




















Power Source	Pump Type	Image	Page Number / Reference Image
<b>Manual</b>	Single Speed Metal Hand Pump (P-Series)		44-45
	Two Speed Metal Hand Pumps (P-Series)		
	Two Speed Aluminum Hand Pumps (P-Series)		
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## Hand Pumps


Aluminum and Steel




### P Series



**Combo Kits**  
Most hand pumps are available in easy to order kits; Pump, Gauge, Couplers, Hose and Cylinder pg 60




**Related Product: Gauges**  
Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need. pg 65



**Safety Instructions**  
Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. pg 102

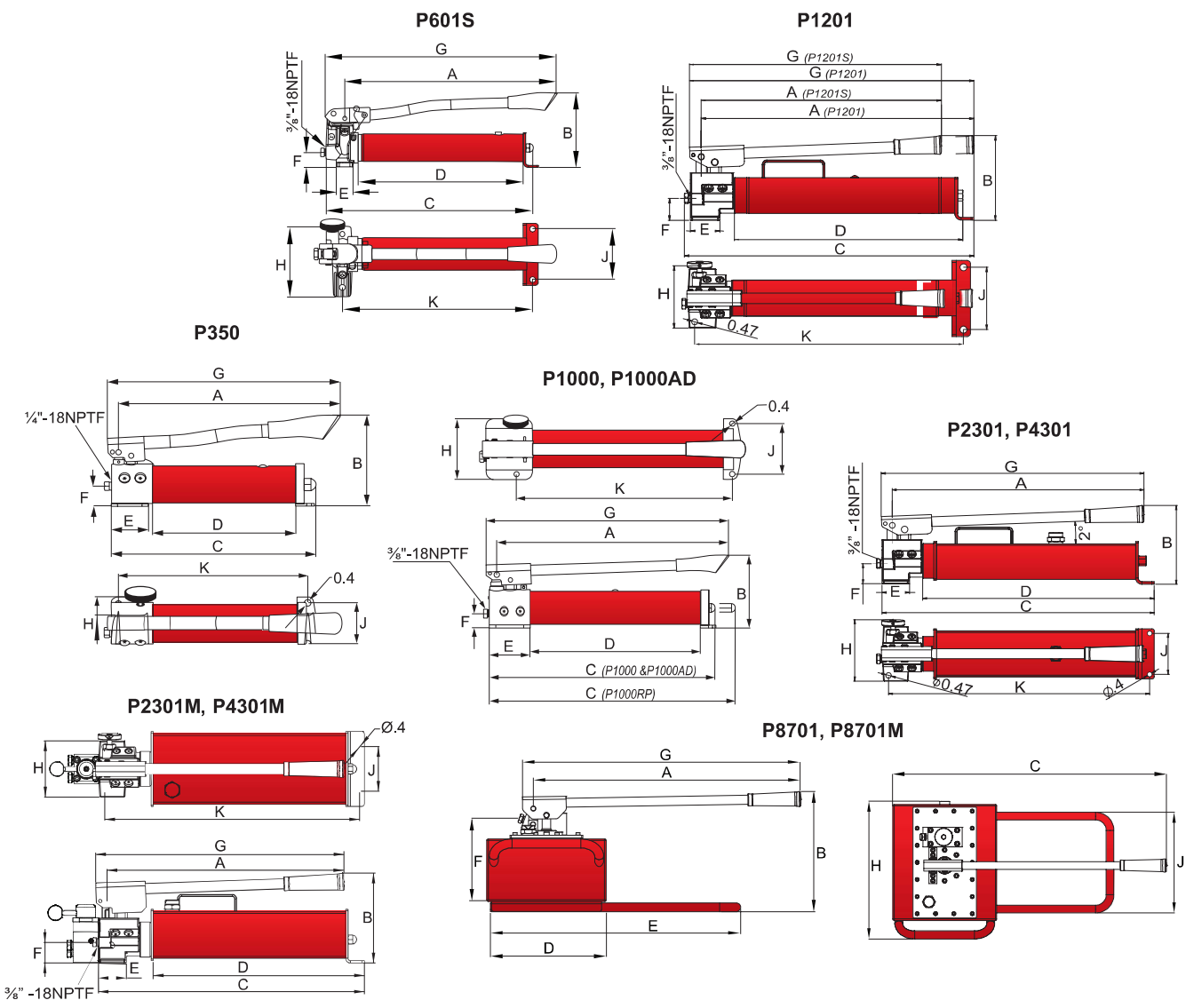
**Product Information**

- Metal reservoirs resist cracking
- Internal pressure relief valve for overload protection
- Perfect for use with cylinders and hydraulic tools or OEM applications
- Two-Speed pumps reduce user fatigue and increase productivity
- P1000AD can not only be used in the standard horizontal position, but can also be used with the outlet port facing upwards or downwards position providing more flexibility in operation



Model Number	Usable Oil Capacity (cc)	Oil Outlet Port	Pressure Rating/Oil Displacement per Stroke		Piston Stroke (mm)	Handle Operating Force (kg)	Reservoir Construction
			1 <sup>st</sup> Stage (BAR/cc)	2 <sup>nd</sup> Stage (BAR/cc)			
<b>Single Speed - Single Acting</b>							
P601S	600	3/8"-18 NPTF	-	700/2.46	20	484.9	Steel
<b>2-Speed - Single Acting</b>							
P350	350	1/4"-18 NPTF	13.8/2.95	700/0.82	10	391.4	Aluminum
P1000	1000	3/8"-18 NPTF	13.8/13.27	700/2.29	21	440.4	Aluminum
P1000AD*	870-1000	3/8"-18 NPTF	13.8/13.27	700/2.29	21	440.4	Aluminum
P1201	1100	3/8"-18 NPTF	13.8/13.27	700/2.29	21	440.4	Steel
P2301	2200	3/8"-18 NPTF	13.8/13.27	700/2.29	21	440.4	Steel
P4301	4100	3/8"-18 NPTF	13.8/13.27	700/2.29	21	440.4	Steel
P8701	7800	3/8"-18 NPTF	20.01/126.34	700/4.75	43	636.1	Steel
<b>2-Speed - Double Acting</b>							
P2301M	2200	3/8"-18 NPTF	13.8/13.27	700/2.29	21	440.4	Steel
P4301M	4100	3/8"-18 NPTF	14/13.2	700/2.3	526	440.0	Steel
P8701M	7800	3/8"-18 NPTF	20.01/126.34	700/4.75	43	636.1	Steel

\* Oil capacity varies by position. Pump can be mounted outlet up or down



Model Number	Dimensions (mm)										Weight w/Oil (kg)
	A	B	C	D	E	F	G	H	J	K	
<b>Single Speed - Single Acting</b>											
P601S	481	164	496	390	40	32	528	132	95	367	5.9
<b>2-Speed - Single Acting</b>											
P350	341	150	353	231	60	34	359	85	65		3.0
P1000	553	161	585	380	91	32	507	124	100	430	6.2
P1000AD*	553	161	585	380	91	32	507	124	100	430	6.2
P1201	552	171	586	467	54	44	575	125	95	464	9.3
P2301	552	173	609	95	25	44	597	135	95	573	12.6
P4301	552	195	581	95	27	44	569	135	95	545	17.1
P8701	655	295	771	293	614	210	684	387	284		34.5
<b>2-Speed - Double Acting</b>											
P2301M	646	173	697	95	27	38	553	120	90	573	14.7
P4301M	525	195	665	569	60	38	552	135	95	545	19.0
P8701M	655	295	771	293	614	229	684	387	284		35.1

