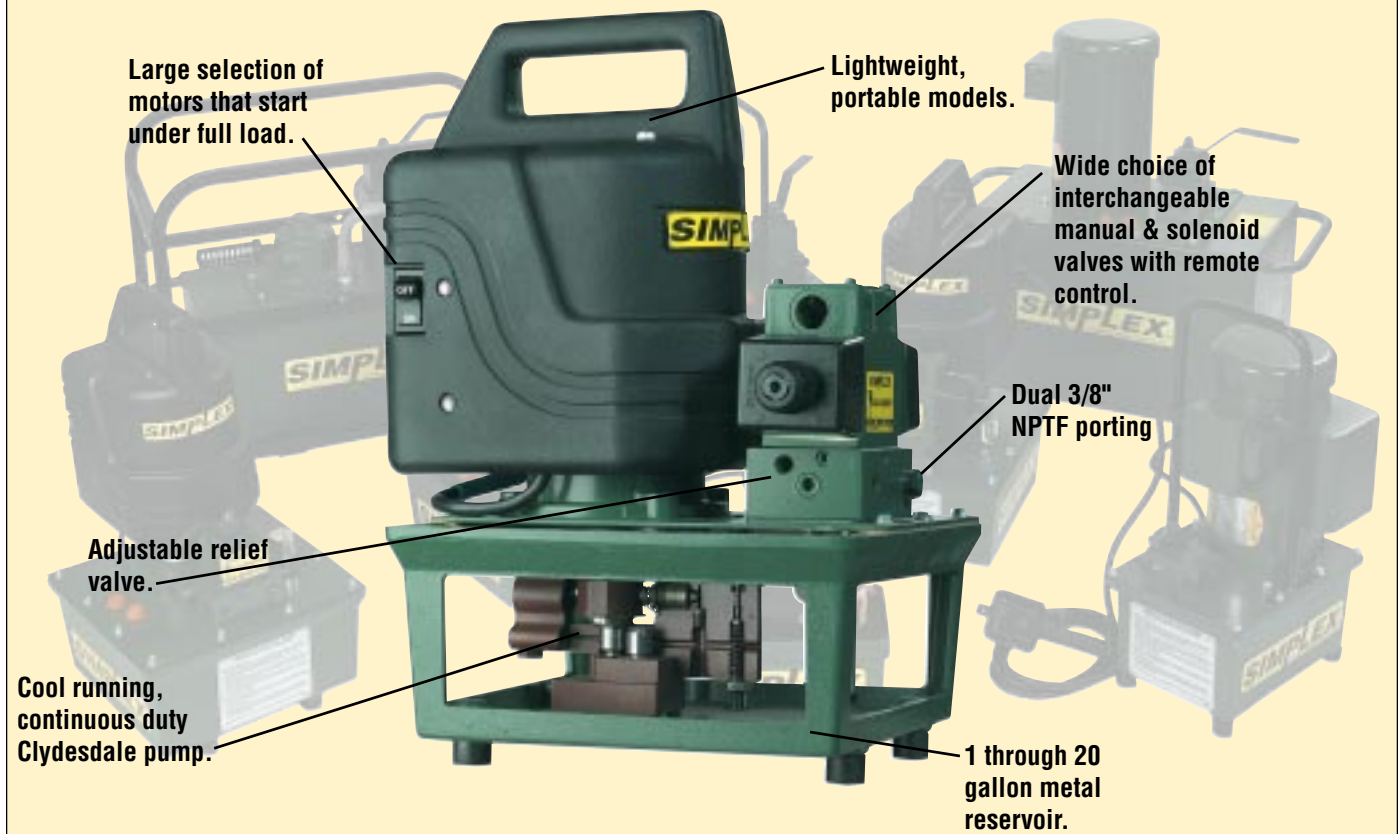


THE SIMPLEX POWER PUMP



THE SIMPLEX PLUS

■ Wide Variety

Simplex offers more pump models, motor selections, valve styles, reservoir sizes, accessories & controls to meet your everyday needs.

■ Maximum Flexibility

Adjustable pressure relief valves for variable pressure settings, plus many interchangeable control valves and reservoirs for a wide range of applications. **Dual Voltage & Dual Hertz** electric motors for applications requiring alternate power sources.

■ Built for Long Life & Continuous Duty

Unified "Clydesdale" chassis provides high strength, **fewer potential leak points** and solid construction for severe duty.

■ High Performance/Fast Cycle Times

Crossover pressure up to 2000 PSI. Provides high, first stage flows well into the work cycle. This extra power provides higher speeds in **Prestressing, Bending, Crimping, Compressing & Post-Tensioning applications.**

■ Cool Running & Dependable Performance

High first stage performance is achieved through field proven **Gear Pump** technology. In addition to gear pumps, an unloading valve passes **full power** to the second stage once crossover pressure is reached. No power is lost and less heat is generated.

■ Quiet Operation

Low motor RPM, **internally lubricated bearings**, and close coupled motor mounting make these pumps among the quietest on the market. (Approximately 80dBA at 10,000 PSI.)

■ Starts Under Full Load/Runs on Reduced Voltage

Simplex pump motors run well within their recommended duty factors **drawing less amps, creating less heat, and lasting longer** than competitive pump motors.

■ What Is SUC-O-MATIC™

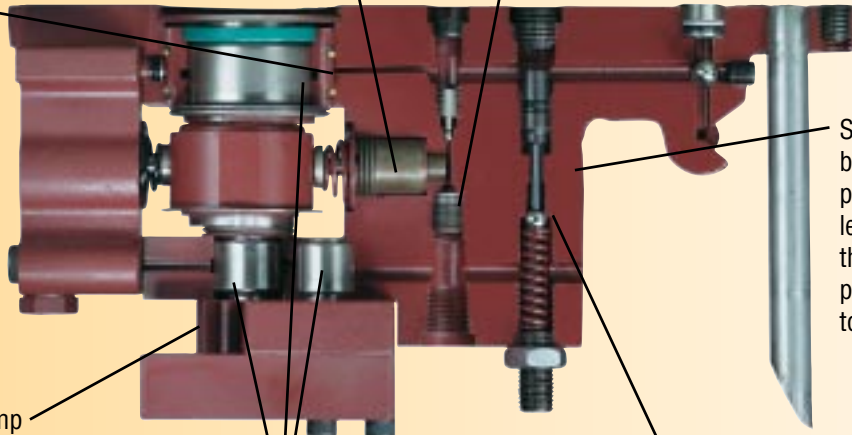
A feature that draws oil out of any single-acting cylinder. In the retract position, SUC-O-MATIC™ pumps generate a 12 psi vacuum that fully retracts any single-acting load return cylinder automatically, and provides faster retraction of spring return cylinders.

CLYDESDALE TECHNOLOGY IS THE HEART OF ALL SIMPLEX PUMPS!

Only Simplex Clydesdale pumps incorporate an oiler system that sprays the upper unit with oil, and keeps critical components lubricated and running cool, especially when most of the reservoir oil is being used at the tool.

Sleeved piston bores allow easy replacement of precision components without replacing the entire pump body.

High pressure ball seats are designed as replaceable cartridges rather than machined into the body. Worn or damaged seats can be easily replaced without replacing the body.



Solid one piece pump body with internal flow paths eliminates potential leak points caused by threaded fittings, high pressure tubing and bolt together pump bodies.

High efficiency gear pump provides more first stage flow, and higher crossover pressures. Field proven gear pumps run cooler and last longer and are proven to provide years of trouble free service.

Four full size, full complement bearings add life & efficiency while contributing to cool & quiet running.

Unloading valve passes full power to the second stage at crossover. No power is lost holding relief valves open & less heat is generated.

The Clydesdale Plus

Simplex pumps are the world's only 10,000 psi pumps to offer a new standard in pump construction and reliability. Close coupled motor and the one piece Clydesdale chassis combine to offer a rigid unit with minimal flex and wear characteristics. Traditional pumps consist of various components bolted together, and are more susceptible to internal leakage, overheating and expensive repair.

The Clydesdale chassis, field proven gear pumps, replaceable piston bores and ball seats, higher crossovers, and quality motors are just a few of the extras incorporated in all Simplex pumps.



Power Pump Speed Selection Chart

Use the speed chart below and select the right size pump to obtain the cylinder speed you desire.

For multiple cylinder system speeds, divide the inches per minute by number of cylinders in the system.

