



10315 Brighton Lane
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Phone: (713) 667-6691
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P.O. Box 965
Stafford, TX 77497

www.protekspecialty.com
sales@protekspecialty.com

Toll Free: (800) 610-8670

IRRIGATION PRODUCT CATALOG

***LET US BE YOUR PRIMARY
PRIMING SOURCE!***



PROTEK SPECIALTY COMPANY and associated logos and trademarks are service marks of Protek Specialty, Inc.

10315 Brighton Lane
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Protek Specialty Company was started in 1946 with a vision by S. Eric Moore. His vision was to manufacture small specialized equipment that other companies needed in the oil and irrigation fields. Since then we have expanded into other related fields in moving and removing fluids. We continue to work hard at keeping his vision alive and our customers satisfied. We simply want you, our customers and prospects, to be satisfied with our service and our products.

Don E. Moore
President

We designed our product catalog to be the most comprehensive, user-friendly catalog to date. For almost every product we manufacture, you'll find:

- Parts breakdown complete with pictures
- Possible applications
- Instructions for installation
- Instructions for operation
- Maintenance recommendations and tips
- Available special features

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CONTACT & BUSINESS HOURS

HOW YOU CAN CONTACT US

TOLL FREE: (800) 610-8670 TEL: (713) 667-6691

FAX: (713) 667-7867

BILLING ADDRESS: P.O. Box 965, Stafford, TX 77497

SHIPPING ADDRESS: 10315 Brighton Lane, Houston, TX 77031

Or you can visit our website: www.protekspecialty.com

BUSINESS HOURS (C. S. T.)

Office Hours:

Monday - Thursday, 8:00 a.m. – 4:30 p.m.

Shipping/Receiving hours:

Monday - Thursday, 7:00 a.m. – 3:00 p.m.

Telephone orders can be placed during business hours.

Orders can be placed by fax or by email 24 hours a day. If ordering by email, please send your order to:

sales@protekspecialty.com

We accept:



Visa, MasterCard, or ACH are accepted as forms of payment.

****Please note that all credit card orders are subject to a 3% surcharge which will be added to shipping costs.***

Credit Terms can be established by requesting a credit application and is subject to credit approval

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RETURN GOODS POLICY

NON-DEFECTIVE GOODS

1. Customer must call Protek to receive a Return of Goods Authorization (RGA) number.
2. The material must be new or unused and in saleable condition.
3. Proof of the purchase or copy of the invoice must be furnished.
4. The material must be returned freight prepaid - If the return is the result of customer error, the customer is responsible for incurring all shipping costs.
5. A 15% restocking fee will be applied to all returned goods under 90 days. For all returned goods over 90 days, a 25% restocking charge will be applied.
6. Upon receipt and inspection of the material, credit will be issued at the purchase price less the restocking charge.
7. There are NO returns allowed on diaphragms over 90 days old.
8. There are NO returns on nuts and bolts.

DEFECTIVE OR PROBLEM GOODS

1. Send proof of defective goods to sales@protekspecialty.com.
2. Protek will then contact customer immediately to issue a Returned Goods Authorization (RGA). Proof of the purchase or copy of the invoice must be furnished.
3. Protek will issue a replacement at no charge (subject to review and contingent on warranty status). If the item is no longer under warranty, a replacement will be sent at current cost.
4. Upon receipt and inspection of the returned goods, a credit memo will be issued for the purchased price (if applicable).

**** Please ensure to print the RGA Form and include it with your return in order for it to be accepted. ****

GOODS DAMAGED IN TRANSIT

1. If the product is damaged by UPS, Freight Lines, or Parcel Post, the customer must notify Protek Specialty Co. immediately.
2. The package should be left as it was received in the event that a freight company representative is dispatched to inspect the damage.
3. Protek will ship replacement at no charge contingent upon claim approval by the carrier.

**** Customer assumes responsibility for all charges if claim is denied by carrier. ****

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WARRANTY

LIMITED WARRANTY

We warrant each new product, which we manufacture, against defects in material and workmanship under normal use and service. Our obligation under this warranty is on parts which, within a period of 1 year (only 90 days for diaphragms), are to be met to our satisfaction upon examination to be defective in material or workmanship or both.

This warranty does not apply to Damage In Transit, alterations or repairs done outside the factory, or any damage caused by misuse, negligence, the use of *cheater bars*, or accident, nor does it obligate us to assume labor costs in connection with the replacement of parts claimed to be defective.