\* Oil capacity varies by position. Pump can be mounted outlet up or down and does not need to be horizontal

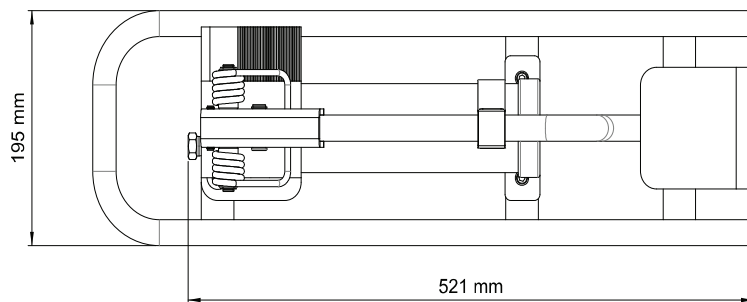
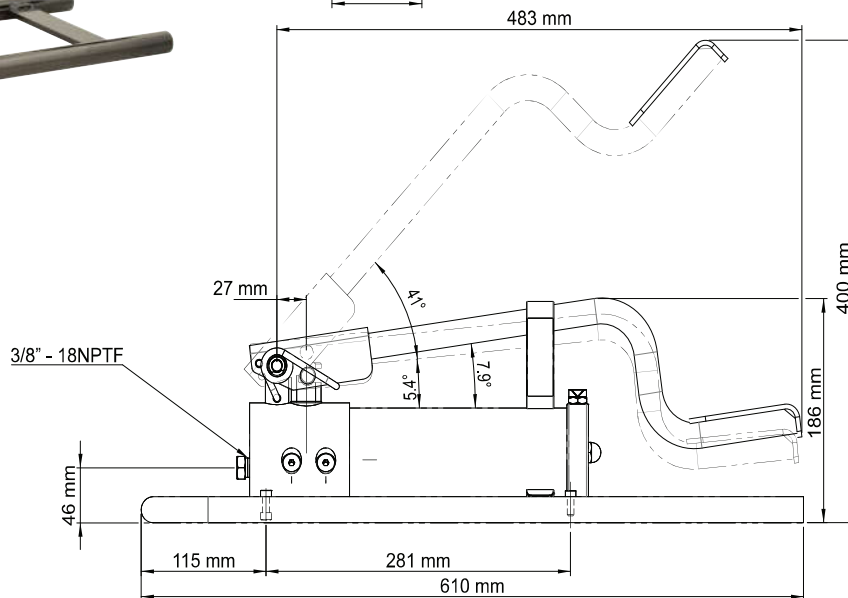
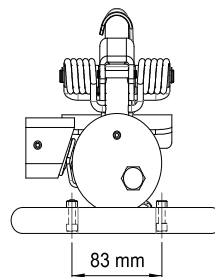


## Foot Pump

P57 Series - 10,000 PSI



P570FP



### Safety Practices

Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.



### HF Kits

Consider using our portable HF kits in conjunction with this pump.

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### Safety Instructions

Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared.

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### High-Flow Couplers

High-Flow Coupler: CH38F is included on all models (except where specified).

### Related Product: Nut Splitters

The HNS nut splitters pair up with this portable foot pump. Our hydraulic nut splitters come in a spacious tool box so its easy to carry around from site-to-site. This tool box is large enough to hold small cylinders, saddles, spacers or whatever tool you need to bring with you to your next job site.



Model Number	Bolt Range	Hexagon Nut Range
NS1319	6-12	13-19
NS1924	12-16	19-24
NS2432	16-22	24-32
NS3241	22-27	32-41
NS4150	27-33	41-50
NS5060	33-39	50-60
NS6075	39-48	60-75

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Usable Oil (cc)	Model Number	Pressure Rating (BAR)		Oil Displacement per Stroke (cc)		Max. Handle Effort (kg)	Piston Stroke (mm)	Weight (kg)
		1st Stage	2nd Stage	"1st Stage"	2nd Stage			
500	P570FP	13.8	690	13	2	57.7	21	8.2

# All Position Aluminium Pumps

- Pump can work in any position
- Mounting plate allows the pump to be securely fastened.



Model Number	Usable Oil Capacity (L)	Oil Outlet Port	Output Flow Rate		Input Air Pressure Required (BAR)	Air Consumption (L/min)	Reservoir Construction
			No Load (L/min)	Load (L/min)			
<b>Single Acting</b>							
PA600	138.5	3/8"-18 NPTF	1.00	0.15	7.59-12.07	220.87	Aluminum
PA600H	138.5	3/8"-18 NPTF	1.00	0.15	7.59-12.07	220.87	Aluminum

Model Number	Usable Oil Capacity (cc)	Oil Outlet Port	Pressure Rating/Oil Displacement per Stroke		Piston Stroke (mm)	Handle Operating Force (kg)	Reservoir Construction
			1 <sup>st</sup> Stage (BAR/cc)	2 <sup>nd</sup> Stage (BAR/cc)			
<b>2-Speed - Single Acting</b>							
P1000AD*	869-1016	3/8"-18 NPTF	13.8/13.27	700/2.29	21	440.4	Aluminum

\* Oil capacity varies by position. Pump can be mounted outlet up or down

For sizes: P1000AD - Page 44  
PA600 & PA600H - Page 48





## Air Pumps

Air Actuated Power

### PA Series



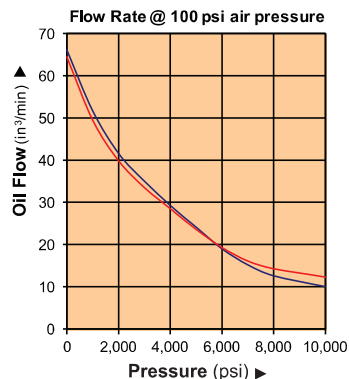
PA1500



PA600H



PA600



Air Consumption = 7.8cfm



PA2000

PA3801

PA7550

### Product Information

- Metal reservoirs resist cracking
- US Patent No. 5,946,912, a built in bypass device protects the hydraulic system from over pumping damage
- A compact yet powerful Air Turbo Motor US Patent No. 5,341,723
- Suggested air inlet range: 110-175 psi / 7.6-12.1 bar
- Maximum working pressure: 10,000 psi / 700 Bar



PA7550M

PA3801M

PA1500M

### PA1500A Pressure Adjustment



PA1500A Pressure can be adjusted externally from 1,000 psi / 70 Bar to 10,000 psi / 700 Bar.