Cylinder Capacity (Tons)	Inches Per Minute						
		10 Series	20 Series	30 Series	40/70 Series	50 Series	60 Series
10	Loaded	9	9	17	24	45	76
	Unloaded	104	169	169	169	290	290
20/25	Loaded	4	4	8	10	20	33
	Unloaded	50	75	75	75	132	132
30	Loaded	3	3	6	8 1/2	16	26
	Unloaded	39	60	60	60	104	104
50/55	Loaded	2	2	4	5	9	15
	Unloaded	23	35	35	35	61	61
60/75	Loaded	1 1/2	1 1/2	3	3 1/2	6	10
	Unloaded	16	24	24	24	43	43
100	Loaded	1	1	2	3	5	8 1/2
	Unloaded	13	19	19	19	34	34
150	Loaded	1/2	1/2	1	1 3/4	3	5
	Unloaded	7	11	11	11	20	20
200	Loaded	3/8	3/8	3/4	1	2	4
	Unloaded	5	8	8	8	15	15

$$\frac{\text{Inches Per Minute}}{60} = \text{Cylinder Speed In Seconds}$$

PORTABLE & LIGHT WEIGHT ELECTRIC PUMPS

- **Crimping, Cutting, Pressing, Punching & Bending** jobs are performed quickly and easily using 10 or 20 Series dump pumps. The motor runs only in the advancing cycle; spring return cylinders automatically retract when work is complete and motor is switched off.

HEAVY DUTY ELECTRIC PUMPS

- **Multiple Cylinder System, Heavy Lifting, High Tonnage and Large Positioning Jobs** that require **advance, hold and retract** operation are no challenge for 40, 50 & 60 Series pumps equipped with standard manual or solenoid valves.

RUGGED CONSTRUCTION SITE PUMPS

- **Construction Sites, Ship Yards, Railroads and Other Field Applications** require portable pumps that start and run on less than ideal power conditions. The 70 Series pump incorporates a powerful 1.5 HP Permanent Magnet motor that will start under full load and run reliably on long extension cords & reduced voltage. This is the new standard for construction applications.

PRODUCTION PUMPS

- **Production Assembly Lines** are no place for light duty pumps. Add optional **remote control and filtration** to the 70 Series & you have a pump that can take whatever heavy industry can dish out.
- **Clamping, Holding, Lifting, Positioning & Lowering** applications or any job that requires **advance, hold & retract** operations are perfect for 30, 40 or 70 Series pumps equipped with the standard manual or solenoid valves.

GASOLINE MOTOR PUMPS

- **Outdoor Jacking Systems** that require high performance, large oil reservoirs and full control capabilities are ideal applications for PGM Series pumps. Add Simplex 4 port manifolds, pressure gauges or any of a wide variety of Simplex hydraulic accessories, and you are ready to power the largest systems.



PED1000

**NEW!!
POW'R-BUDDY**

**LIGHT WEIGHT
AND ECONOMICAL**



The Simplex Pow'r-Buddy™ easily provides hydraulic power to this nut splitter during routine maintenance of heat treating equipment. "Our crews have to move this equipment all around the plant; the Simplex Pow'r-Buddy™ is easy to carry and never lets us down."

- 5 standard models.
- Two-speed operation provides fast advance.
- Light weight, only 29 lbs., & compact design.
- Adjustable relief for variable pressure settings.
- Integrated handle for easy pick-up.
- 115 VAC 50/60Hz cycle universal motor.
- 24 VAC pendant with 10' cord for user safety.
- Starts under full load & runs on as low as 60 VAC.
- Ideal for use with long extension cords.
- Ideal for use with smaller hydraulic cylinders or tools.
- Integrated gauge port for 2 way valves.
- 2 position valve includes auto retract feature.

PE-10 Series .5 HP Electric Powered Pumps - 10,000 psi capacity

	Model Number	Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate	Weight (lbs.)
			Model	Style		Function			
Sing.-Act	PED1000	1/2	Dump	Auto Retract		Advance/Retract	.5 HP Single Phase 115 VAC 9 amps @ 115 VAC	250 cu. in. @200 PSI	29
	PED1001	1	Dump						30
	PEM1020	1/2	---	Standard	2 Position 2 Way*	Manual		Advance/Retract	31
	PEM1021	1	---		3 Position 4 Way				Manual
D/A	PEM1041	1	VP4			Adv./Hold/Retract			19 cu. in. @10,000 PSI

Pow'r-Buddy pumps for single-acting cylinders come standard with motor pendant switch.

*Includes auto retract feature (with valve open).



At home on any construction site, the Pow'r-Buddy™ starts and runs reliably on long extension cords. This rebar bending application is no challenge for the Simplex industrial grade pump design. "Easy to carry and simple to use, the Pow'r-Buddy™ helps us through tough construction jobs without problems."

**NEW!!
POW'R-BUDDY**

The new Pow'r-Buddy™ is the perfect pump when light weight and easy carrying is desired. The Pow'r-Buddy™ is recommended to power all small and medium sized tools. The universal motor is well suited to start and run reliably on long extension cords and portable generators.

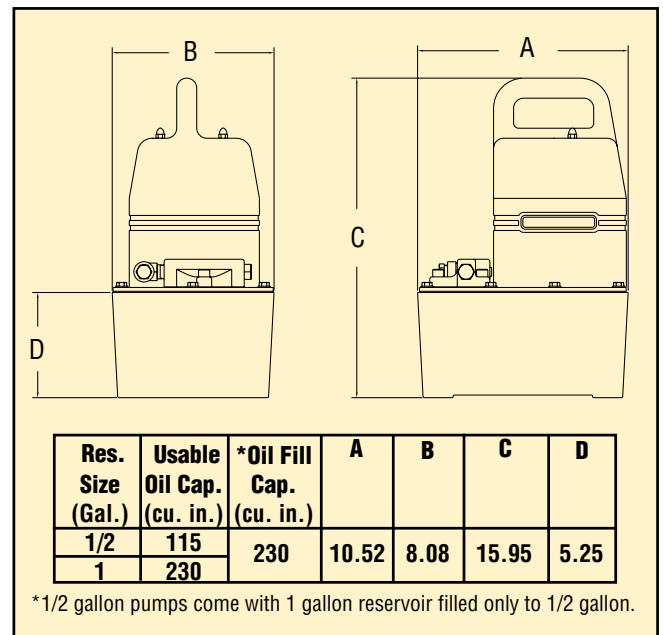
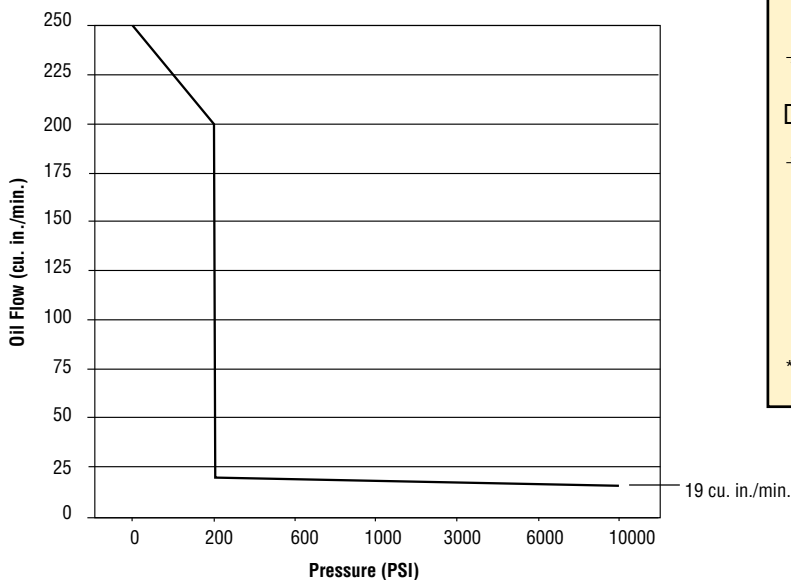


Rebar Benders & Cutter
pg. 74

Hoses
pgs. 70-71

Accessories & Fittings
pgs. 68-72

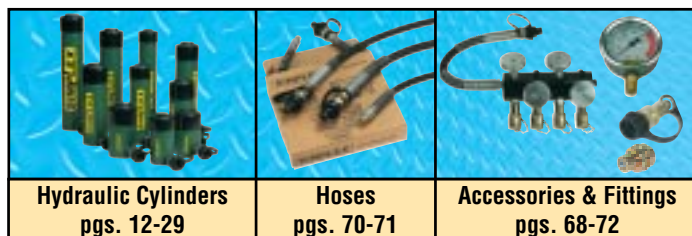
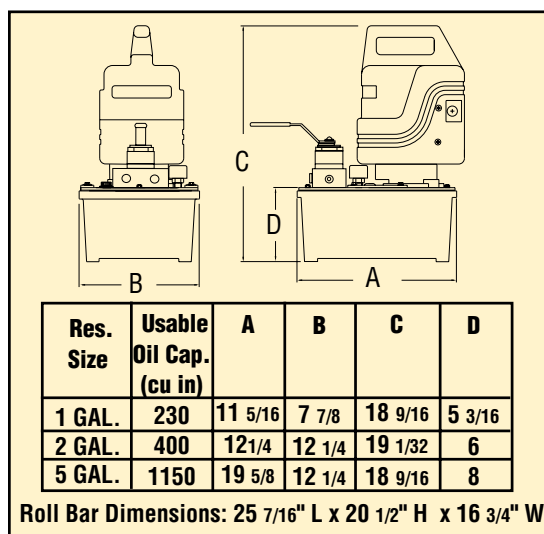
PERFORMANCE CHART





PEM2032

- 16 standard models.
- Rated for continuous duty.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation provides fast advance.
- Higher crossover for faster cylinder cycle.
- Starts under full load.
- Runs reliably on long extension cords.
- Maximum amperage draw 10 amps.
- Adjustable relief for variable pressure settings.
- Dual ports for easier plumbing.
- Quiet Running (80dBA).
- All dump pumps come standard with motor pendant switch.



