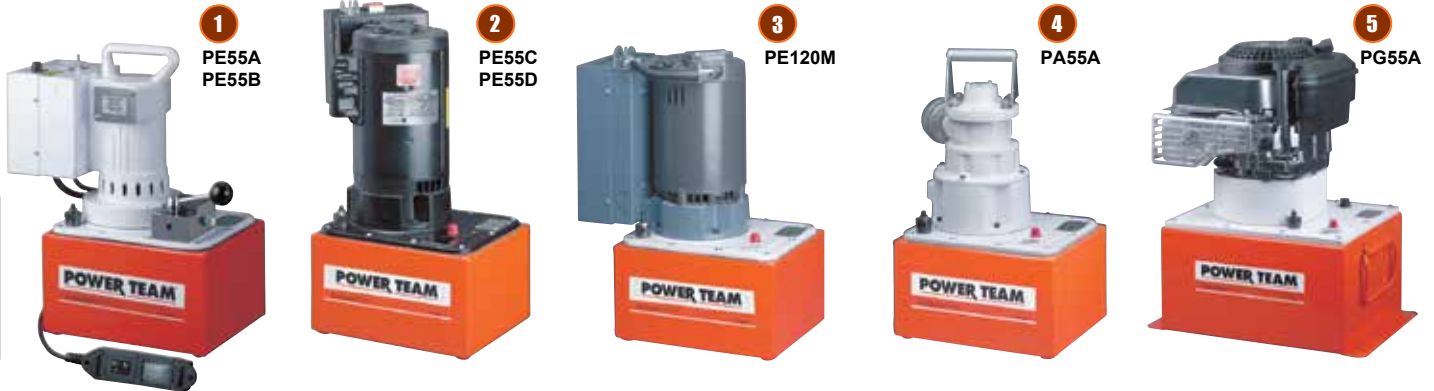


**CHOOSE YOUR BASIC PUMP, SELECT YOUR ACCESSORIES, AND WE WILL ASSEMBLE, TEST AND SHIP YOUR PUMP.**



**ORDER A “CUSTOM BUILT” HYDRAULIC PUMP**

“Assemble to Order” means you can choose a basic pump with gas, air or electric motor. Then select the proper valve, gauge, pressure control, motor control and reservoir. You get a two-stage pump that gives high oil volume for fast cylinder approach (and return with double-acting cylinders) in the first stage and high pressure in the second stage.

**1 1-1/8 HP UNIVERSAL MOTOR**

These motors start under full load and are suitable for operation up to 5,000 or 10,000 psi. The motor is 1-1/8 hp, 12,000 rpm, 115 or 230VAC (specify), 50/60 cycle AC single-phase (25 amp draw at 115VAC). With proper valve they can be used with single or double-acting cylinders.

**NOTE:** Remote control available.

**2 1-1/2 HP JET MOTOR, SINGLE & THREE-PHASE**

Feature low noise level, moderate speed for long service and are ideal for fixed applications. Motor is 1-1/2 hp, 3,450 rpm, 115 or 230VAC, 50 or 60 cycle (specify), AC single-phase with thermal overload switch. Can be used with single or double-acting cylinders and equipped with remote control.

**NOTE:** These do not start under full load unless valve is in “neutral” (requires open or tandem center valve) and are not recommended for frequent starting and stopping.

**3 3 HP JET MOTOR, THREE-PHASE**

Gives low noise level and long life due to its moderate operating speed. Ideal for fixed installations. Consists of basic 10,000 psi pump, jet pump motor: 3 hp, 3,450 rpm, 230/460VAC, 60 or 50 cycle (specify). AC three-phase, with thermal overload switch. Equipped with internal and external relief valve. Will start under load.

**4 3 HP AIR MOTOR**

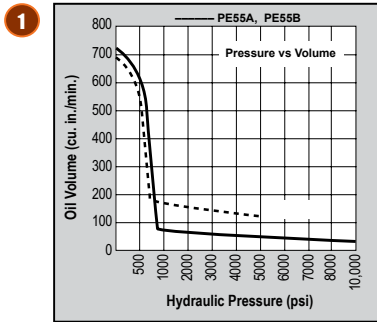
This pump is ideal for use where electricity is unavailable or cannot be used. The 5,000 or 10,000 psi pump has a 3 hp air-driven motor at 3,000 rpm (optimum performance based on 80 psi air pressure and 50 cfm at the pump). You can drive single or double-acting cylinders with the correct valve.