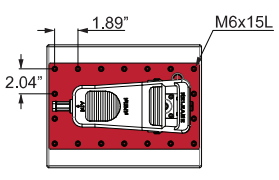
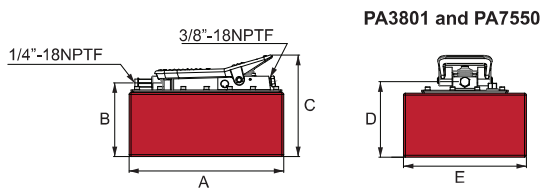
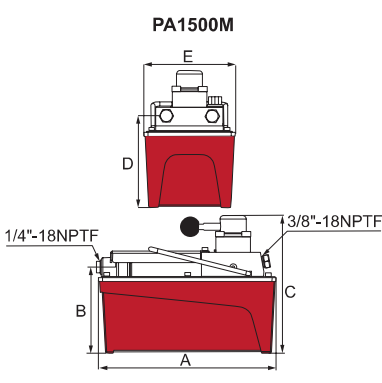
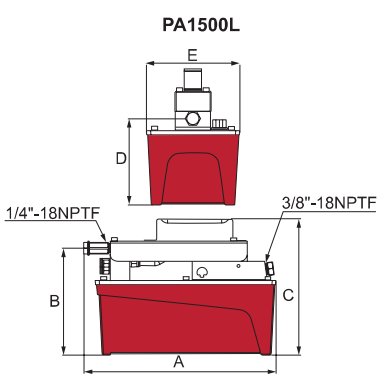
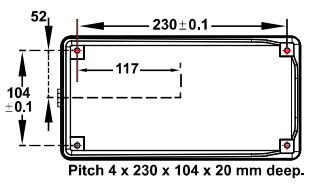
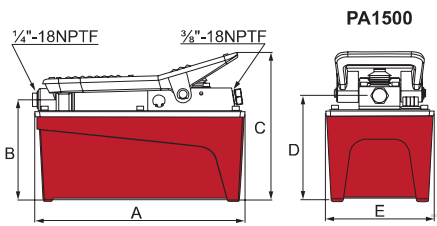
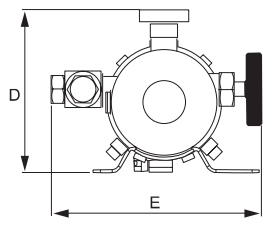
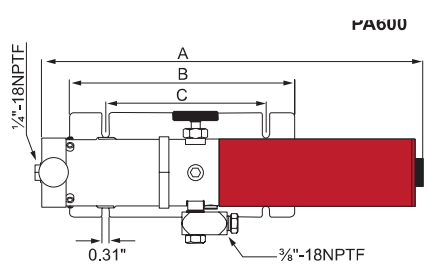
Model Number	Usable Oil Capacity (L)	Oil Outlet Port	Output Flow Rate		Input Air Pressure Required (BAR)	Air Consumption (L/min)	Reservoir Construction
			No Load (L/min)	Load (L/min)			
<b>Single Acting</b>							
PA600	138.5	3/8"-18 NPTF	1.00	0.15	7.59-12.07	220.87	Aluminum
PA600H	138.5	3/8"-18 NPTF	1.00	0.15	7.59-12.07	220.87	Aluminum
PA1500	346.4	3/8"-18 NPTF	1.08	0.18	7.59-12.07	220.87	Aluminum
PA1500A*	346.4	3/8"-18 NPTF	1.08	0.18	7.59-12.07	220.87	Aluminum
PA1500L**	346.4	3/8"-18 NPTF	1.00	0.16	7.59-12.07	220.87	Aluminum
PA2000	462.2	3/8"-18 NPTF	1.07	0.20	7.59-12.07	220.87	Aluminum
PA3801	877.8	3/8"-18 NPTF	1.07	0.18	7.59-12.07	220.87	Steel
PA3801L**	877.8	3/8"-18 NPTF	1.00	0.16	7.59-12.07	220.87	Steel
PA7550	1743.6	3/8"-18 NPTF	1.07	0.18	7.59-12.07	220.87	Steel
<b>Double Acting</b>							
PA1500M	346.4	3/8"-18 NPTF	1.08	0.18	7.59-12.07	220.87	Aluminum
PA3801M	877.8	3/8"-18 NPTF	1.07	0.18	7.59-12.07	220.87	Steel
PA7550M	1743.6	3/8"-18 NPTF	1.07	0.18	7.59-12.07	220.87	Steel

\* This unit is equipped with an external pressure adjustment (70-700 bar)

\*\*These pumps are equipped with a hand held air powered pendant



PA Series



**Air Pump Combo**  
 PA1500 air pumps are available in easy to order kits: pump, gauge, coupler, hose and cylinder  
 pg 60

**Related Product: Hoses**  
 We offer a variety of hoses, fittings, lengths and materials.  
 pg 67

Model Number	Base Mounting Holes	Dimensions (mm)					Weight w/ Oil (kg)
		A	B	C	D	E	
<b>Single Acting</b>							
PA600	yes	426	250	178	157	142	6.4
PA600H	yes	426	250	178	114	146	5.7
PA1500	yes	263	127	185	131	136	8.2
PA1500A*	yes	263	127	185	131	136	8.2
PA1500L**	yes	278	160	204	130	136	8.8
PA2000	yes	321	163	207	132	187	9.1
PA3801	no	321	129	187	133	187	12.3
PA3801L**	no	321	163	207	132	187	13.8
PA7550	no	321	127	211	156	214	16.3
<b>Double Acting</b>							
PA1500M	yes	267	127	203	136	136	8.7
PA3801M	no	321	128	204	135	187	10.9
PA7550M	no	321	152	229	161	255	18.1

\* Unit is equipped with an external pressure adjustment (70-700 bar)  
 \*\*These pumps are equipped with a hand held air powered pendant



## Rotary Air Pumps

PAR Series - 10,000 PSI Rated



### Related Product: Gauges

Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need.

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### Related Product: Hoses

We offer a variety of hoses, fittings, lengths and materials.