Hydraulic Cylinders
pgs. 12-29

Hoses
pgs. 70-71

Accessories & Fittings
pgs. 68-72

PE-20 Series .5 HP Electric Powered Pumps - 10,000 psi capacity

	Model Number	Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate @ 115 VAC	Weight (lbs.)	
			Model	Style		Function				
Single-Acting	PED2001	1	Dump	Auto Retract	Remote Actuated	Advance/Retract	0.5 HP Single Phase Permanent Magnet 115 VAC 50/60 Hz 10 amps at 10,000 PSI	400 cu. in. @600 PSI	56	
	PED2002	2	Dump						64	
	PEM2021	1	VP2	Standard	2 Position 2 Way	Manual Lever Actuated			Advance/Retract	56
	PEM2022	2	VP2							64
	PEM2031	1	VP3*	3 Position 3 Way	Remote Solenoid Actuated	Advance/Hold/Retract			62	
	PEM2032	2	VP3*						70	
	PEM2052	2	VPL3*						71	
	PES2031	1	VPS3*						66	
	PES2032	2	VPS3*						73	
	PES2052	2	VPSL3*						74	
Double-Acting	PEM2041	1	VP4	3 Position 4 Way	Manual Lever Actuated	Advance/Hold/Retract	20 cu. in. @10,000 PSI	62		
	PEM2042	2	VP4					70		
	PEM2062	2	VPL4					71		
	PES2041	1	VPS4		Standard			Remote Solenoid Actuated	66	
	PES2042	2	VPS4						73	
	PES2062	2	VPSL4						74	

For more information on valve models, see pages 63-67.

* Includes Suc-O-Matic.



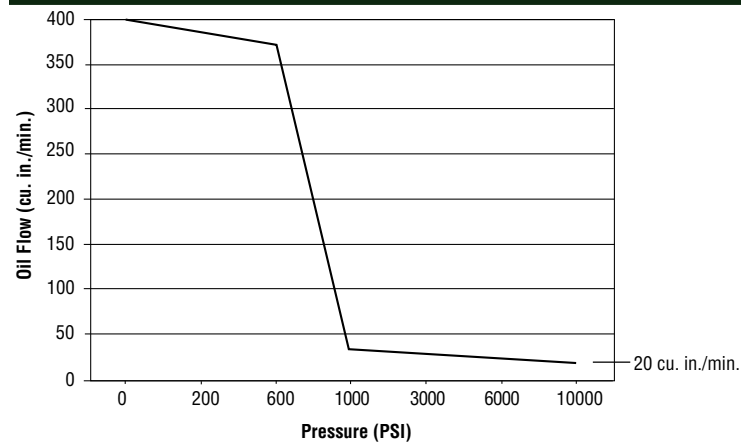
Ship repair demands durable and reliable tools. This Simplex 20 Series pump provides trouble free hydraulic power to a variety of hydraulic cylinders, spreaders and tools. "Shipyards are no place for cheap, second rate pumps; Simplex tools never let us down."

CUSTOM BUILD

Using the chart below you can add roll bars, different size reservoirs or other options.

Description	Model	Selections
Product	P	Power Pump
Motor Control Options	E	E = No Options P = Pendant Switch F = Foot Switch
Valve Style	S	D = Dump S = Solenoid M = Manual
Pump Series	2	.5 HP, 115 VAC 50/60 Hz, Permanent Magnet Motor
Options	1	0 = No Options 4 = Filter only 1 = Roll Bars only 5 = Roll Bars & Filter
Valve Type	3	0 = Dump 4 = 4 Way 3 Position 2 = 2 Way 2 Position 5 = 3 Way Locking Style 3 = 3 Way 3 Position 6 = 4 Way Locking Style
Reservoir Size	2	1 = 1 Gallon 5 = 5 Gallon 2 = 2 Gallon
Motor Voltage		Blank = 115 VAC Single Phase A = 230 VAC Single Phase

PERFORMANCE CHART



20 SERIES POWER PUMP OPTIONS

PUMP CONTROL DEVICES



- PPM - Motor Control Pendant
 - PES - Valve Directional Control Pendant
 - PPS - Motor Control & Valve Directional Control Pendant (dual switches)
- All pendants include 20' cord.



- PFM - Motor Control Foot Switch
- Includes 20' cord.

PUMP PROTECTION



- P03 - Roll Bars
- For 1, 2 & 5 gallon reservoirs only. Order (1) under Options in the Custom Build Chart.



- P04 - External filter for pumps with 3 & 4 way valves.
- Order (4) under Options in the Custom Build Chart. Replacement filter elements, use order number P05E.

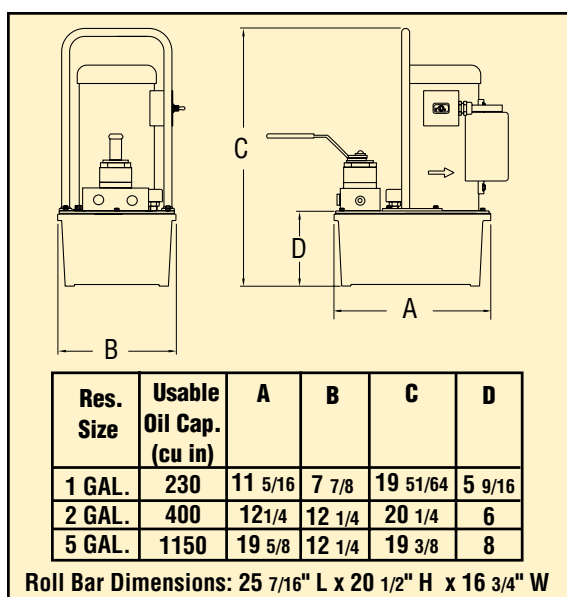
ALL PUMP OPTIONS ARE FACTORY INSTALLED



PPM3135

Quiet running 1725 RPM motors are perfect for in house production jobs. Dual voltage, dual amp induction motors fit a wide variety of applications.

- 16 standard models.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation provides fast advance.
- Higher crossover for faster cylinder cycle.
- Dual voltage 115/230 VAC 50/60 Hz cycle motor.
- Motor starts under full load.
- Runs reliably on 20 amp circuits.
- Maximum amperage draw 12.5 amps at 115 VAC.
- Adjustable relief for variable pressure settings.
- Dual ports for easier plumbing.
- Quiet running (80dBA).
- All dump pumps come standard with motor pendant switch.



PE-30 Series 1 HP Electric Powered Pumps - 10,000 psi capacity

	Model Number	Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate Per Minute	Weight (lbs.)		
			Model	Style		Function					
Single-Acting	PED3001	1	Dump	Auto Retract		Remote Actuated	1 HP Single Phase Induction Motor 115/230 VAC 50/60 Hz 12.5 amps at 10,000 PSI (Factory Wired @ 115 Vac.)	400 cu. in. @900 PSI 40 cu. in. @10,000 PSI	63		
	PED3002	2	Dump			Advance/Retract			71		
	PEM3021	1	VP2	Standard	2 Position 2 Way	Manual Lever Actuated			Advance/Retract	63	
	PEM3022	2	VP2							71	
	PEM3031	1	VP3*							3 Position 3 Way	Remote Solenoid Actuated
	PEM3032	2	VP3*	77							
	PEM3052	2	VPL3*	Standard	Locking	78					
	PES3031	1	VPS3*			70					
	PES3032	2	VPS3*			80					
	PES3052	2	VPSL3*	Locking	81						
Double-Acting	PEM3041	1	VP4	Standard	3 Position 4 Way	Manual Lever Actuated	Advance/Hold/Retract	68			
	PEM3042	2	VP4					77			
	PEM3062	2	VPL4	Locking		Standard		Remote Solenoid Actuated	78		
	PES3041	1	VPS4	70							
	PES3042	2	VPS4	80							
	PES3062	2	VPSL4	Locking					81		

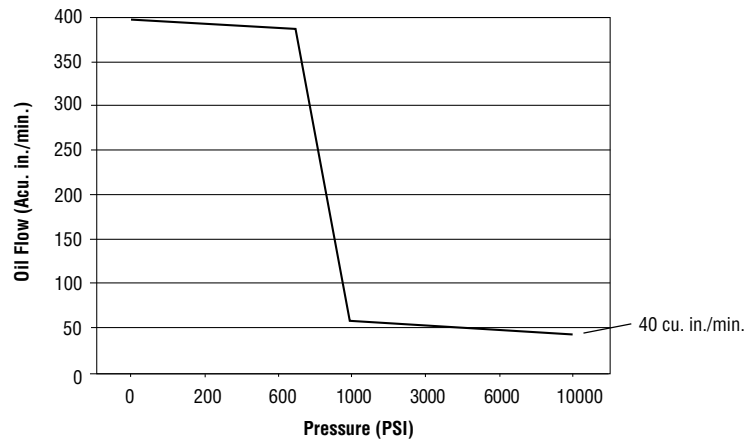
For more information on valve models, see pages 63-67.