**NOTE:** 80 psi air supply required to start under full load.

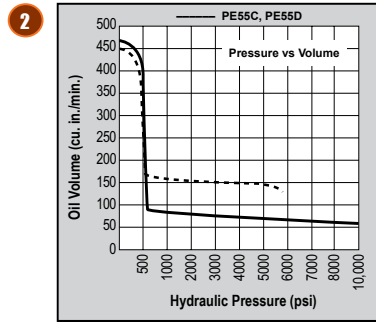
**5 GASOLINE ENGINE**

This version is perfect when electricity and air are unavailable. It is capable of continuous operation at full pressure. Consists of basic 10,000 psi pump, 4-cycle Briggs & Stratton “Diamond Edge” gasoline engine, developing 6 hp. As with all these pumps, this unit can be valved for use with either single or double-acting cylinders.

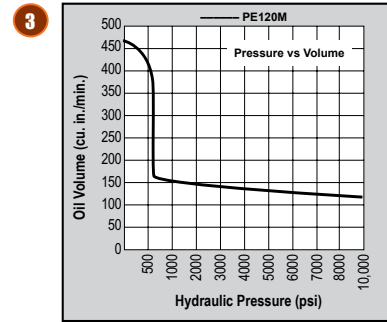
Performance Specifications



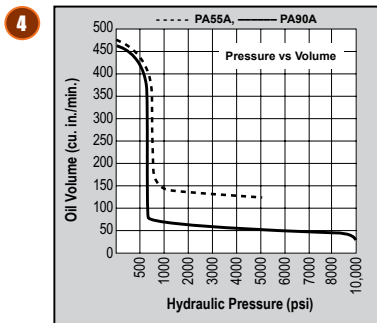
dBA @ Idle and 10,000 psi - 90/95  
dBA @ Idle and 5,000 psi - 90/95



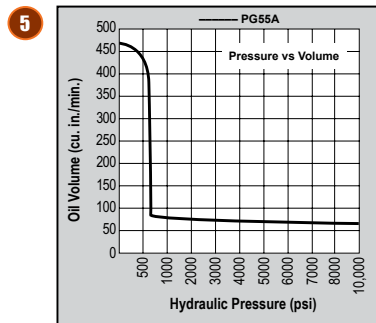
dBA @ Idle and 10,000 psi - 80/85



dBA @ Idle and 10,000 psi - 80/85



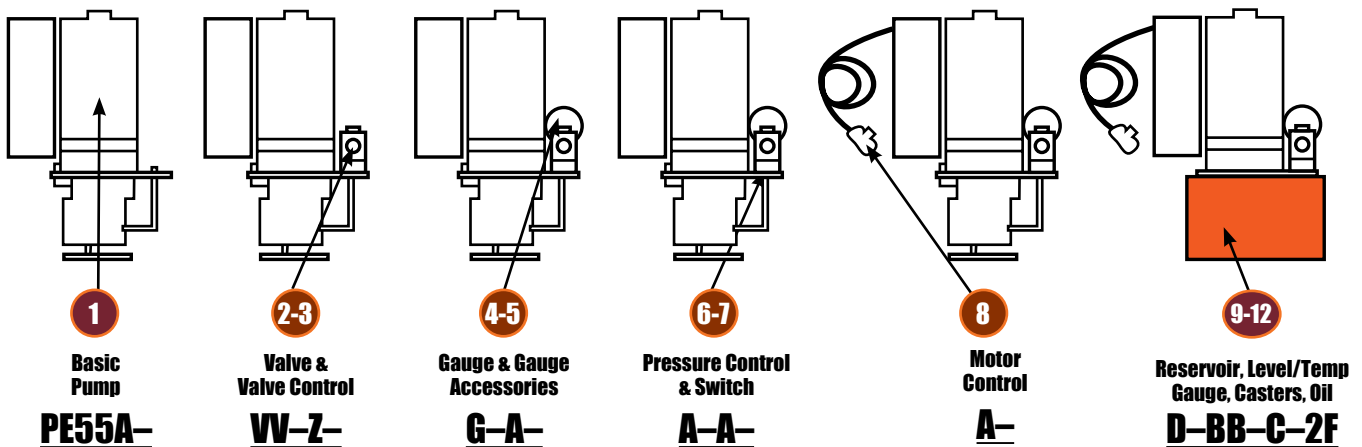
dBA @ Idle and 10,000 psi - 83/88  
dBA @ Idle and 5,000 psi - 83/88



“ASSEMBLE TO ORDER” PUMP  
HOW TO ORDER YOUR “CUSTOM” HYDRAULIC PUMP...