pg 67



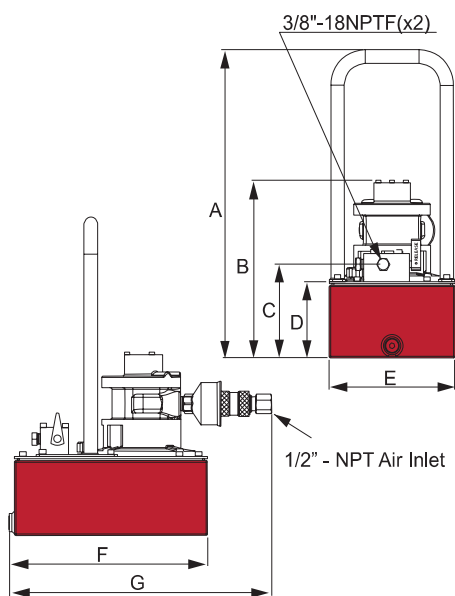
PARM4003

PARD1701

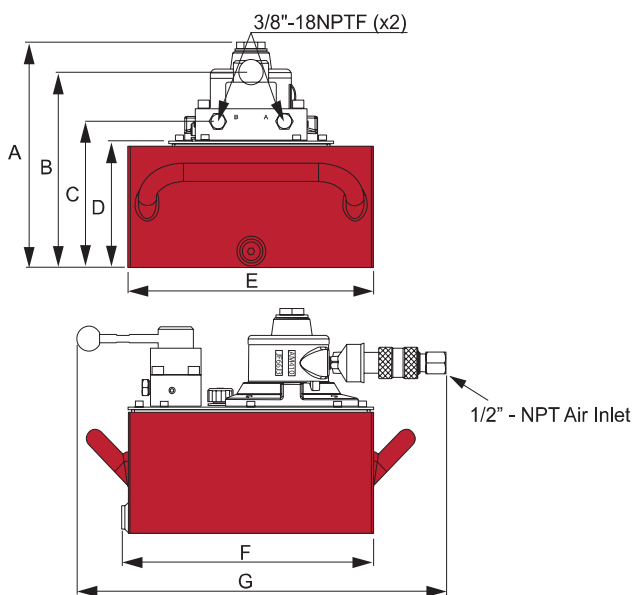
PARD1703

### PAR Series

PARD1701



PAR1703 and PAR4003



Used with Cylinder	Motor Size (hp)	Usable Oil Capacity (L)	Model Number	Pressure Rating (BAR)	Pressure Rating		Oil Output Flow Rate		Valve Type	Valve Function	Air Pressure Range (BAR)
					1 <sup>st</sup> Stage (BAR)	2 <sup>nd</sup> Stage (BAR)	1 <sup>st</sup> Stage (L/min)	2 <sup>nd</sup> Stage (L/min)			
Single Acting	1.7	3.8	PARD1701	700	48.30	700	5.13	0.36	Dump	Advance/Return	4.14~5.52
	1.7	11.4	PARD1703	700	48.30	700	5.13	0.36	Dump	Advance/Return	4.14~5.52
	1.7	11.4	PAR1703	700	48.30	700	6.83	0.36	Manual PW3	Advance/Hold/Return	4.14~5.52
	4	11.4	PAR4003	700	48.30	700	7.62	1.15	Dump	Advance/Return	4.14~0.69
	4	11.4	PAR4003	700	48.30	700	8.39	1.15	Manual PW3	Advance/Hold/Return	4.14~0.69
Double Acting	1.7	11.4	PARM1703	700	48.30	700	6.83	0.36	Manual PW4	Advance/Hold/Return	4.14~5.52
	4	11.4	PARM4003	700	48.30	700	8.39	1.15	Manual PW4	Advance/Hold/Return	4.14~0.69

Model Number	Air Consumption (L/min)	Max Sound Level (dBA)	Dimensions (mm)							Weight (kg)
			A	B	C	D	E	F	G	
PARD1701	1245.94	93	485	239	147	120	205	313	404	19.1
PARD1703	1245.94	93	-	304	212	185	305	313	456	24.5
PAR1703	1245.94	93	303	267	209	185	305	313	459	24.9
PARD4003	2690.10	100	-	344	212	185	305	313	467	29.9
PAR4003	2690.10	100	344	267	209	185	305	313	470	30.4
PARM1703	1245.94	93	303	267	209	185	305	313	459	24.9



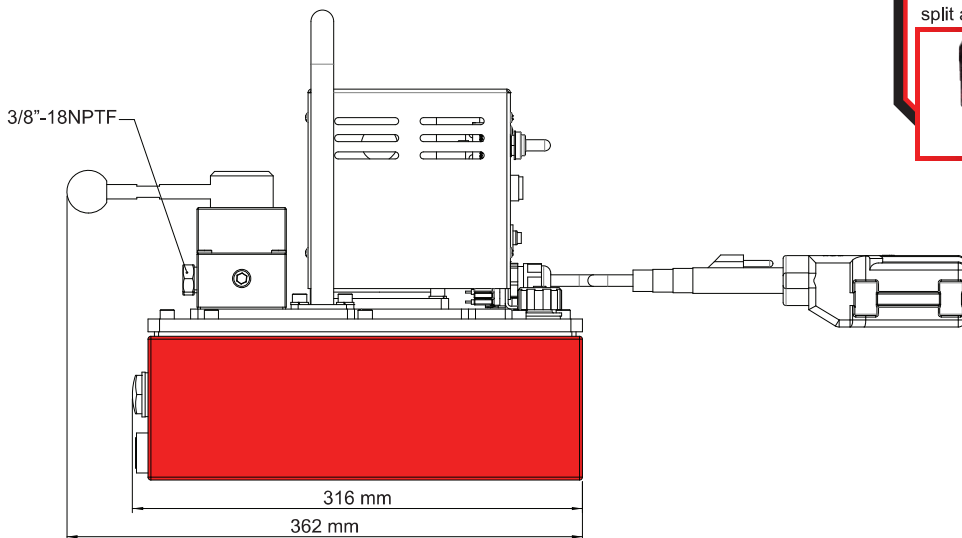
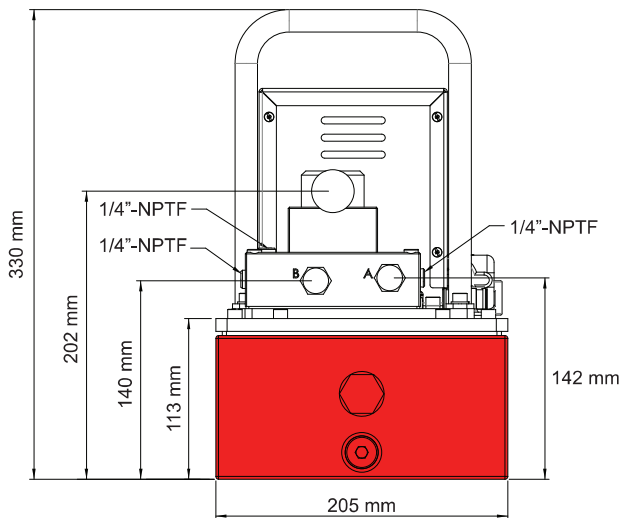
# Universal Motor Pumps

## PU Series - Light-Weight Pumps



PU20M4N01B

- Portable, light weight and compact design
- Universal Motor, starts under full load and is available in either 120VAC 50/60 HZ or 240VAC 50/60HZ
- 3mt 24 VAC pendant control for safety
- Weighs only 17 kg. with oil
- External pressure adjustment is available
- Designed for intermittent duty operation
- Gauge port on control valve



### Hydraulic Gear Pullers

5, 10, 15, 25 & 50 Ton Hydraulic Gear Pullers have a safety cage design to help keep the jaws tight to the gear and prevent slippage that can cause injury. Pair these with BVA's PU20M3N01B Lightweight e-pump for portability.



pg 88

### Flange Spreaders

BVA's Pin Type Flange Spreaders are available in both 5 & 10 Ton models and well suited for most environments. For portability and speed the PU20M4N01B would be an ideal choice.



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### Hydraulic Nut Splitters

Available in 3 models, each nut splitter can split a wide range of nut sizes thereby reducing the number of splitters needed. The BVA PU20DMP01B dump style pump functions well with these splitters.