All parts being claimed as defective must be returned to the factory for inspection, repair, or replacement with pre-paid freight.

We reserve the right to make changes in the design and make improvements upon our products without imposing any obligation upon ourselves to install the same upon our products theretofore manufactured.

Outside purchased equipment and accessories are warranted only to the extent of the original manufacturer's warranty.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to 1 year (only 90 days for diaphragms) from the time of purchase and to the extent permitted by law and all implied warranties are excluded. This is the exclusion remedy and liability for consequential damages under any and all warranties are excluded to the extent exclusion is permitted by law.

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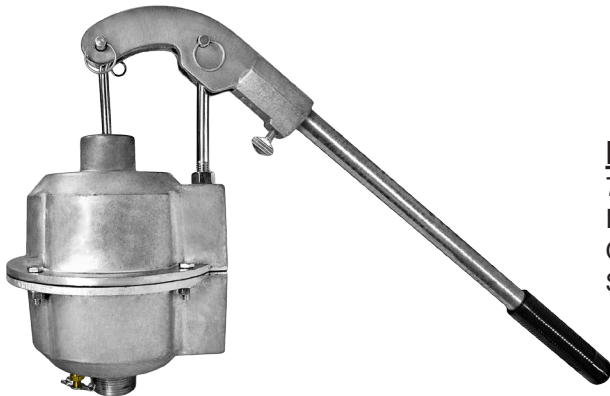
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DP SERIES

HAND DIAPHRAGM PRIMER



DP5

DIMENSIONS

7" x 7" x 13" (Unit, Without Handle)

ID: $\frac{3}{4}$ NPT

OD: 1 $\frac{1}{2}$ NPT

Shipping Wt. - Approx. 12 lbs

DP7

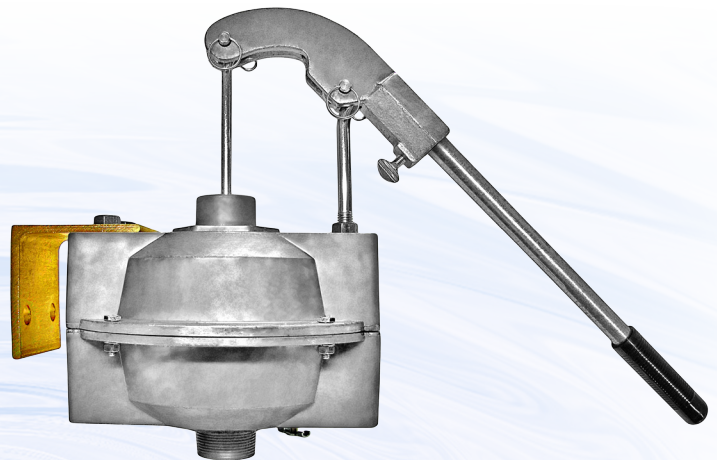
DIMENSIONS

10 $\frac{7}{8}$ " x 9 $\frac{5}{16}$ " x 12 $\frac{1}{4}$ " (Unit, Without Handle)

ID: $\frac{3}{4}$ NPT

OD: 1 $\frac{1}{2}$ NPT

Shipping Wt. - Approx. 21 lbs



DP9

DIMENSIONS

10 $\frac{1}{2}$ " x 11 $\frac{7}{16}$ " x 12 $\frac{1}{2}$ " (Unit, Without Handle)

ID: $\frac{3}{4}$ NPT

OD: 1 $\frac{1}{2}$ NPT

Shipping Wt. - Approx. 19 lbs

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DP **SERIES**
HAND DIAPHRAGM PRIMER

The **HAND DIAPHRAGM PRIMER** is an air pump that creates vacuum in a centrifugal pump priming line and pulls water up into the pump to prime it. The Diaphragm Primer has a flapper check valve in the diaphragm and a disk check valve at the bottom of the unit. Air flows through the bottom check valve on the diaphragm up stroke then through the diaphragm valve on the down stroke. Diaphragm is actuated through a connecting rod eyebolt attached to a fulcrum handle bracket.