* Includes Suc-O-Matic.



The Simplex 30 Series pump is used in this horizontal pressing application. The 30 Series pump, with its smooth operation, is ideal for indoor use. Its compact size is perfect when space is at a premium.

PERFORMANCE CHART



CUSTOM BUILD

Using the chart below you can add roll bars, different size reservoirs or other options.

Description	Model	Selections
Product	P	Power Pump
Motor Control Options	E	E = No Options P = Pendant Switch F = Foot Switch
Valve Style	S	D = Dump S = Solenoid M = Manual (Dump comes with pendant.)
Pump Series	3	1 HP, 115,230 VAC 50/60 Hz, Induction Motor
Options	1	0 = No Options 4 = Filter only 1 = Roll Bars only 5 = Roll Bars & Filter
Valve Type	3	0 = Dump 4 = 4 Way 3 Position 2 = 2 Way 2 Position 5 = 3 Way Locking Style 3 = 3 Way 3 Position 6 = 4 Way Locking Style
Reservoir Size	2	1 = 1 Gallon 5 = 5 Gallon 2 = 2 Gallon
Motor Voltage		Blank = 115 VAC Single Phase A = 230 VAC Single Phase

30 SERIES POWER PUMP OPTIONS

PUMP CONTROL DEVICES



- PPM - Motor Control Pendant
 - PES - Valve Directional Control Pendant
 - PPS - Motor Control & Valve Directional Control Pendant (dual switch)
- All pendants include 20' cord.



- PFM - Motor Control Foot Switch
- Includes 20' cord.

PUMP PROTECTION



- P03 - Roll Bars
- For 1, 2 & 5 gallon reservoirs only. Order (1) under Options in the Custom Build Chart.



- P04 - External filter for pumps with 3 & 4 way valves.
- Order (4) under Options in the Custom Build Chart. Replacement filter elements, use order number P05E.

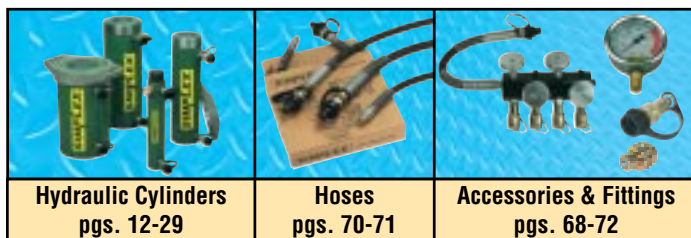
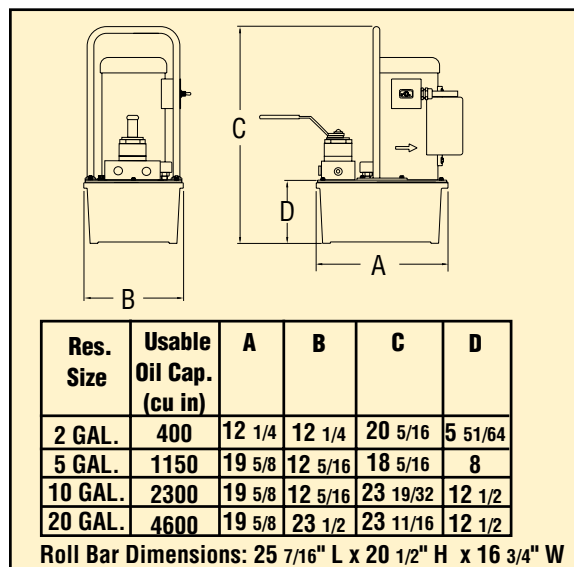
ALL PUMP OPTIONS ARE FACTORY INSTALLED



PEM4032

Quiet running 1725 RPM motors are perfect for in house production jobs. Dual voltage, dual amp induction motors fit a wide variety of applications.

- 14 standard models.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation provides fast advance.
- Higher crossover for faster cylinder cycle.
- Dual voltage 115/230 VAC 50/60 Hz Motor.
- Motor starts under full load.
- Runs reliably on 20 amp circuits.
- Maximum amperage draw 17 amps at 115 VAC.
- Adjustable relief for variable pressure settings.
- Dual ports for easier plumbing.
- Quiet running (80dBA).
- Optional dump pumps come standard with motor pendant switch with 20' cord.



Hydraulic Cylinders
pgs. 12-29

Hoses
pgs. 70-71

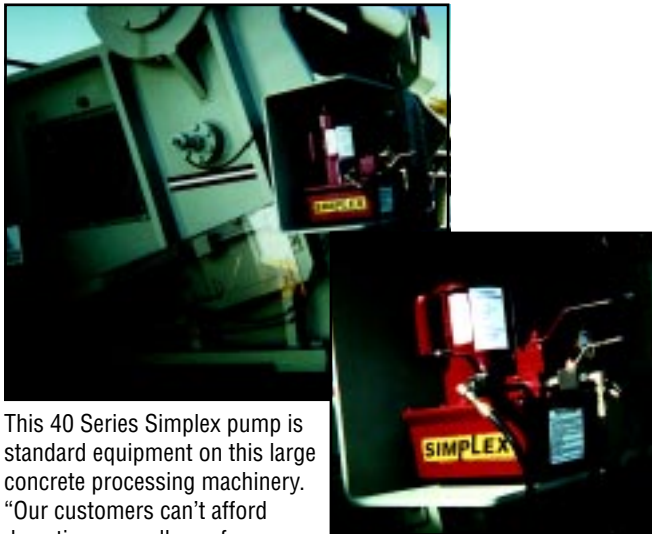
Accessories & Fittings
pgs. 68-72

PE-40 Series 1.5 HP Electric Powered Pumps - 10,000 psi capacity

	Model Number	Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate @ 115 VAC	Weight (lbs.)		
			Model	Style		Function					
Single-Acting	PEM4022	2	VP2	Standard	2 Position 2 Way	Manual Lever Actuated	1.5 HP Single Phase Induction Motor 115/230 VAC 50/60 Hz 17 amps at 10,000 PSI (Factory Wired @ 115 VAC)	400 cu. in. @1200 PSI	66		
	PEM4025	5	VP2							124	
	PEM4032	2	VP3*							71	
	PEM4035	5	VP3*							129	
	PEM4055	5	VPL3*	Locking	3 Position 3 Way	Remote Solenoid Actuated			130		
	PES4032	2	VPS3*	Standard						73	
	PES4035	5	VPS3*							131	
	PES4055	5	VPSL3*						Locking		132
Double-Acting	PEM4042	2	VP4	Standard	3 Position 4 Way	Manual Lever Actuated	Advance/ Hold/ Retract	55 cu. in. @10,000 PSI	71		
	PEM4045	5	VP4							129	
	PEM4065	5	VPL4	Locking							130
	PES4042	2	VPS4	Standard					Remote Solenoid Actuated		73
	PES4045	5	VPS4								131
	PES4065	5	VPSL4							Locking	

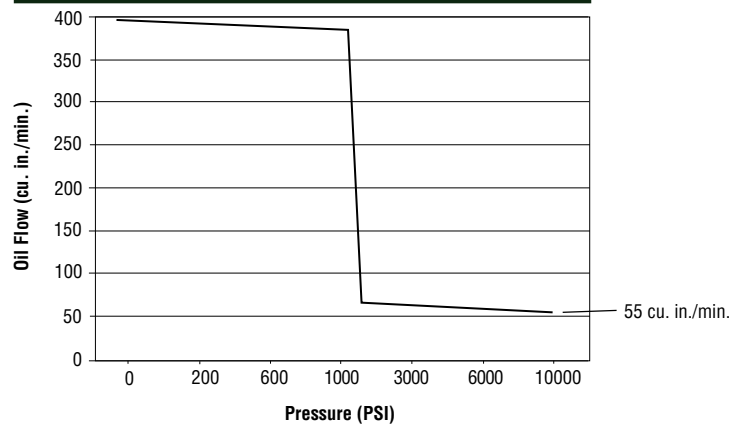
For more information on valve models, see pages 63-67.

* Includes Suc-O-Matic.



This 40 Series Simplex pump is standard equipment on this large concrete processing machinery. "Our customers can't afford downtime regardless of conditions at the job site." The Simplex 40 Series is a cool, quiet running pump that is the perfect choice for larger applications that require maximum dependability.