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Valve Function	Flow Rate				Motor Size	Voltage 50/60 Hz		Weight (kg)	Length (mm)	Width (mm)	Height (mm)
	1st Stage		2nd Stage			120 VAC	240 VAC				
	L/min	BAR	L/min	BAR		Model #	Model #				
3W/3P Advance/Hold Return	2.18	13.80	0.46	700	1.0 Hp	PU20M3N01B	PU20M3N01C	16.8	362	205	300
4W/3P Advance/Hold/Return	2.18	13.80	0.46	700	1.0 Hp	PU20M4N01B	PU20M4N01C	16.8	362	205	300



## Electric Pumps

PE30, PE40, PE50 Series

- Single Phase

- Meets OSHA regulations for sound (80dBA)
- 2 Stage pumps provide fast run up before the high pressure stage
- Suction strainers screen out contamination to prevent pump damage
- All units are wired as 240 VAC 50 Hz
- All hand pendants are wired 24 VAC for safety
- Starts under full load



PE40M4N02D



PEW03 Optional

Use with Cylinder Type	Flow Rate				Motor Size
	1 <sup>st</sup> Stage		2 <sup>nd</sup> Stage		
	L/min	BAR	L/min	BAR	

Manual Valve							
	3W/3P Advance /Hold Return		4.80	24.15	0.30	700	0.5 Hp
			5.10	48.30	0.61	700	1.0 Hp
			7.80	48.30	1.00	700	1.5 Hp
	4W/3P Advance /Hold/Return		6.3	48	1.22	700	3 Hp
			4.80	24.15	0.30	700	0.5 Hp
			5.10	48.30	0.61	700	1.0 Hp
			7.80	48.30	1.00	700	1.5 Hp
			6.3	48	1.22	700	3 Hp
Manual Valve w/10 ft. Motor Pendant							
	3W/3P Advance /Hold Return		4.80	24.15	0.30	700	0.5 Hp
			5.10	48.30	0.61	700	1.0 Hp
			7.80	48.30	1.00	700	1.5 Hp
	4W/3P Advance /Hold/Return		6.3	48	1.22	700	3 Hp
			4.80	24.15	0.30	700	0.5 Hp
			5.10	48.30	0.61	700	1.0 Hp
			7.80	48.30	1.00	700	1.5 Hp
			6.3	48	1.22	700	3 Hp
Solenoid Valve w/10 ft. Pendant & Locking Plate							
	3W/3P Advance /Hold Return		4.80	24.15	0.30	700	0.5 Hp
			5.10	48.30	0.61	700	1.0 Hp
			7.80	48.30	1.00	700	1.5 Hp
	4W/3P Advance /Hold/Return		6.3	48	1.22	700	3 Hp
			4.80	24.15	0.30	700	0.5 Hp
			5.10	48.30	0.61	700	1.0 Hp
			7.80	48.30	1.00	700	1.5 Hp
			6.3	48	1.22	700	3 Hp



**PE Series**

**80%**

**Safety Practices**  
 Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.

Usable Oil Capacity						
1 Gal	2 Gal	3 Gal	5 Gal	10 Gal	15 Gal	25 Gal
Model Number	Model Number	Model Number	Model Number	Model Number	Model Number	Model Number
<b>Manual Valve</b>						
PE30M3N01D	PE30M3N02D	PE30M3N03D	-	-	-	-
-	PE40M3N02D	PE40M3N03D	PE40M3N05D	PE40M3N10D	PE40M3N15D	PE40M3N25D
-	-	PE50M3N03D	PE50M3N05D	PE50M3N10D	PE50M3N15D	PE50M3N25D
PE30M4N01D	PE30M4N02D	PE30M4N03D	-	-	-	-
-	PE40M4N02D	PE40M4N03D	PE40M4N05D	PE40M4N10D	PE40M4N15D	PE40M4N25D
-	-	PE50M4N03D	PE50M4N05D	PE50M4N10D	PE50M4N15D	PE50M4N25D
<b>Manual Valve w/10 ft. Motor Pendant</b>						
PE30W3N01D	PE30W3N02D	PE30W3N03D	-	-	-	-
-	PE40W3N02D	PE40W3N03D	PE40W3N05D	PE40W3N10D	PE40W3N15D	PE40W3N25D
-	-	PE50W3N03D	PE50W3N05D	PE50W3N10D	PE50W3N15D	PE50W3N25D
PE30W4N01D	PE30W4N02D	PE30W4N03D	-	-	-	-
-	PE40W4N02D	PE40W4N03D	PE40W4N05D	PE40W4N10D	PE40W4N15D	PE40W4N25D
-	-	PE50W4N03D	PE50W4N05D	PE50W4N10D	PE50W4N15D	PE50W4N25D
<b>Solenoid Valve w/10 ft. Pendant</b>						
PE30S3N01D	PE30S3N02D	PE30S3N03D	-	-	-	-
-	PE40S3N02D	PE40S3N03D	PE40S3N05D	PE40S3N10D	PE40S3N15D	PE40S3N25D
-	-	PE50S3N03D	PE50S3N05D	PE50S3N10D	PE50S3N15D	PE50S3N25D
PE30S4N01D	PE30S4N02D	PE30S4N03D	-	-	-	-
-	PE40S4N02D	PE40S4N03D	PE40S4N05D	PE40S4N10D	PE40S4N15D	PE40S4N25D
-	-	PE50S4N03D	PE50S4N05D	PE50S4N10D	PE50S4N15D	PE50S4N25D