You can choose from pre-engineered, off-the-shelf components to customize your pump. All the components are listed in table form, with key letters or numbers on pages 109-110. Complete instructions guide you so

you can determine what is needed to complete a pump assembly. Shown below is an example of a custom-built pump.



Pump No. PE55A-VV-Z-G-A-A-A-A-D-BB-C-2F is a 10,000 psi two-speed pump with a 115VAC, 50-60Hz, single-phase, 1-1/8 hp, 12,000 rpm motor; a 9512 4-way solenoid valve with a 202778 remote hand control, a 9041

pressure gauge, no gauge accessories, standard pressure control, standard On/Off/Pulse motor control, 40063OR9 2-gallon reservoir, a 350431 oil level/temperature gauge, 10494 casters, and 2 gallons of standard hydraulic oil.

See next two pages for pump components

**TO BUILD YOUR PUMP, FILL IN KEY LETTERS FROM CHARTS**

<b>1</b> Basic Pump	<b>2</b> Select Valve	<b>3</b> Select Valve Control	<b>4</b> Select Gauge	<b>5</b> Select Gauge Accessory	<b>6</b> Pressure Control
<b>7</b> Pressure Switch	<b>8</b> Motor Control	<b>9</b> Reservoir	<b>10</b> Oil Level / Temp. Gauge	<b>11</b> Choose Casters	<b>12</b> Select Oil

Use the charts numbered from 1-12 below to select the pump, valve, gauge and other accessories to suit your needs. For the pump, fill in the basic number plus key letter in block 1 above and the key letter only in the blocks 2-12 above for any of the other items. Refer to the appropriate pages in this catalog for more specific information on the products you need.

Pumps

**1 BASIC PUMP**

BASIC PUMP NUMBERS					SPECIFICATIONS			
PE55	PE120	PA55	PA90	PG55	NOTE: Customer must specify voltage required.			
(10,000 psi)	(10,000 psi)	(10,000 psi)	(5,000 psi)	(10,000 psi)	Power Source		rpm	hp
A					115VAC-60 Hz, 1Ø		12,000	1.125
					110VAC-50 Hz, 1Ø		12,000	1.125
B					230VAC-60 Hz, 1Ø		12,000	1.125
					220VAC-50 Hz, 1Ø		12,000	1.125
C **					115VAC-60 Hz, 1Ø		3,450	1.5
C50 **					110VAC-50 Hz, 1Ø		2,850	1.5
D **					230VAC-60 Hz, 1Ø		3,450	1.5
D50 **					220VAC-50 Hz, 1Ø		2,850	1.5
	M60 *				208, 230/460VAC-60 Hz, 3Ø		3,450	3
	M50 *				220/380VAC-50 Hz, 3Ø		2,850	3
		A	A		Air Motor		3,000	3
				A	Gas Engine		3,600	6

\* Voltage Specification Required.

\*\* These pumps do not start under full load unless valve is in "neutral" position (requires open or tandem center valve) and are not recommended for frequent starting and stopping.

**2 VALVE**

Manifold / Manual / Air-Operated Directional Valves	Function
AB 9628 manual, tandem center	4-way, 3-pos. valve
AC 9632 manual "twin" tandem and open center	4-way, 3-pos. valve
A None	—
B 9626 manifold	Manifold 3-way, 2-pos. valve
C 9584 manual	
D 9582 manual	
E 9610 automatic, pilot-operated	
G 9504 manual	3/4-way, 2-pos. valves
JJ 9594 air-operated	3-way, 3-pos. valve
L 9502 manual, closed center "non-interflow"	3-way, 3-pos. valve
M 9520 manual, tandem center Posi-Check®	3-way, 3-pos. valve

Manifold / Manual / Air-Operated Directional Valves	Function
O 9609 manual, pressure compensated flow control	3-way, 4-pos.
R 9506 manual, tandem center Posi-Check®	4-way, 3-pos. valves
RR 9511 manual, open center	
S 9500 manual, tandem center	
T 9507 manual, closed center Posi-Check®	
U 9501 manual, closed center	4-way, 3-pos. valves
Solenoid-Operated Directional Valves	
FF 9569 solenoid-operated - 24VAC	3-way, 2-pos.
HH 9572 solenoid-operated - 24VAC	3/4-way, 2-pos.
PP 9599 solenoid-operated - 24VAC	3-way, 3-pos.
VV 9512 solenoid-operated - 24VAC	4-way, 3-pos. valves
WW 9615 solenoid-operated - 24VAC	

