ASSEMBLE TO ORDER PUMPS

Custom Built Hydraulic Pump

10.000 psi

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







ΡΔ55Δ POWER TEAM

POWER TEAM

PE55A

PE55B

PE90A





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.

11/8 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 11/2 hp, 12,000 rpm, 115 or 230 volt (specify), 50/60 cycle AC single phase (25 amp draw at 115V). With proper valve they can be used with single or double-acting cylinders. Remote control available.

1½ HP JET MOTOR, SINGLE & THREE-PHASE

2 Feature low noise level, moderate speed for long service and are ideal for fixed applications. Motor is 11/2 hp, 3,450 rpm, 115 or 230 volt, 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. Also available in 230/460 volt, three-phase (specify).

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 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, 230/460 volt, 60 or 50 cycle (specify). AC three-phase, with thermal overload switch. Equipped with internal and external relief valve. Will start under load.

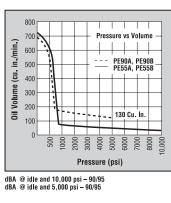
3 HP AIR MOTOR

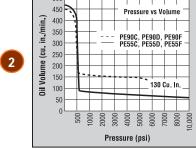
This pump is ideal for use where electricity is unavailable or cannot be used. The 5,000 or 10,000 psi pump has a 3 hp air driven motor at 3,000 rpm (optimum performance based on 80 psi air pressure and 50 cfm at the pump). You can drive single or double- acting cylinders with the correct valve.

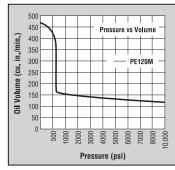
NOTE: 80 psi air supply required to start under full load.

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.

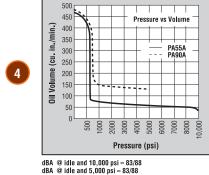


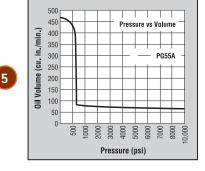




dBA @ idle and 10,000 psi - 80/85

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



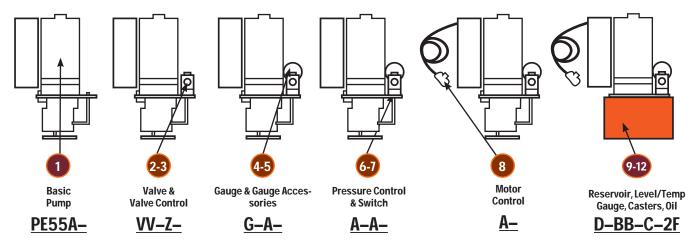




"ASSEMBLE TO ORDER" PUMP HOW TO ORDER YOUR "CUSTOM" HYDRAULIC PUMP...

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

102-103. 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-D-BB-C-2F is a 10,000 psi two-speed pump with a 115 volt, 50-60Hz, single phase, 11/2 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, 400630R9 2-gallon reservoir, a 350431 oil level/temperature gauge, 10494 casters, and 2 gallons of standard hydraulic oil.

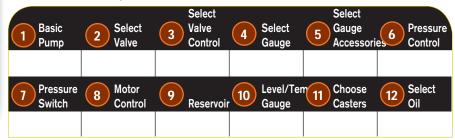
See next two pages for pump components

ASSEMBLE TO ORDER PUMPS

Component

Specification Chart

TO BUILD YOUR PUMP, FILL IN KEY LETTERS FROM CHARTS



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.

1 BASIC PUMP (See pages 82-95)

	BASIC PUMP NUMBERS			SPECIFICATIONS				
PE55	PE90	PE120	PA55	PA90	PG55	NOTE: Customer m	ust specify voltage	required.
(10,000 psi)	(5,000 psi)	(10,000 psi)	(10,000 psi)	(5,000 psi)	(10,000 psi)	Power Source	rpm	hp
A or AC*	A or AC*					115V-60 Hz, 1Ø	12,000	11/8
						110V-50 Hz, 1Ø	12,000	11/8
B or BC*	B or BC*					230V-60 Hz, 1Ø	12,000	11//8
						220V-50 Hz, 1Ø	12,000	11/8
† C or CC*	† C or CC*					115V-60 Hz, 1Ø	3,450	1 1/2
† C50	† C50					110V-50 Hz, 1Ø	2,850	11/2
† D or DC*	† D or DC*					230V-60 Hz, 1Ø	3,450	11/2
† D50	† D50					220V-50 Hz, 1Ø	2,850	11/2
† F60 **	† F60**					208, 230/460V-60 Hz, 3Ø	3,450	11/2
† F50 **	† F50**					220/380V-50 Hz, 3Ø	2,850	11/2
		M60 **				208, 230/460V-60 Hz, 3Ø	3,450	3
		M50 **				220/380V-50 Hz, 3Ø	2,850	3
			Α	Α		Air Motor	3,000	3
					Α	Gas Engine	3,600	6

*Suffixes AC, BC, CC & DC indicate pumps for Canadian orders only. **NOTE:** All electric units have 24 volt secondary circuit. **Voltage Specificatin Required.