# Electric Pumps

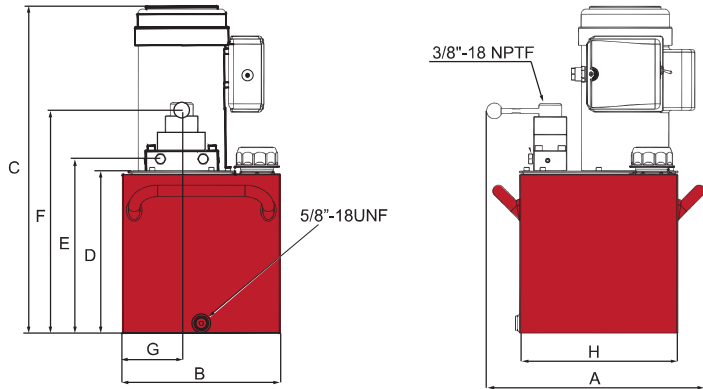
Electric Power Source



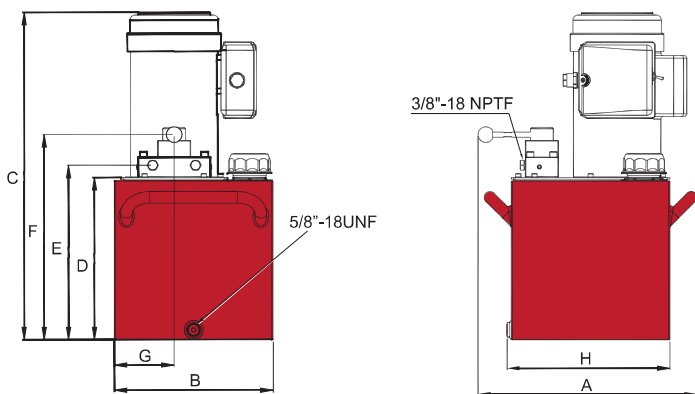
PE30M4N01D

PE60M4N15D

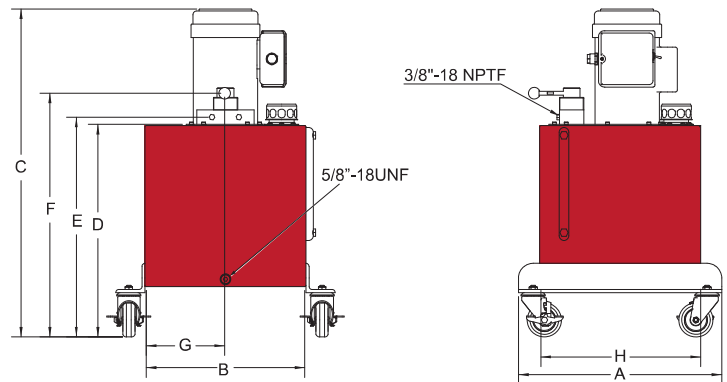
## PE30 Series



## PE40/PE50/PE60 Series



## PE40/PE50 Series With Casters



**Pump Accessories**  
See the assortment of accessories designed to work with these pumps. *pg 62*

**80% Safety Practices**  
Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.

**Safety Instructions**  
Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. *pg 102*

**Pressure Settings**  
Custom pressure settings available upon request. Contact your local BVA dealer.

**Reservoir Sizing**  
Recommended reservoir sizing is Extended Cylinder + Hose Volume Oil Capacity x 1.3

Reservoir Size (L)	Dimensional Table (mm)								Pump Weight by Series* (kg)			
	A	B	C	D	E	F	G	H	PE30	PE40	PE50	PE60
3.8	323	262	485	119	145	305	206	315	27.7	-	-	-
7.6	424	305	455	152	175	335	114	315	34.0	32.7	-	-
11.4	424	305	500	183	208	267	114	315	38.1	36.7	41.3	-
18.9	424	305	630	312	335	394	114	315	-	46.3	50.8	47.3
37.9	531	419	800	483	505	566	211	419	-	83.5	88.0	-
56.8	531	419	879	561	587	645	211	419	-	115.7	120.2	76
94.6	650	541	879	561	587	645	269	541	-	164.2	168.7	-

\* Pump weights include oil.

## Single Phase Pump Matrix Chart

If you don't see a pump that would fit your application needs, you can custom build a pump to your desired specifications. Use this Pump Matrix Chart as a guide for creating your very own custom built Electric Pump. For assistance in building your pump, call your local BVA Representative.

**P** **E** **30** **S4L** **02** **A**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Product Type	Motor Type	Flow Group	Valve Type /Operation	Reservoir Size	Voltage

### 1 - Product Type

**P** Pump

### 2 - Motor Type

**E** Induction Electric Motor, TEFC

### 3 - Flow Group

<b>30</b>	293/18 in3/min @ 350//700 BAR, ½ Hp (0.37 kN)
<b>40</b>	311/37 in3/min @ 700//700 BAR, 1 Hp (0.75 kN)
<b>50</b>	476/61 in3/min @ 700//700 BAR 1.5 Hp (1.12 kN)
<b>60</b>	6.3/1.22 L/min @ 48//700 BAR, 3 Hp (2.24 kN)

### 4 - Valve Type/Operation

<b>CMR</b>	Pump Mounted Manifold Block - Pressure & Return Ports Only
<b>M2N</b>	Manual Valve 3W/2P
<b>M3N</b>	Manual Valve 3W/3P
<b>M4N</b>	Manual Valve 4W/3P
<b>M3L</b>	Manual Valve 3W/3P w/Locking Plate
<b>M4L</b>	Manual Valve 4W/3P w/Locking Plate
<b>W2N</b>	Manual Valve 3W/2P w/10ft Motor Control Pendant
<b>W3N</b>	Manual Valve 3W/3P w/10ft Motor Control Pendant
<b>W4N</b>	Manual Valve 4W/3P w/10ft Motor Control Pendant
<b>W3L</b>	Manual Valve 3W/3P w/Locking Plate and 10ft Motor Control Pendant
<b>W4L</b>	Manual Valve 4W/3P w/Locking Plate and 10ft Motor Control Pendant
<b>S3N</b>	Solenoid Valve 3W/3P (Spool Type)
<b>S4N</b>	Solenoid Valve 4W/3P (Spool Type)
<b>S3L</b>	Solenoid Valve 3W/3P w/Locking Plate (Spool Type Valve)
<b>S4L</b>	Solenoid Valve 4W/3P w/Locking Plate (Spool Type Valve)

### 5 - Reservoir Size

<b>01</b>	1 Gallon / 3.8 L
<b>02</b>	2 Gallons / 7.6 L
<b>03</b>	3 Gallons / 11.4 L
<b>05</b>	5 Gallons / 19.4 L
<b>10</b>	10 Gallons / 38 L
<b>15</b>	15 Gallons / 56 L
<b>25</b>	25 Gallons / 95 L

### 6 - Voltage

<b>A</b>	120V 1 ph 50 Hz
<b>D</b>	230V 1 ph 50 Hz - European Plug



PE Series

### Ordering Example

**PE30M4N01D**

After reviewing this model number, we know that the pump has the following specifications:

- Electric power source
- ½ Hp (0.37 kN) flow group
- Manual Valve 4W/3P
- 1 gallon/3.8 L reservoir tank



PE30M4N01D

### Related Product: Gauges



Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need. pg 65

### Related Product: Footpedals



These can be used with all pumps equipped with solenoid valves. pg 66

### Related Product: Hoses



We offer a variety of hoses, fittings, lengths and materials. pg 67

### Safety Instructions



Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. pg 102

Not all options are available in all configurations. Table is for reference only. Please consult your local BVA dealer if you want to order a custom pump or if you have questions.



# 3-Phase Electric Pumps

## Electric Power Source



PE60M4N06W

- All hand pendants are wired with 24 VAC
- Quiet operation meets OSHA regulations (80dBA)
- 2 speed operation allows for faster cylinder advance
- Full load starting capacities
- Internal suction strainer keeps contamination from damaging pump
- Rugged durable design meets the demands of industrial applications
- Precision components to minimize wear and improve overall dependability
- Reservoirs equipped with sight level gauges
- PE60 Models are standard as 380 VAC 50 Hz

## 3-Phase Pump Matrix Chart

If you don't see a pump that would fit your application needs, you can custom build a pump to your desired specifications. Use this Pump Matrix Chart as a guide for creating your very own custom built Electric Pump. For assistance in building your pump, call your local BVA Representative.

**P | E | 60 | M4N | 06 | W**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<i>Product Type</i>	<i>Motor Type</i>	<i>Flow Group</i>	<i>Valve Type /Operation</i>	<i>Reservoir Size</i>	<i>Voltage</i>

### 1 - Product Type

P Pump

### 2 - Motor Type

E Induction Electric Motor, TEFC

### 3 - Flow Group

60 6300 cc/min @ 48 BAR  
1330 cc/min @ 700 BAR, 3.0 Hp

### 4 - Valve Type/Operation


M3N Manual Valve 3W/3P  
M4N Manual Valve 4W/3P  
W3N Manual Valve 3W/3P w. 10 ft Motor Control Pendant  
W4N Manual Valve 4W/3P w. 10 ft Motor Control Pendant