PERFORMANCE CHART



CUSTOM BUILD

Using the chart below you can add roll bars, different size reservoirs or other options.

Description	Model	Selections
Product	P	Power Pump
Motor		
Control	E	E = No Options P = Pendant Switch F = Foot Switch
Options		
Valve	S	S = Solenoid M = Manual D = Dump
Style		
Pump	4	1.5 HP, 115/230 VAC 50/60 Hz, Induction Motor
Series		
Options	1	0 = No Options 4 = Filter only 1 = Roll Bars only 5 = Roll Bars & Filter 2 = Heat Exchanger & Filter 3 = Roll Bars Plus Heat Exchanger & Filter
Valve		
Type	3	3 = 3 Way 3 Position 6 = 4 Way Locking Style 4 = 4 Way 3 Position 5 = 3 Way Locking Style
Reservoir		
Size	5	2 = 2 Gallon 6 = 10 Gallon 5 = 5 Gallon 7 = 20 Gallon
Motor		
Voltage		Blank = 115 VAC Single Phase A = 230 VAC Single Phase

40 SERIES POWER PUMP OPTIONS

PUMP CONTROL DEVICES



- PPM - Motor Control Pendant
 - PES - Valve Directional Control Pendant
 - PPS - Motor Control & Valve Directional Control Pendant (dual switch)
- All pendants include 20' cord.



- PFM - Motor Control Foot Switch
- Includes 20' cord.

PUMP PROTECTION



- P03 - Roll Bars
- For 1, 2 & 5 gallon reservoirs only. Order (1) under Options in the Custom Build Chart.



- P04 - Heat Exchanger & Filter.
- Order (2) under Option in the Custom Build Chart. Replacement Filter, order number P05E.

ALL PUMP OPTIONS ARE FACTORY INSTALLED



PES7032

PEM7132

- 14 standard models
- Permanent magnet motor.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation provides fast advance.
- Higher crossover for faster cylinder cycle.
- Starts under full load.
- Runs reliably on long extension cords.
- Maximum amperage draw 17 amps.
- Adjustable relief for variable pressure settings.
- Dual ports for easier plumbing.
- Available with optional roll bars.
- Quiet running (80dBA).
- Optional dump pumps come standard with motor pendant switch with 20' cord.

Res. Size	Usable Oil Cap. (cu in)	A	B	C	D
2 GAL.	400	12 1/4	12 1/4	19	5 51/64
5 GAL.	1150	19 5/8	12 5/16	19 7/16	8
10 GAL.	2300	19 5/8	12 5/16	18 7/8	12 1/2
20 GAL.	4600	19 5/8	23 1/2	18 7/8	12 1/2

Roll Bar Dimensions: 25 7/16" L x 20 1/2" H x 16 3/4" W

Hydraulic Cylinders pgs. 12-29	Hoses pgs. 70-71	Accessories & Fittings pgs. 68-72

PE-70 Series 1.5 HP Electric Powered Pumps - 10,000 psi capacity

	Model Number	Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate @ 115 VAC	Weight (lbs.)		
			Model	Style		Function					
Single-Acting	PEM7022	2	VP2	Standard	2 Position 2 Way	Manual Lever Actuated	1.5 HP Single Phase Permanent Magnet 115 VAC 50/60 Hz 17 amps at 10,000 PSI	400 cu. in. @ 1200 PSI	66		
	PEM7025	5	VP2		3 Position 3 Way				Remote Solenoid Actuated	124	
	PEM7032	2	VP3*							Advance/ Hold/ Retract	71
	PEM7035	5	VP3*								129
	PEM7052	2	VPL3*	Standard		130					
	PES7032	2	VPS3*			73					
	PES7035	5	VPS3*			131					
	PES7052	2	VPSL3*		Locking	132					
Double-Acting	PEM7042	2	VP4	Standard	3 Position 4 Way	Manual Lever Actuated	Advance/ Hold/ Retract	50 cu. in. @10,000 PSI	71		
	PEM7045	5	VP4	Standard					Remote Solenoid Actuated	129	
	PEM7062	2	VPL4							Locking	130
	PES7042	2	VPS4							73	
	PES7045	5	VPS4							Standard	131
	PES7062	2	VPSL4	Locking					132		

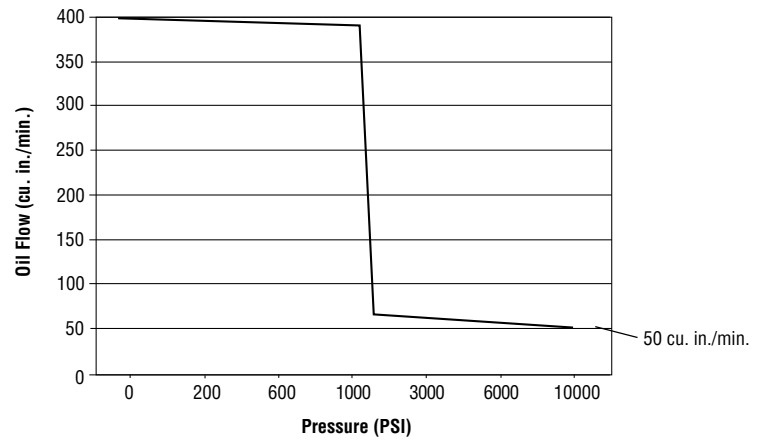
For more information on valve models, see pages 63-67.

* Includes Suc-O-Matic.



Simplex 70 Series pump & 50 ton flat jack cylinders makes easy work of bridge lifting. "We had to make complete bearing change outs on 90 bridges along Interstate 80. The Simplex 70 Series pump with its permanent magnet motor just kept running even with long extension cord and portable generator power."

PERFORMANCE CHART



CUSTOM BUILD

Using the chart below you can add roll bars, different size reservoirs or other options.

Description	Model	Selections
Product	P	Power Pump
Motor Control Options	E	E = No Options P = Pendant Switch F = Foot Switch
Valve Style	S	S = Solenoid M = Manual D = Dump
Pump Series	7	1.5 115 VAC 50/60 Hz, Permanent Magnet Motor
Options	0	0 = No Options 4 = Filter only 1 = Roll Bars only 5 = Roll Bars & Filter 2 = Heat Exchanger & Filter 6 = Pressure Switch 3 = Roll Bars Plus Heat Exchanger & Filter 7 = Pressure Switch Plus Heat Exchanger & Filter
Valve Type	3	3 = 3 Way 3 Position 6 = 4 Way Locking Style 4 = 4 Way 3 Position 5 = 3 Way Locking Style
Reservoir Size	5	2 = 2 Gallon 6 = 10 Gallon 5 = 5 Gallon 7 = 20 Gallon
Motor Voltage		Blank = 115 VAC Single Phase A = 230 VAC Single Phase

70 SERIES POWER PUMP OPTIONS

PUMP CONTROL DEVICES



- PPM - Motor Control Pendant
 - PES - Valve Directional Control Pendant
 - PPS - Motor Control & Valve Directional Control Pendant (dual switch)
- All pendants include 20' cord.



- PFM - Motor Control Foot Switch
- Includes 20' cord.

PUMP PROTECTION



- P03 - Roll Bars
- For 1, 2 & 5 gallon reservoirs only. Order (1) under Options in the Custom Build Chart.



- P04 - Heat Exchanger & Filter.
- Order (2) under Option in the Custom Build Chart. Replacement Filter, order number P05E.

PUMP PRESSURE CONTROL



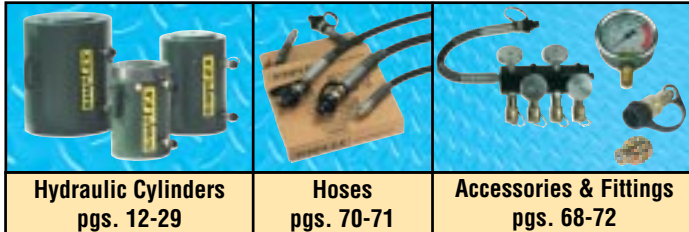
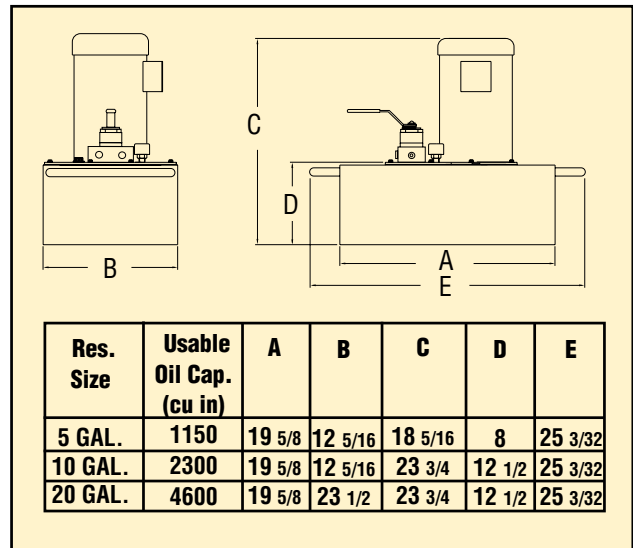
- Pressure Switch
- Order (6) under Options in the Custom Build Chart.