2 VALVE (See pages 122-129)

N	Manifold/Manual/Air Operated Directional Valves Function			Manifold/Manual/Air Operated Directional Valves	Function
AB	9628 manual, tandem center	4-way, 3 pos.	0	9609 manual, pressure compensated flow control	3-way, 4 pos.
AC	9632 manual "twin" tandem and open center	valves	R	9506 manual, tandem center Posi-Check®	
Α	None	_	RR	9511 manual, open center	4-way,
В	9626 manifold	Manifold	S	9500 manual, tandem center	3 pos.
С	9584 manual	3-way,	Т	9507 manual, closed center Posi-Check®	valves
D	9582 manual	2 pos.	U	9501 manual, closed center	
Е	9610 automatic, pilot operated	valves		Solenoid Operated Directional Valves	Function
G	9504 manual	3/4-way,	FF	9569 solenoid operated - 24 volt	3-way, 2 pos.
JJ	9594 air operated	2 pos. valves	HH	9572 solenoid operated - 24 volt	3/4-way, 2 pos.
L	9502 manual, closed center "non-interflow"	3-way,	PP	9599 solenoid operated - 24 volt	3-way, 3 pos.
М	9520 manual, tandem center Posi-Check®	3 pos.	VV	9512 solenoid operated - 24 volt	4-way,
N	9576 manual, metering tandem center	valves	WW	9615 solenoid operated - 24 volt	3 pos. valves

3 VALVE CONTROL (See page 130)

١	/alve Remote Control	Use with Valve Valve Remote Contro		alve Remote Control	Use with Valve
Α	None	_	Z	202778 remote hand control, 10 ft.	9512 or 9615
Χ	304718 remote hand control, 10 ft.	9572	ZF	309653 remote foot control, 10 ft.	9512, 9615,
XF	309652 remote foot control, 10 ft.	9572			9569 or 9599
Υ	202777 remote hand control, 10 ft.	9569 or 9599	ZZ	209593 remote hand control, 12 ft.	9594



[†] 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.

4 GAUGE (See page 110-111)

	Pressure Gauges
Α	None
В	Other - Specify
G	9041 0-10,000 psi - 0-689 Bar (2½" dia.)
Н	9040 0-10,000 psi - 0-689 Bar (Liquid) (21/2" dia.)
J	9051 0-10,000 psi - 0-689 Bar (4" dia.)
М	9052 0-10,000 psi - 0-689 Bar (Liquid) (4" dia.)

6 PRESSURE CONTROL (See page 119)

	Pressure Controls
Α	With standard external pressure regulator
С	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.

8 MOTOR CONTROL (See page 130)

	Electric Motor Controls		
А	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.		
В	None		
С	25017 remote motor hand switch, 10 ft.		
D	203225 remote motor hand switch, 10 ft. (heavy duty)		
Е	10461 remote motor foot switch, 10 ft.		
	Air Motor Controls		
AA	Other		
В	None		
Р	27876 hand motor control (for PA55 & PA90 series)		
Q	27877 foot motor control (for PA55 & PA90 series)		

10 OIL LEVEL/TEMP. GAUGE (SEE PAGE 132)

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

11 CASTERS (See page 132)

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

5 GAUGE ACCESSORY (See page 111)

Gauge Accessories			
Α	None		
N	9049 pulsation dampener - All dry gauges		

PRESSURE SWITCH (See page 131)

	Pressure Switch			
Α	None			
	9625 electric pressure switch (500-10,000 psi)			
В	NOTE: Pressure switch is factory pre-set at 10,000 psi			
	unless otherwise specified.			
С	9641 pilot operated air control valve - N.C.			
D	9643 pilot operated air control valve - N.O.			

9 RESERVOIR (See page 133)

	Reservoirs	Capacity
Α	None	_
В	Other - Specify	-
D	40063OR9 - PE55, PE90, PE120, PA55	
	and PA90 series	21/2 gal.
Е	61165† - PE55, PE90, PE120, PA55	
	and PA90 series	2 gal.
	(Oil temperatures in excess of 150° F. may cause	
	permanent failure of the thermoplastic reservoir)	
F	RP22‡ - PE55, PE90, PE120, PA55	
	and PA90 series	21/2 gal.
Н	61799OR9	
	Same as D except with drain port	21/2 gal.
J	RP50 - PE55, PE90, PE120, PA55	
	and PA90 series	5 gal.
K	40137OR9 - PG55 series	5 gal.
Р	209124 - PE55, PE90, PE120, PA55	
	and PA90 series	7 gal.
V	RP100 - PE55, PE90, 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.

12 OIL (See page 112)

	Oil
Е	Ship pump without oil
F	9637 1 gal. standard hydraulic oil
G	9638 2½ gal. standard hydraulic oil
Q	9639 1 gal. Flame-Out hydraulic oil
R	9640 2½ gal. Flame-Out hydraulic oil
U	9645 1 gal. biodegradable hydraulic oil
V	9646 2½ gal. biodegradable hydraulic oil

NOTE: Select type of hydraulic oil and specify quantity.