### 5 - Reservoir Size

06 6 Gallons

### 6 - Voltage


W 380-415V 3 ph 50 Hz




**Pressure Settings**  
Custom pressure settings available upon request. Contact your local BVA dealer.




**Safety Practices**  
Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.




**Pump Accessories**  
See the assortment of accessories designed to work with these pumps. pg 62



**Related Product: Gauges**  
Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need. pg 65

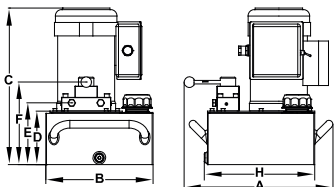


**Related Product: Hoses**  
We offer a variety of hoses, fittings, lengths and materials. pg 67



**Safety Instructions**  
Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. pg 102

Model Number	Valve Type	Valve Function	Motor Voltage (volts)	Sound Level (dBA)	Motor Size (kW)	Usable Oil Capacity (L)	Pressure Rating (BAR)		Oil Output Flow Rate (L)		Current Draw (Amp)
							1 <sup>st</sup> Stage	2 <sup>nd</sup> Stage	1 <sup>st</sup> Stage	2 <sup>nd</sup> Stage	
380 Volt											
PE60M4N06W	Manual	4-Way 3-Position	380	80	2.24	22.7	48	700	6.3	1.33	4.5



Model Number	Dimensions (mm)							Weight (kg)
	A	B	C	D	E	F	H	
380 Volt								
PE60M4N06W	524	376	583	224	247	307	436	62

# Gas and Diesel Pumps

PG/PD Series - Portable Power



PG70M4N05



PD70M4N05

**80%** **Safety Practices**  
 Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.

**Related Product: Gauges**  
 Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need. *pg 65*

**Related Product: Hoses**  
 We offer a variety of hoses, fittings, lengths and materials. *pg 67*

**Safety Instructions**  
 Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. *pg 102*

**Gas Pumps**

- Gas engine pumps will provide 10,000 psi at remote locations
- Industrial grade 5.5 Honda Gas Engine
- Ideal for applications at remote locations
- Two speed pump designed for rapid cylinder advance
- Gas pump features a sturdy protective roll cage for use in the toughest environments
- Manual control valve for use with single or double acting cylinders or tools

**Diesel Pumps**

- Diesel engine pumps will provide 10,000 psi at remote locations
- Industrial grade 4.6 hp / 3.5 kN HATZ Diesel engine
- Locking solenoid control valve for use with single or double acting cylinders or tools
- Two speed pump designed for rapid cylinder advance
- Pump features a sturdy protective roll cage for use in the toughest environments
- Ideal for application when diesel fuel in remote environments is required
- Optional: electric start

Valve Function	Valve Type	Use with Cylinder Type	Flow Rate			
			1 <sup>st</sup> Stage		2 <sup>nd</sup> Stage	
			L/min	BAR	L/min	BAR
3W/3P Advance/Hold Return	Manual		7.0	48.3	1.6	700
	Solenoid (only for Diesel)		9.8	48.3	3.3	700
4W/3P Advance/Hold Return	Manual		7.0	48.3	1.6	700
	Solenoid (only for Diesel)		9.8	48.3	3.3	700



## Gas/Diesel Pump Matrix Chart

If you don't see a pump that would fit your application needs, you can custom build a pump to your desired specifications. Use this Pump Matrix Chart as a guide for creating your very own custom gas/diesel pump. For assistance in building your pump, call your local BVA Representative.

<b>P</b>	<b>D</b>	<b>70</b>	<b>S4L</b>	<b>05</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4*</b>	<b>5</b>
Product Type	Motor Type	Flow Group	Valve Type /Operation	Reservoir Size

### 1 - Product Type

**P** Pump

### 2 - Motor Type

**G** Gas Motor  
**D** Diesel Motor

### 3 - Flow Group

**70** 7000 cc/min @ 48 BAR  
1640 cc/min @ 700 BAR

### 4\* - Valve Type/Operation

**CMR** Pump Mounted Manifold Block - Pressure & Return Ports Only

**M2N** Manual Valve 3W/2P  
**M3N** Manual Valve 3W/3P  
**M4N** Manual Valve 4W/3P  
**M3L** Manual Valve 3W/3P w/Locking Plate  
**M4L** Manual Valve 4W/3P w/Locking Plate

**S3N** Solenoid Valve 3W/3P (Spool Type)  
**S4N** Solenoid Valve 4W/3P (Spool Type)  
**S3L** Solenoid Valve 3W/3P w/Locking Plate (Spool Type Valve)  
**S4L** Solenoid Valve 4W/3P w/Locking Plate (Spool Type Valve)

### 5 - Reservoir Size

**05** 5 Gallons  
**10** 10 Gallons  
**15** 15 Gallons



**PG/PD Series**

### Ordering Example

**PG70M4N05**

After reviewing this model number, we know that the pump has the following specifications:

- Gasoline power source
- Manual Valve 4W/3P
- 5 gallon reservoir tank



### Roll Cages



All gas and diesel pumps are equipped with roll cages to prevent any damage that might occur on a job site.

### Optional Electric Start



Electric start is optional and available with the diesel engine.

\* Solenoid options are not available on the PG70 Series Gas Pumps

Not all options are available in all configurations. Table is for reference only. Please consult your local BVA dealer if you want to order a custom pump or if you have questions.

Motor HP / Type	Usable Oil Capacity		
	5 Gallons	10 Gallons	15 Gallons
	Model Number	Model Number	Model Number
Gas - 5.5 Hp Honda	PG70M3N05	-	-
Diesel - 7.3 Hp HATZ	PD70S3L05	PD70S3L10	PD70S3L15
Gas - 5.5 Hp Honda	PG70M4N05	-	-
Diesel - 7.3 Hp HATZ	PD70S4L05	PD70S4L10	PD70S4L15