ALL PUMP OPTIONS ARE FACTORY INSTALLED



PEM5046

- 12 standard models.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation for fast advance.
- Higher crossover for faster cylinder cycle.
- 3 HP / 3 phase dual voltage motors (230/460).
- Adjustable relief for variable pressure settings.
- Dual ports for easier plumbing.
- Quiet running (80dBA).



PE-50 Series 3 HP Electric Powered Pumps - 10,000 psi capacity

		Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate	Weight (lbs.)				
	Model Number		Model	Style		Function							
Single-Acting	PEM5035	5	VE3*	Standard	3 Position 3 Way	Manual Lever Actuated	3 HP Three Phase 230/460 volts 10 amps @ 230 volt	650 cu. in. @1,500 PSI	162				
	PEM5036	10	VE3*			Remote Solenoid Actuated			217				
	PEM5056	10	VPL3*	Locking					218				
	PES5035	5	VPS3*	Standard					220				
	PES5036	10	VPS3*										
	PES5056	10	VPSL3*	Locking					221				
Double-Acting	PEM5045	5	VP4	Standard	3 Position 4 Way	Manual Lever Actuated		110 cu. in. @10,000 PSI				162	
	PEM5046	10	VP4			Remote Solenoid Actuated			217				
	PEM5066	10	VRL4	Locking					218				
	PES5045	5	VRS4	Standard					220				
	PES5046	10	VRS4										
	PES5066	10	VRSL4	Locking					221				

For more information on valve models, see pages 63-67.

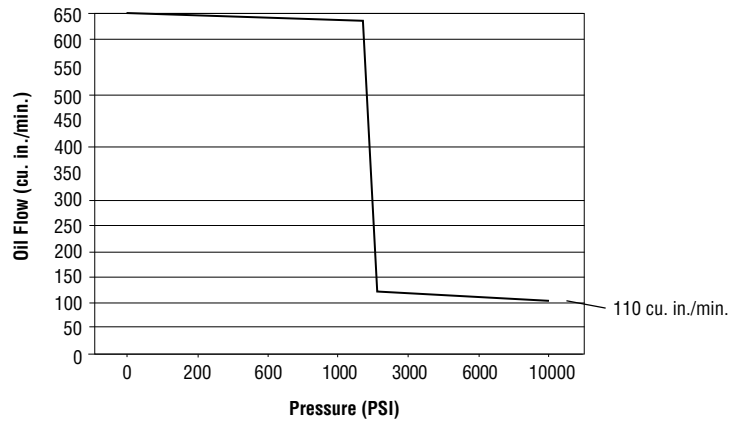
* Includes Suc-O-Matic



Simplex 50 Series pump & high tonnage press are used for many different pressing jobs. "The Simplex pump has been running trouble free for over six years. This is some of the most reliable equipment we have in our shop."

3 HP 3 phase motor comes complete with thermal overload protection, motor starter and heater elements as standard equipment.

PERFORMANCE CHART



CUSTOM BUILD

Using the chart below you can add different size reservoirs or other options.

Description	Model	Selections
Product	P	Power Pump
Motor Control Options	E	E = No Options P = Pendant Switch F = Foot Switch
Valve Style	S	S = Solenoid M = Manual
Pump Series	5	3 HP, 230/460 VAC 3 Phase Motor
Options	2	0 = No Options 2 = Heat Exchanger & Filter 4 = Filter only
Valve Type	3	3 = 3 Way 3 Position 5 = 3 Way Locking Style 4 = 4 Way 3 Position 6 = 4 Way Locking Style
Reservoir Size	5	5 = 5 Gallon 7 = 20 Gallon 6 = 10 Gallon
Motor Voltage*		Blank = 230 VAC Three Phase A = 460 VAC Three Phase

*460 VAC pump ordered with heat exchanger requires a separate 115 VAC power source for the heat exchanger.

50 SERIES POWER PUMP OPTIONS

PUMP CONTROL DEVICES



- PPM - Motor Control Pendant
 - PES - Valve Directional Control Pendant
 - PPS - Motor Control & Valve Directional Control Pendant (dual switch)
- All pendants include 20' cord.



- PFM - Motor Control Foot Switch
- Includes 20' cord.

Pendant & foot switch options include starter box.

PUMP PROTECTION



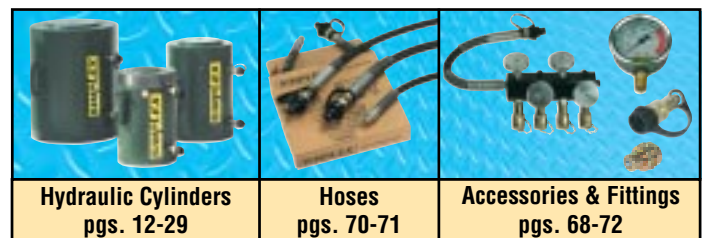
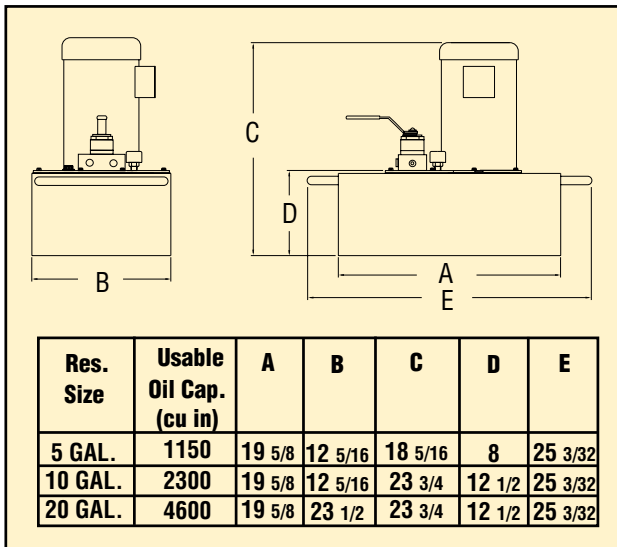
- P04 - Heat Exchanger & Filter.
- Order (2) under Option in the Custom Build Chart. Replacement Filter order, number P05E.

ALL PUMP OPTIONS ARE FACTORY INSTALLED

- 8 standard models.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation fast advance.
- Higher crossover means faster cylinder cycle.
- 5 HP / 3 Phase dual voltage motors (230/460).
- Dual ports for easier plumbing.
- 2,000 PSI crossover.
- Quiet running (80dBA).
- Adjustable relief for variable pressure settings.



PEM6046



PE-60 Series 5 HP Electric Powered Pumps - 10,000 psi capacity

	Model Number	Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate	Weight (lbs.)
			Model	Style		Function			
Sing.-Act	PEM6035	5	VP3*	Standard	3 Position 3 Way	Manual Lever	5 HP Three Phase 230/460 volts 13 amps @ 230 volt	650 cu. in. @2,000 PSI	162
	PEM6036	10	VP3*			Remote Solenoid			217
	PES6035	5	VPS3*		3 Position 4 Way	Manual Lever		175 cu. in. @10,000 PSI	165
	PES6036	10	VPS3*			Remote Solenoid			220
Doub.-Act	PEM6045	5	VP4	Standard	3 Position 3 Way	Manual Lever		650 cu. in. @2,000 PSI	162
	PEM6046	10	VP4			Remote Solenoid			217
	PES6045	5	VPS4		3 Position 4 Way	Manual Lever		175 cu. in. @10,000 PSI	165
	PES6046	10	VPS4			Remote Solenoid			220

For more information on valve models, see pages 63-67.

* Includes Suc-O-Matic.

ELECTRIC 5 HP 60 SERIES

POWER PUMPS

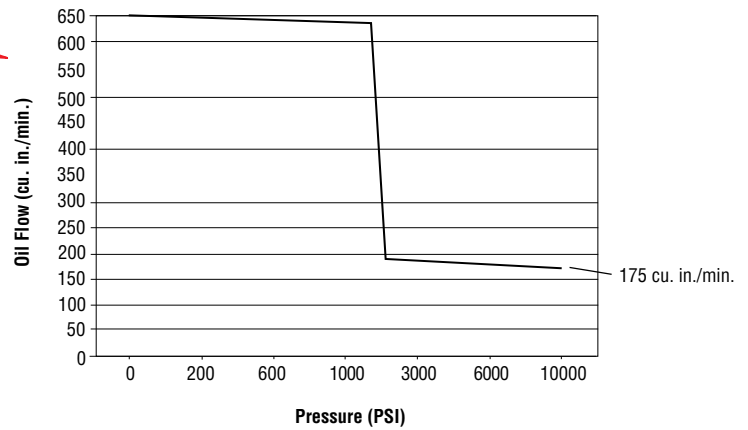


Simplex supplies custom cylinders with up to 1,500 ton capacities.