FEATURES:

- Lightweight aluminum alloy body
- Easily mounted on most centrifugal pumps
- Tough and durable rubber diaphragm
- Units have a drain valve

INSTALLATION & OPERATION:

1. Attach mounting bracket to centrifugal pump or skid.
2. Use non-collapsible hose or flexible tubing to connect primer suction inlet to pump.
3. Install cut-off valve between the primer suction inlet and pump.
4. Close cut-off valve immediately after priming.
5. Make sure primer drain valve is closed.
6. A cut-off valve should be used at the pump discharge to prevent air from being drawn through the discharge line while priming.

MAINTENANCE:

- Remove any debris under the diaphragm after each use.
- Clear all fluids from inside the unit after each use.

TROUBLESHOOTING:

If the Diaphragm Primer is not priming the pump, check the following:

- Make sure drain valve is closed.
- Inspect check valve for blockage and free movement. Any debris can cause clogging, or prevent the valve from sealing properly.
- Connecting hoses should be straight and clear of debris.
- Check suction side for air leaks.
- Call Protek Technical Support for additional help.

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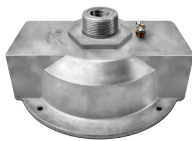

































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DP SERIES

HAND DIAPHRAGM PRIMER

	DP5		DP7		DP9		PARTS
1	D0055		D0087		D0062		Lower Housing
2	D0056		D0088		D0063		Upper Housing
3	D0054 old part#: B183		D0058 old part#: C-106		D0061 old part#: B61		Diaphragm
4					D0003		1 1/2" Locknut
5	D0004		D0004		D0004		Check Valve
6	D0050		D0050		D0051		Fulcrum Eyebolt
7	D0093		D0093		D0093		Handle Bracket
D0093 Includes:					D0347A		Clevis Pin Assembly (2 Req.)
					X0D01		Thumb Screw
8	D0095		D0095		D0095		Handle w/ Grip Assembly
D0095 Includes:					D0094		Grip
					D0094-5		Handle Pipe
9			D0107		D0104		Mounting Bracket
10	D0127-A		D0127-A		D0127-A		Connecting Rod Assembly
11	D0303						Diaphragm Plate (2 Req.)
12	D0340		D0340		D0340		Drain Valve

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DP SERIES

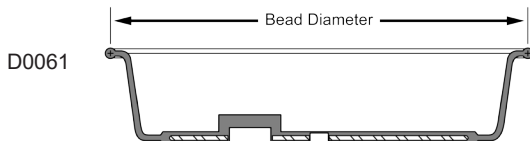
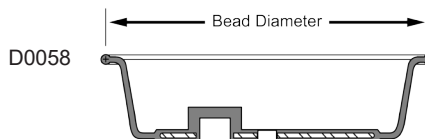
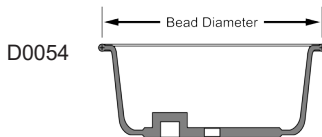
HAND DIAPHRAGM PRIMER

HANDLE w/ BRACKET ASSEMBLY - #D0047

PART#	DESCRIPTION	
D0093	Handle Bracket *Includes: 2 Fast Pins (Part# D0347A) Thumb Screw (Part# X0D01)	
D0095	Handle w/ Grip Assembly *Includes: Handle Pipe (Part# D0094-5) Handle Grip (Part# D0094)	

PRIMER SELECTION CHART

PRIMER	PIPE SIZE
DP5	2", 3", 4"
DP7	4", 5", 6"
DP9	6", 8", or Larger



REPAIR KITS - D05RK, D07RK, & D09RK

PART#	DESCRIPTION
D0004	Check Valve (Disk)
D0054, D0058, D0061	Diaphragm
D0303 (DP5 Only)	Diaphragm Plate (2 Req.)
D0340	Drain Valve
X0D04	1/4-20 x 1" Bolt (4 Req.)
X0D10	3/8" Flat Washer (2 Req.)
X0D11	Jam Nut (2 Req.)
X0D12	1/4-20 Self Locking Nut (4 Req.)