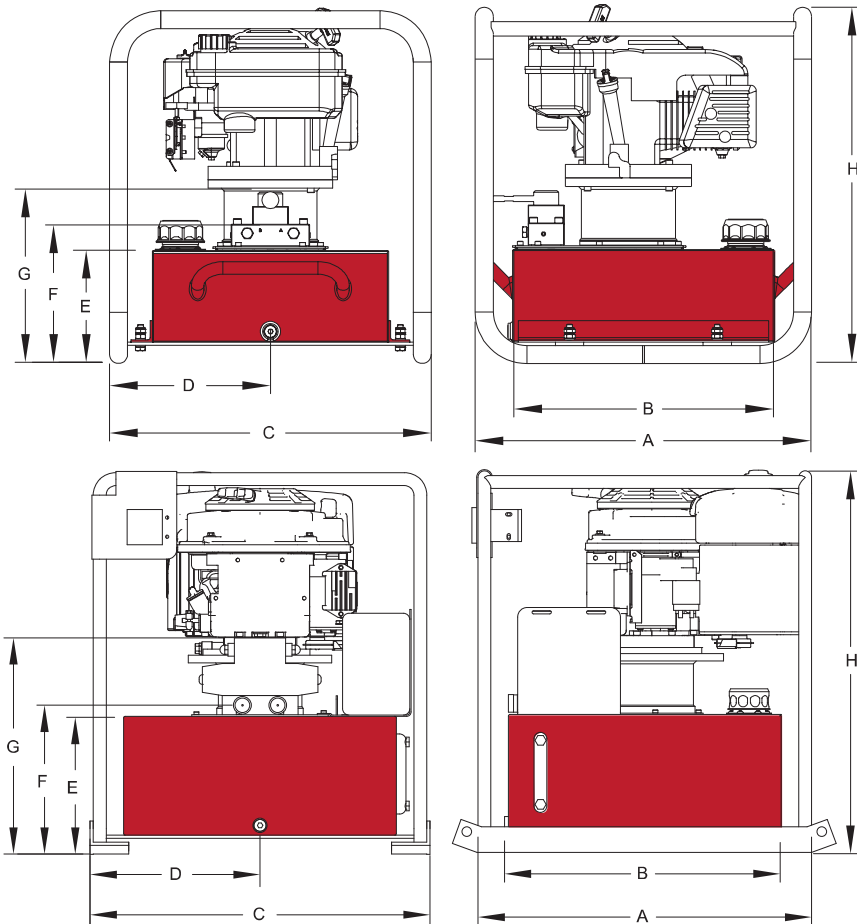
# Gas and Diesel Pumps

PG/PD Series



PG70M3N05

PD70M4N05



**Safety Practices**  
Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.

**Related Product: Gauges**  
Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need. pg 65

**Related Product: Hoses**  
We offer a variety of hoses, fittings, lengths and materials. pg 67

**Safety Instructions**  
Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. pg 102

Pumps

Model Number*	Dimensions (mm)								Weight** (Kg)
	A	B	C	D	E	F	G	H	
<b>Gas Pumps</b>									
PG70xxx05	675	546	532	266	292	316	393	627	73.5
PG70xxx10	718	594	686	343	305	328	441	627	137.4
PG70xxx15	718	594	686	343	305	328	441	627	168.7
<b>Diesel Pumps</b>									
PD70xxx05	675	546	532	266	292	316	393	828	115.7
PD70xxx10	718	594	686	343	305	328	441	828	149.2
PD70xxx15	718	660	686	343	305	328	441	828	182.8

\* "xxx" in the model number refers to the type of valve you may use on the gas/diesel engine pump. Refer to your local BVA dealer or the Matrix Chart (on page 61) to build your own pump.  
\*\* Pump weights include oil.



## Combinations

### Pump and Cylinder Sets

Each set includes:

- 1/4" ID 2 meter Hydraulic Hose
- 3/8" High Flow Male Coupler
- Adapter (SP3 Models Only)
- 63 mm Diameter Wet Gauge



Single Acting Cylinder Type	Cylinder				Hand Pump P350	Hand Pump P1000	Hand Pump P2301	Air Pump PA1500
	Capacity	Model Number	Stroke (mm)	Collapsed Height (mm)				
General Purpose Cylinders 	5 Ton 44 kN	H0505	129	221	SP3-0505	-	-	-
	10 Ton 89 kN	H1002	51	123	-	SP10-1002	-	SA15-1002
		H1004	102	174	-	SP10-1004	-	SA15-1004
		H1006	151	250	-	SP10-1006	-	SA15-1006
		HT1006	151	291	-	SP10-1006T	-	SA15-1006T
		H1010	253	352	-	SP10-1010	-	SA15-1010
		HT1010	253	393	-	SP10-1010T	-	SA15-1010T
	15 Ton 133 kN	H1504	101	200	-	SP10-1504	-	SA15-1504
		H1506	152	270	-	SP10-1506	-	SA15-1506
	25 Ton 222 kN	H2502	51	168	-	SP10-2502	-	SA15-2502
		H2504	102	219	-	SP10-2504	-	SA15-2504
		H2506	155	272	-	SP10-2506	-	SA15-2506
		H2508	206	323	-	-	SP23-2508	SA15-2508
		H2514	362	476	-	-	SP23-2514	SA15-2514
55 Ton 489 kN	H5506	159	283	-	-	SP23-5506	SA15-5506	
100 Ton 890 kN	H10002	51	219	-	-	SP23-10002	-	
Flat Body Cylinders 	5 Ton 44 kN	HF0503*	6	32	SP3-0503F	-	-	-
		HF0503B *	6	32	SP3-0503B	-	-	-
	10 Ton 89 kN	HF1005	11	43	SP3-1005F	-	-	-
		HF1005B	11	43	SP3-1005B	-	-	-
	20 Ton 178 kN	HF2005	11	51	SP3-2005F	-	-	-
		HF2005B	11	51	SP3-2005B	-	-	-
	30 Ton 267 kN	HF3005	13	59	SP3-3005F	-	-	-
		HF3005B	13	59	SP3-3005B	-	-	-
	50 Ton 445 kN	HF5006	16	67	SP3-5006F	-	-	-
		HF5006B	16	67	SP3-5006B	-	-	-
	75 Ton 667 kN	HF7506	16	80	SP3-7506F	-	-	-
	100 Ton 890 kN	HF10006	16	86	SP3-10006F	-	-	-
	150 Ton 1334 kN	HF15006	16	100	-	SP10-15006F	-	-

\* HF0503 is fitted with CR38M coupler



We see here our combo kit SA15-3002L getting set up to lift a load. This combo kit includes a HL3002 cylinder, PA1500 air pump, CS3814 hose/CH38M coupler set, CF3814 gauge adapter and a GBW1416 pressure gauge.

## Combinations

### Pump and Cylinder Sets



Single Acting Cylinder Type	Cylinder				Hand Pump P350	Hand Pump P1000	Hand Pump P2301	Air Pump PA1500
	Capacity	Model	Stroke (mm)	Collapsed Height (mm)				
Hollow Hole Cylinders 	12 Ton 107 kN	HC1201T	8	60	SP3-1201T	-	-	-
		HC1202	41	120	SP3-1202T	-	-	-
		HC1202XT	41	120	SP3-1202XT	-	-	-
		HC1203XT	76	184	-	SP10-1203XT	-	-
	20 Ton 178 kN	HC2002T	51	162	-	SP10-2002T	-	SA15-2002T
	30 Ton 267 kN	HC3002T	64	179	-	SP10-3002T	-	-
		HC3006T	155	331	-	SP10-3006T	-	SA15-3006T
	60 Ton 534 kN	HC6003T	76	248	-	SP10-6003T	-	SA15-6003T
HC6006T		152	324	-	-	SP23-6006T	SA15-6006T	
100 Ton 890 kN	HC10003T	76	254	-	-	SP23-10003T	SA15-10003T	
Low Profile Cylinders 	10 Ton 89 kN	HL1001	38	88	SP3-1001L	SP10-1001L	-	SA15-1001L
	20 Ton 178 kN	HL2002	44	99	SP3-2002L	SP10-2002L	-	SA15-2002L
	30Ton 267 kN	HL3002	62	117	SP3-3002L	SP10-3002L	-	SA15-3002L
	50 Ton 445 kN	HL5002	60	122	-	SP10-5002L	-	SA15-5002L
	100 Ton 890 kN	HL10002	57	141	-	SP10-10002L	SP23-10002L	SA15-10002L
Lock Nut Cylinders 	55 Ton 489 kN	HLN5502	50	165	-	-	SP23-5502LN	SA15-5502LN
		HLN5504	100	213	-	-	SP23-5504LN	SA15-5504LN
		HLN5506	150	264	-	-	SP23-5506LN	SA15-5506LN
Aluminum Cylinders 	30 Ton 267 kN	HU3002	51	165	SP3-3002U	-	-	SA15-3002U
		HU3006	152	267	-	SP10-3006U	-	SA15-3006U
	50 Ton 445 kN	HU5506	152	267	-	-	SP23-5006U	SA15-5006U

\* HF0503 is fitted with CR38M coupler