When one of the world's largest drag lines needed to be raised for roller replacement, the maintenance crew relied on the high tonnage expertise of Simplex. Weighing over 5,000 tons, this was no job for amateurs. "We used RDA50012 and PE60 Series pumps; Simplex provided all the hoses & valving, and the operation went flawlessly."

5 HP 3 phase motor comes complete with thermal overload protection, motor starter and heater elements as standard equipment.

PERFORMANCE CHART



CUSTOM BUILD

Using the chart below you can add different size reservoirs or other options.

Description	Model	Selections
Product	P	Power Pump
Motor	E	E = No Options P = Pendant Switch
Control Options	F	F = Foot Switch
Valve Style	S	S = Solenoid M = Manual
Pump Series	6	5 HP, 230/460 VAC 3 Phase Motor
Options	2	0 = No Options 2 = Heat Exchanger & Filter 4 = Filter only
Valve Type	3	3 = 3 Way 3 Position 5 = 3 Way Locking Style 4 = 4 Way 3 Position 6 = 4 Way Locking Style
Reservoir Size	5	5 = 5 Gallon 7 = 20 Gallon 6 = 10 Gallon
Motor Voltage*		Blank = 230 VAC Three Phase A = 460 VAC Three Phase

*460 VAC pump ordered with heat exchanger requires a separate 115 VAC power source for the heat exchanger.

60 SERIES POWER PUMP OPTIONS

PUMP CONTROL DEVICES



- PPM - Motor Control Pendant
 - PES - Valve Directional Control Pendant
 - PPS - Motor Control & Valve Directional Control Pendant (dual switch)
- All pendants include 20' cord.



- PFM - Motor Control Foot Switch
- Includes 20' cord.

Pendant & foot switch options include starter box.

PUMP PROTECTION



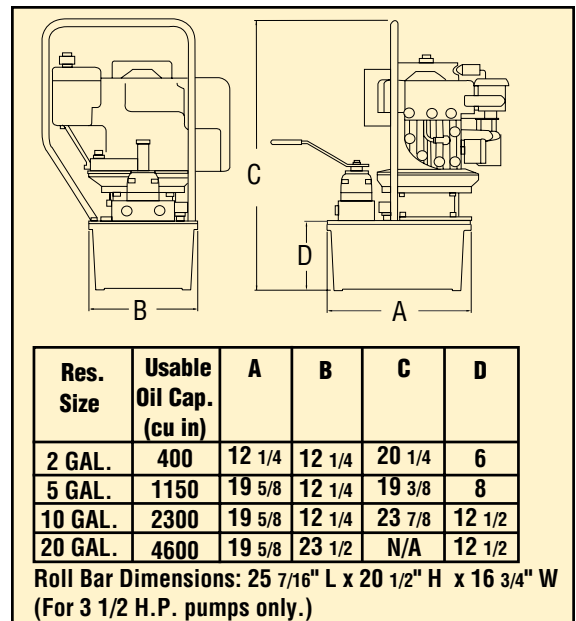
- P04 - Heat Exchanger & Filter.
- Order (2) under Option in the Custom Build Chart. Replacement Filter, order number PO5E.

ALL PUMP OPTIONS ARE FACTORY INSTALLED



PGM4042

- 6 standard models.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation provides fast advance.
- Higher crossover for faster cylinder cycle.
- 3 1/2 & 8 HP gas engine.
- Adjustable relief for variable pressure settings.
- Dual ports for easier plumbing.



PG-40 Series 3.5 HP & PG-50 Series 8 HP Gasoline Powered Pumps - 10,000 psi capacity

Model Number	Reservoir Size (Gal.)	Valve				Motor Specifications	Flow Rate	Weight (lbs.)
		Model	Style		Function			
PGM4032	2	VP3	Standard	3 Position	Manual Lever	Gas Engine 3 1/2 HP	400 cu. in. @ 600 psi 50 cu. in. @10,000 psi	53
PGM4035	5	VP3		3 Way				108
PGM4042	2	VP4		3 Position				53
PGM4045	5	VP4		4 Way				108
PGM5036	10	VP3		3P/3W	Manual Lever	Gas Engine 8 HP	680 cu. in. @1500 psi 120 cu. in. @10,000 psi	147
PGM5046		VP4		3P/4W				

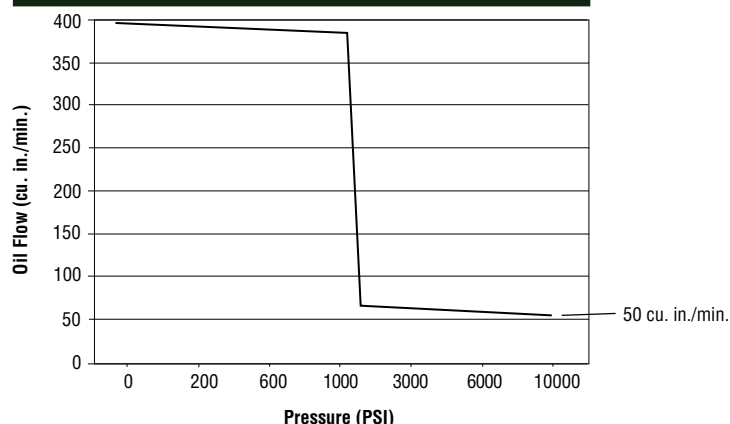
For more information on valve models, see pages 63-67.
Contact Factory for 8 HP Dimensions.

GAS POWERED HYDRAULIC PUMP **POWER PUMPS**



At remote job sites where air or electric power is not available, Simplex gasoline power pumps are the perfect choice. "We don't always have portable generators on these (overpass maintenance) jobs. Simplex gas pumps always come through."

PERFORMANCE CHART



CUSTOM BUILD

Using the chart below you can add roll bars, different size reservoirs or other options.

Description	Model	Selections
Product	P	Power Pump
Motor Controls	G	G = Gasoline Motor
Valve Style	M	M = Manual D = Dump
Pump Series	4	4 = 3 1/2 HP 5 = 8 HP
Options	1	0 = No Options 4 = Filter only 1 = Roll Bars only** 5 = Roll Bars & Filter**
Valve Type	3	2 = 2 Way 2 Position 5 = 3 Way Locking Style* 3 = 3 Way 3 Position* 6 = 4 Way Locking Style 4 = 4 Way 3 Position
Reservoir Size	5	2 = 2 Gallon 6 = 10 Gallon 5 = 5 Gallon 7 = 20 Gallon

* With Suc-O-Matic™

** Roll Bars with 3 1/2 HP only.

40 & 50 SERIES GAS POWER PUMP OPTIONS

PUMP PROTECTION



■ P03 - Roll Bars
For 1, 2 & 5 gallon reservoirs only. Order (1) under Options in the Custom Build Chart.

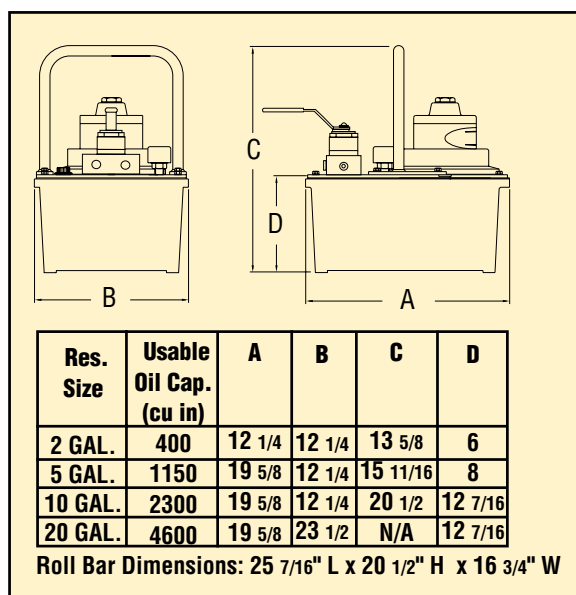


■ P04 - External filter for pumps with 3 & 4 way valves. Order (4) under Options in the Custom Build Chart. Replacement filter elements, use order number P05E.

ALL PUMP OPTIONS ARE FACTORY INSTALLED



PAM4535



- 6 standard models.
- Suc-O-Matic feature reduces retraction time.
- Two-speed operation provides fast advance.
- Higher crossover for faster cylinder cycle.
- Rotary air @ 50 cfm.
- Adjustable relief for variable pressure settings.
- Dual ports for easier plumbing.
- Available with remote air pendant control.
- Higher crossover for faster cycles.
- Large muffler for quieter operation.