DIAPHRAGM DIMENSIONS

PART#	USED IN	BEAD DIA	OUTSIDE DIA	HEIGHT	ADD'L MARKINGS
D0054	DP5	5 29/64" (5.45)	5 39/64" (5.61)	2 17/64" (2.27)	B-183
D0058	DP7	7 1/2" (7.5)	7 3/4" (7.75)	1 31/32" (1.97)	C-106
D0061	DP9	9 19/32" (9.59)	9 27/32" (9.84)	1 7/16" (1.44)	B-61

PRIMER CAPACITY CHART

PRIMER	# of Strokes to Prime Through 25' of 4" Suction			# of Strokes to Prime Through 25' of 6" Suction			# of Strokes to Prime Through 25' of 8" Suction		
	6.5' Lift	13' Lift	19.5' Lift	6.5' Lift	13' Lift	19.5' Lift	6.5' Lift	13' Lift	19.5' Lift
DP5	10	27	55						
DP7	6	15	32	12	33	65			
DP9	4	9	20	10	23	45	17	37	77

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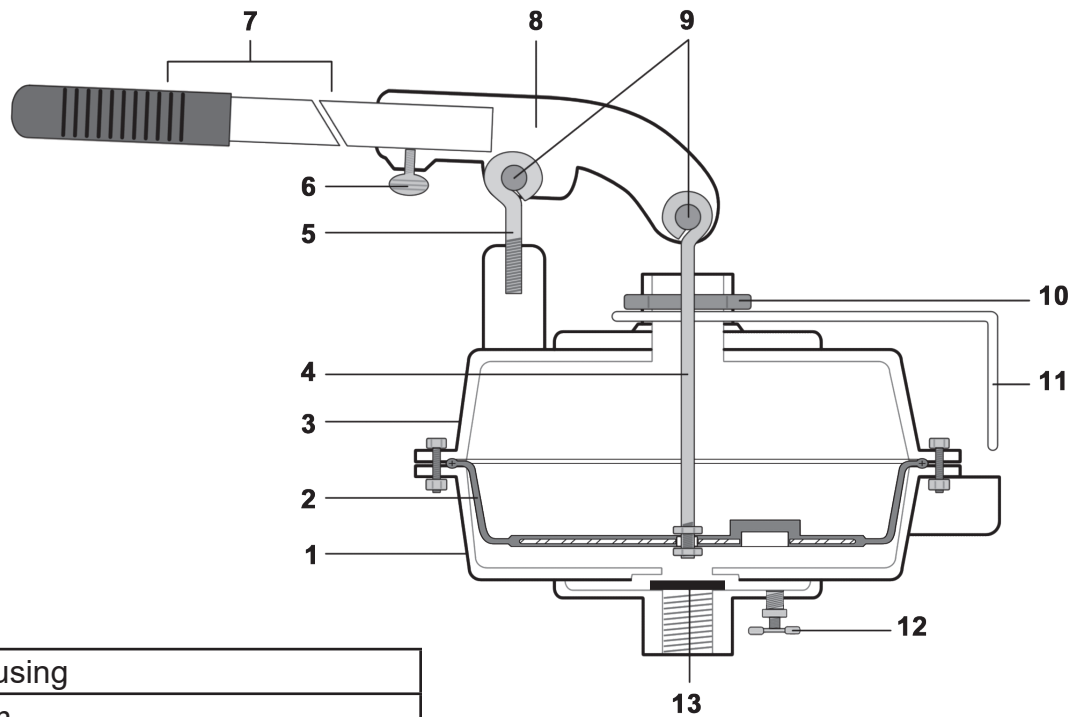
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DP SERIES

HAND DIAPHRAGM PRIMER

DP BREAKDOWN



1	Lower Housing
2	Diaphragm
3	Upper Housing
4	Connecting Rod
5	Fulcrum Eyebolt
6	Thumbscrew
7	Handle with Grip Assembly
8	Fulcrum Bracket
9	Clevis Pin Assemblies
10	Locknut
11	Mounting Bracket
12	Drain Valve
13	Check Valve