**3 VALVE CONTROL**

Valve Remote Control	Use with Valve
A None	—
X 304718 remote hand control, 10 ft.	9572
XF 309652 remote foot control, 10 ft.	9572
Y 202777 remote hand control, 10 ft.	9569 or 9599

Valve Remote Control	Use with Valve
Z 202778 remote hand control, 10 ft.	9512 or 9615
ZF 309653 remote foot control, 10 ft.	9512, 9615, 9569 or 9599
ZZ 209593 remote hand control, 12 ft.	9594

**4 GAUGE**

Pressure Gauge	
A	None
B	Other – Specify
G	9041 0-10,000 psi – 0-689 Bar (2.5" diameter)
H	9040 0-10,000 psi – 0-689 Bar (Liquid) (2.5" diameter)
J	9051 0-10,000 psi – 0-689 Bar (4" diameter)
M	9052 0-10,000 psi – 0-689 Bar (Liquid) (4" diameter)

**5 GAUGE ACCESSORY**

Gauge Accessories	
A	None
N	9049 pulsation dampener – All dry gauges

**6 PRESSURE CONTROL**

Pressure Controls	
A	With standard external pressure regulator
C	Other – specify
D	350199 premium external pressure regulator. See Power Team Catalog product No. 9633 for details.

**NOTE:** Pressure controls are factory pre-set at 10,000 psi unless otherwise specified.

**7 PRESSURE SWITCH**

Pressure Switch	
A	None
B	9625 electric pressure switch (500-10,000 psi) <b>NOTE:</b> Pressure switch is factory pre-set at 10,000 psi unless otherwise specified.
C	9641 pilot-operated air control valve – Normally closed
D	9643 pilot-operated air control valve – Normally opened

**8 MOTOR CONTROL**

Electric Motor Controls	
A	Standard On/Off/Pulse control (does not include remote switch) for A, B, C, D, F and M electric pumps. Also used for remote controlled solenoid valves.
B	None
C	25017 remote motor hand switch, 10 ft.
D	203225 remote motor hand switch, 10 ft. (heavy-duty)
E	10461 remote motor foot switch, 10 ft.
Air Motor Controls	
AA	Other – specify
B	None
P	27876 hand motor control (for PA55 & PA90 series)
Q	27877 foot motor control (for PA55 & PA90 series)

**9 RESERVOIR**

Reservoir		Capacity
A	None	–
B	Other – Specify	–
D	40063OR9 – PE55, PE120, PA55 and PA90 series	2.5 gal.
E	61165† – PE55, PE120, PA55 and PA90 series (Oil temperatures in excess of 150° F. may cause permanent failure of the thermoplastic reservoir)	2 gal.
F	RP22‡ – PE55, PE120, PA55 and PA90 series	2.5 gal.
H	61799OR9. Same as D except with drain port	2.5 gal.
J	RP50 – PE55, PE120, PA55 and PA90 series	5 gal.
K	40137OR9 – PG55 series	5 gal.
P	209124 – PE55, PE120, PA55 and PA90 series	7 gal.
V	RP100 – PE55, PE120, PA55 and PA90 series	10 gal.
W	RP101 – PG55 series	10 gal.

**NOTE:** Includes cover adapter and misc. accessories when applicable.

† High density polyethylene.

‡ Aluminum.

**10 OIL LEVEL / TEMP. GAUGE**

Oil Level / Temperature Gauge	
A	None
BB	350431 oil level/temperature gauge

**11 CASTERS**

Casters	
A	None
BB	10494 caster for use with 40063OR9 reservoir (Specify quantity of four)

**12 OIL**

Hydraulic Oil		Capacity
E	Ship pump without oil	–
F	9637 Standard hydraulic oil	1 gal.
G	9638 Standard hydraulic oil	2.5 gal.
Q	9639 Flame-Out® hydraulic oil	1 gal.
R	9640 Flame-Out® hydraulic oil	2.5 gal.
U	9645 Biodegradable hydraulic oil	1 gal.
V	9646 Biodegradable hydraulic oil	2.5 gal.

**NOTE:** Select type of hydraulic oil and specify quantity.