PA-40 Series 1.5 HP Air Powered Pumps - 10,000 psi capacity

	Model Number	Reservoir Size (Gal.)	Valve			Motor Specifications	Flow Rate	Weight (lbs.)		
			Model	Style					Function	
S/A	PAM4032	2	VP3*	Standard	3 Position	Manual Lever Actuated	Rotary Air 50 cfm 90 PSI	400 cu. in. @ 600 PSI 50 cu. in. @10,000 PSI	50	
	PAM4035	5	VP3*		3 Way				108	
D/A	PAM4042	2	VP4		3 Position 4 Way	Solenoid Actuated			Advance/ Hold/ Retract	50
	PAM4045	5	VP4							108
	PAS4042	2	VPA4			110				
	PAS4045	5	VPA4							

For more information on valve models, see pages 63-67.

* Includes Suc-O-Matic.

For quieter operation where compressed air is available, or for use in explosive environments. Delivers high speed operation for a variety of medium sized cylinders, hydraulic tools or systems.

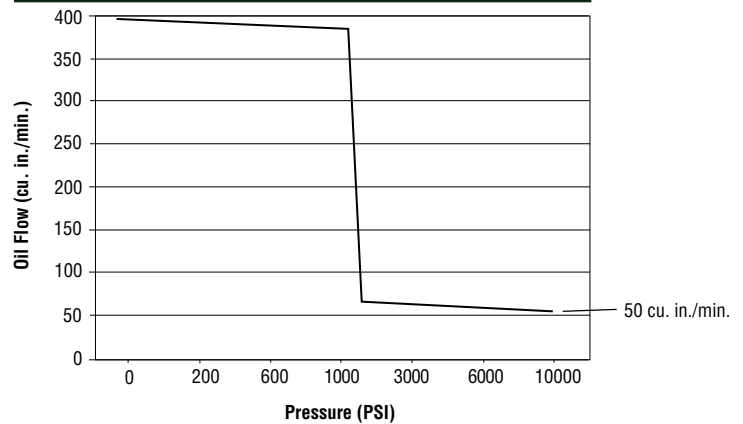


A233

Air Filter-Lubricator

Provides lubricated and filtered air, and contributes to long and trouble free product life. Recommended for use with all air pumps.

PERFORMANCE CHART



CUSTOM BUILD

Using the chart below you can add roll bars, different size reservoirs or other options.

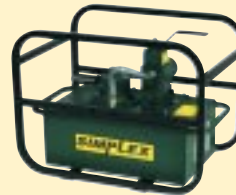
Description	Model	Selections
Product	P	Power Pump
Motor Controls	A	A = Rotary Air Motor
Valve Style	M	M = Manual S = Solenoid** D = Dump
Pump Series	4	Rotary Air @ 50 cfm
Options	1	0 = No Options 4 = Filter only 1 = Roll Bars only 5 = Roll Bars & Filter
Valve Type	3	2 = 2 Way 2 Position 5 = 3 Way Locking Style* 3 = 3 Way 3 Position* 6 = 4 Way Locking Style 4 = 4 Way 3 Position
Reservoir Size	5	2 = 2 Gallon 6 = 10 Gallon 5 = 5 Gallon 7 = 20 Gallon

* With Suc-O-Matic™

** Dump & 4 way valve only

40 SERIES AIR POWER PUMP OPTIONS

PUMP PROTECTION



■ P03 - Roll Bars
For 1, 2 & 5 gallon reservoirs only. Order (1) under Options in the Custom Build Chart.



■ P04 - External filter for pumps with 3 & 4 way valves. Order (4) under Options in the Custom Build Chart. Replacement filter elements, use order number P05E.

ALL PUMP OPTIONS ARE FACTORY INSTALLED

The Simplex PA91 & PA95 Are The Toughest, Most Reliable Air Hydraulic Pump In The Field.



*Quick disconnect couplers not included.

Easy Operation with Hand or Foot Control

					
Hydraulic Cylinders pgs. 12-29	Presses Pgs. 93-100	Hydraulic Spreaders Pg. 83	Hoses pgs. 70-71	A233 Filter Lubricator	Accessories & Fittings pgs. 68-72

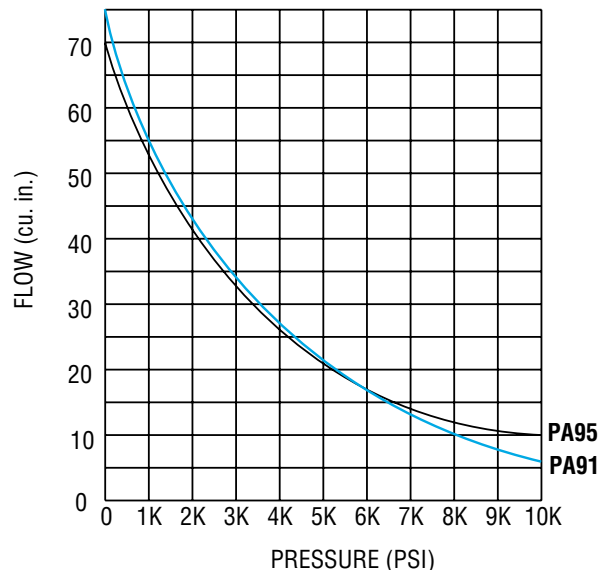
- PA91 is ideal for most applications and provides exceptional value.
- PA95 provides high performance in a compact, easy to use package
- Powers a wide variety of single-acting tools.
- Rugged all metal construction.
- High performance/fast operation.
- Pressure relief valve protects hydraulic circuit.
- Reduced noise for in house production.
- Reduced operator fatigue.
- 3 position treadle for advance, hold and retract.
- Uses standard shop air.

PA91 & PA95 Air Over Oil Pump

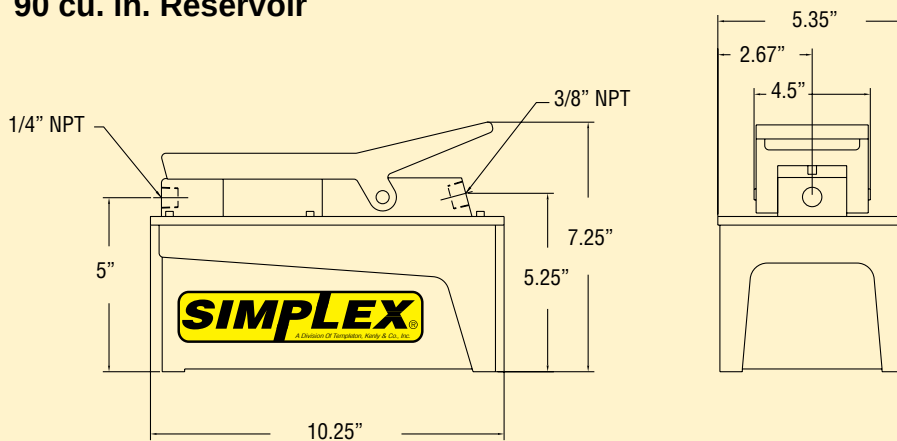
Model Number	Usable Oil Capacity (cu. in.)	Oil Flow @ 0 PSI (cu. in.)	Oil Flow @ 10,000 PSI (cu. in.)	Operating Air Pressure Range (psi)	Weight (lbs.)
PA91	90	75	6	60 - 150	20
PA91-1	230				28
PA95	90	70	10		20
PA95-1	230				28

PERFORMANCE CHART

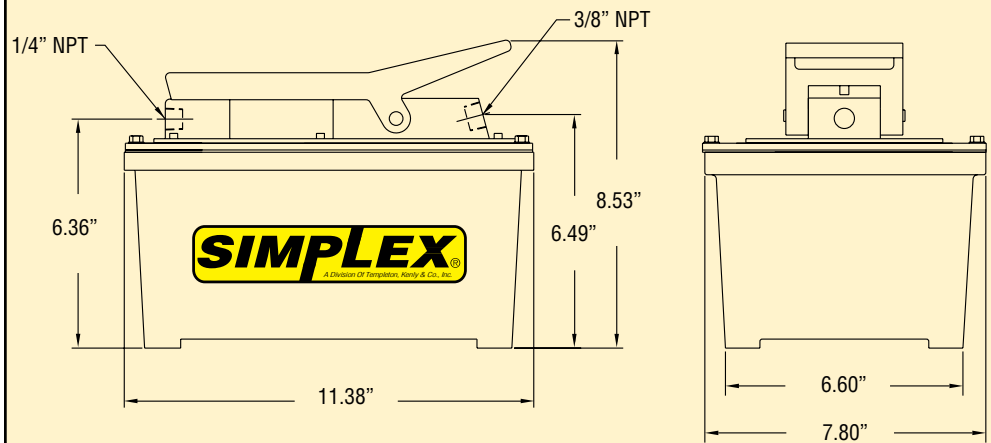
Flow @100 psi Air



PA91 & PA95 90 cu. in. Reservoir



PA91-1 & PA95-1 230 cu. in. Reservoir



When reliable 10,000 psi power was needed to run this production line fixture, industrial engineers chose the Simplex PA91. "The three position treadle is easy to use and the pump runs on standard shop air."