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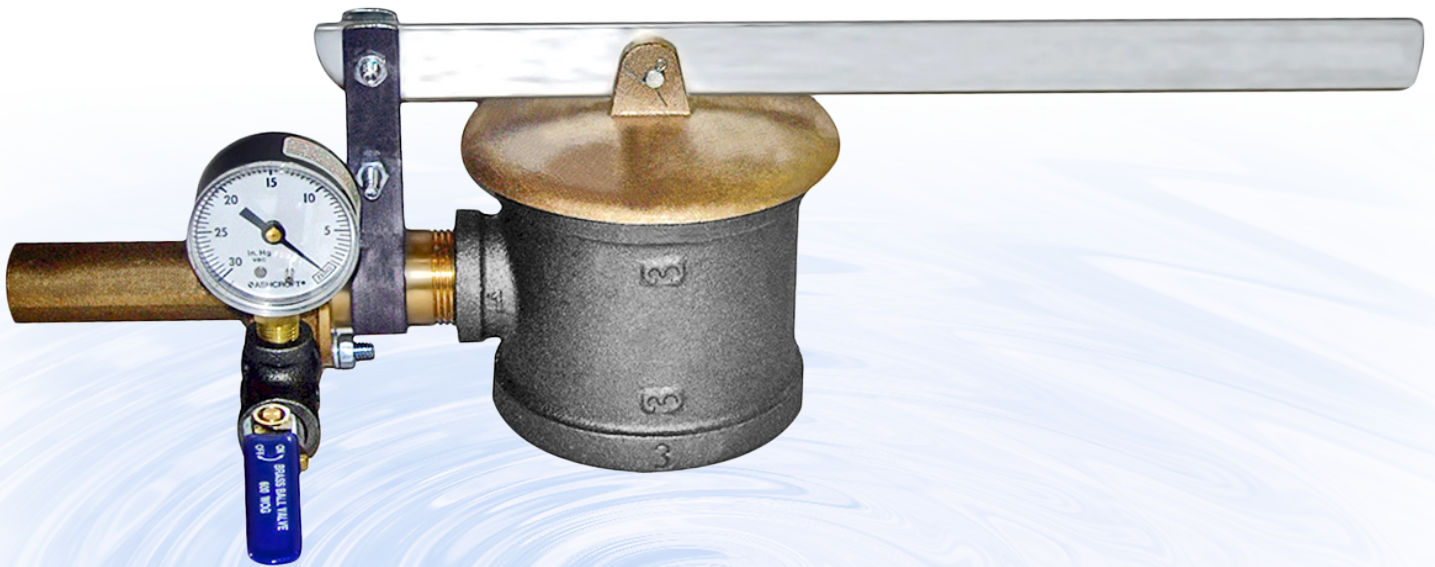
EP SERIES

EXHAUST PRIMER

EP60/90 - 350/500

***Dimensions and Shipping Weights May Vary.**

(Image below is the EP150/225 3 NPT model.)



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EP SERIES

EXHAUST PRIMER

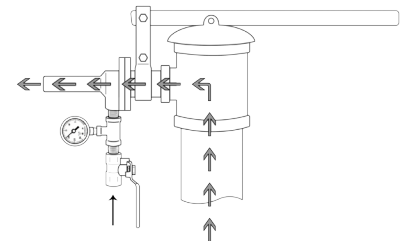
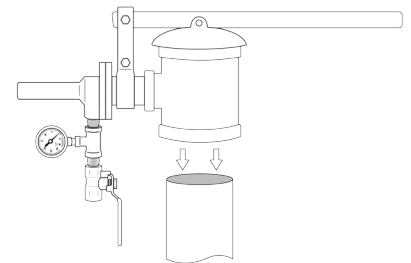
EXHAUST PRIMERS are comprised of an ejector and cast iron adapter that has a cap and handle attached. Unit operates on low engine exhaust pressure. When exhaust valve (adapter cap) is closed, gases are directed through ejector and water is drawn to pump by ejector vacuum.

FEATURES:

- Simple design, no moving parts
- Cast iron adapters come in a variety of sizes, to be mounted on a plain-ended or threaded exhaust
- A vacuum gauge and tee are included.
- Priming can be completed in 10 seconds to two minutes
- Suction lifts of 20 ft. may be obtained under typical conditions
- Units are designed to produce vacuum of 18 to 22 inches of mercury (Hg)

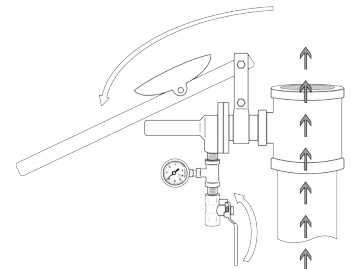
INSTALLATION & OPERATION:

1. Use adapter to attach ejector to engine exhaust stack.
2. Pump discharge must be closed while priming. This can be done by installing a discharge check valve or hand operated gate valve.
3. Install vacuum gauge and priming valve on priming line, between the valve and ejector.
 - Vacuum gauge should indicate priming rate of 18-22 Hg.
 - PSIs should be between 12 and 15 or 1500-2300 RPMs.
4. After priming is completed, lay handle and brass cap 180 degrees from priming position to allow exhaust to escape.



