Return†	Remote Motor Control (10 ft.) on/off		525 cu. in.††
Special crimping pump. See details on page 44.	PE184C*	4-Way	Advance Return	Remote Control (10 ft.) on/off		104 cu. in.

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

** Available with 220 Volt, 60/50 Hz motor (to order, place suffix "50-220" behind pump order number). Specify voltage when ordering.

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

†† Pumps supplied with 2 gal. oil (usable oil is 355 cu. in.), will hold 2 $\frac{1}{2}$ gal. when filled to within $\frac{1}{2}$ " below reservoir cover plate.

∞ Not to be used for lifting.