MAINTENANCE:

- Before every use, check the unit for accumulated build-up of dirt or soot from the engine exhaust.
- If vacuum gauge is not working, replace before using the Exhaust Primer.



SAFETY & RECOMMENDATIONS

- Exhaust Primers will not work effectively on single cylinder or two cycle (two strokes) engines.
- Tachometer on engine is useful to determine RPM.
- Priming line air leaks may prevent priming.
- Exhaust Primers can be used on turbo engines, provided RPMs are kept between 1100 and 1200.
- *This information is set forth in general terms for benefit of distributors. Protek advises distributors to provide appropriate instruction to customers.*

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EP SERIES


EXHAUST PRIMER

STANDARD PARTS

PART#	DESCRIPTION	
*Ejector	(See chart on right for part numbers.)	
*Exhaust Valve	(See chart on right for part numbers.)	
*Adapter	(See chart below for part numbers.)	
E0008	3/8 x 3/8 x 1/4" Priming Tee	
E0022	Clamp	
E0323	Handle	
E0333	Vacuum Gauge	
E0334	3/8" FPT Brass Cock Valve	
X0E17	3/8" NPT x 1" Close Nipple	





*Part numbers for the **Ejector**, **Adapter**, and **Exhaust Valve** vary due to the variety of customer needs.

ADAPTERS













PART#	DESCRIPTION	
E0000	1" NPT / 1 1/2" PE Adapter	
E0001	1 1/4" NPT / 1 3/4" PE Adapter	
E0002	1 1/2" NPT / 2" PE Adapter	
E0003	2" NPT / 2 1/2" PE Adapter	
E0004	2 1/2" NPT / 3" PE Adapter	
E0005	3" NPT / 3 1/2" PE Adapter	
E0007	4" NPT / 4 1/2" PE Adapter	

*"PE" stands for "Plain-Ended."


EJECTORS

PART#	DESCRIPTION	
E0090	60/90 Ejector	
E0091	150/225 Ejector	
E0092	250/300 Ejector	
E0093	350/500 Ejector	

EJECTOR PARTS

Size	Venturi	Gasket	Nozzle Tip	Nozzle Base
60/90	 E1379	 E0315		 E1369M
150/225	 E2715	No Gaskets Required	 E2315-A	 E2315
250/300	 E2925	No Gaskets Required	 E2315-B	 E2315
350/500	 E1384	 E0141		 E3940

EXHAUST VALVES

PART#	DESCRIPTION	
E0014	1 3/4" Brass	
E0015	2 5/8" Brass	
E0016	3 1/4" Brass	
E0017	4 1/6" Brass	
E0018	5" Brass	

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HP SERIES

HAND DIAPHRAGM PUMP



HP700

DIMENSIONS

14" x 9" x 4 1/2" (Unit, Without Handle)
Shipping Wt. - Approx. 16 lbs



HP900

DIMENSIONS

17 3/16" x 11 5/8" x 4 5/8" (Unit, Without Handle)
Shipping Wt. - Approx. 23 lbs

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HP SERIES
HAND DIAPHRAGM PUMP

THE **HAND DIAPHRAGM PUMP** is a single-chamber air and liquid pump. The chamber has 2 opening flapper valves for suction and discharge. The diaphragm is actuated by the fulcrum handle bracket, air and/or liquid is pulled into the chamber through the suction valve and expelled through the discharge valve.

FEATURES:

- Lightweight, durable and portable
- Ideal for priming pumps or as portable pump
- Large inlets allow transfer of many types of liquids
- Upon request, unit can be provided with a wooden base to optimize stability for tough primes
- Easily delivers up to 30 GPM
- Maximum leverage design facilitates easier pumping

INSTALLATION & OPERATION:

1. Insert handle into fulcrum, making sure that fulcrum and handle holes align before inserting the fulcrum pin.
2. Place pump on a solid foundation that is as close as possible to the fluid that is going to be pumped. *(This positioning should make the suction line as short and direct as possible.)*
3. Attach suction pipes to the suction inlet and to the discharge outlet.
4. Suction line must be sloped upward in order to provide continual feed into the pump.

SAFETY & RECOMMENDATIONS:

- For longer lasting diaphragms and valves, flush the pump with several gallons of water after each use.
- Replace the diaphragms and valves that show signs of wear, cracking or corrosion.

TROUBLESHOOTING:

If you cannot get the HP to prime, try one of the following:

- Make sure there is no debris left inside where the valves are. Any debris can cause clogging, or prevent the valve from sealing properly.
- Inspect the diaphragm for any tears or cracks.
- Check the line for any blockage or loops. The line must be straight and not twisted in any way.
- Check any strainers for blockage.
- Check all sections of the suction line for air leaks.
- If the eyebolt assembly becomes loose from the diaphragm assembly:
 1. Remove the bolts which connect the retainer ring and pump body so that the diaphragm assembly can be removed.
 2. Remove the diaphragm assembly and tighten the jam nut located on the underside of the diaphragm assembly until the bottom jam nut is even with the bottom of the eyebolt.
 3. Re-assemble the pump by reversing the dis-assembling process. **When re-assembling the pump, have the pump's discharge side to your left, and make sure that the opening of the eyebolt is facing you.*

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HP SERIES

HAND DIAPHRAGM PUMP

	HP700			HP900		DESCRIPTION
1	H0701		H0901			Pump Body
3	H0703		H0903			Retainer Ring
4	H0704		H0904			Fulcrum
<i>H0704 & H0904 Includes:</i>			D0347A			Clevis Pin Assembly
			X0D01			Thumb Screw
5	H0705		H0905			Suction Flange
6	H0706		H0906			Discharge Flange
7	H0707C		H0907C			Diaphragm (Neoprene Diaphragm available upon request.)
8	H0709		H0709			Diaphragm Plate (2 Req.)
9	H0710		H0910			Discharge Valve
10	H0714		H0910			Suction Valve
11	H0902A		H0902A			Fulcrum Pin Assembly
12	H0912		H0912			Handle w/ Grip Assembly
<i>H0904 Includes:</i>			H0712			Grip
			H0911			Handle Pipe
13	X0019		X0019			Eyebolt Assembly

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HP SERIES

HAND DIAPHRAGM PUMP

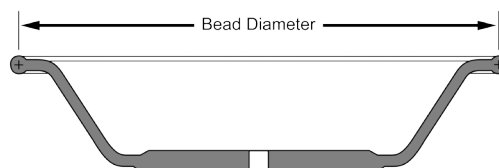
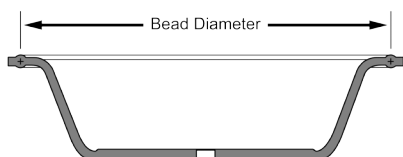
REPAIR KITS

HP7RK	HP9RK	DESCRIPTION
H0707C	H0907C	Diaphragm
H0709	H0709	Diaphragm Plate (2 Req.)
H0710	H0910 (2 Req.)	Discharge Valve (Also Suction Valve for HP900)
H0714		Suction Valve (HP700/HP7RK Only)
H0902A	H0902A	Fulcrum Pin Assembly
D0347A	D0347A	Clevis Pin Assembly
X0019	X0019	Eyebolt w/ Nuts
X0H21	X0H21	$\frac{5}{16}$ -18" x 2" Hex Head Bolt (4 Req.)
X0H31	X0H31	$\frac{5}{16}$ -18" x 1" Hex Head Bolt (8 Req.)
X0H41	X0H41	$\frac{5}{16}$ -18" Nut (4 Req.)

DIAPHRAGM ASSEMBLY - #H0707 & H0907

PART#	DESCRIPTION	
H0707C/ H0907C	Diaphragm	
H0709	Diaphragm Plate (2 Req.)	
X0019	Eyebolt w/ Nuts	

Neoprene Diaphragms for the HP700 are available upon request under the part# **H0707C NEO (See page 17).*



DIAPHRAGM DIMENSIONS

PART#	USED IN	BEAD DIA	OUTSIDE DIA	HEIGHT	ADD'L MARKINGS
H0707C	HP700	7 1/2" (7.5)	8" (8.00)	2 3/32" (2.09)	H0707C
H0907C	HP900	9 1/2" (9.5)	9 27/32" (9.84)	2 5/32" (2.16)	None

PRIMER CAPACITY CHART

MODEL#	INLET/ OUTLET	CAPACITY	MAXIMUM SUCTION LIFT	MAXIMUM DISCHARGE HEAD	APPROX. NET WEIGHT
HP700	1 1/2" NPT	1/2 gal./Stroke	20 ft.	10 ft.	15 lbs.
HP900	2" NPT	1 gal./Stroke	15 ft.	10 ft.	18 lbs.

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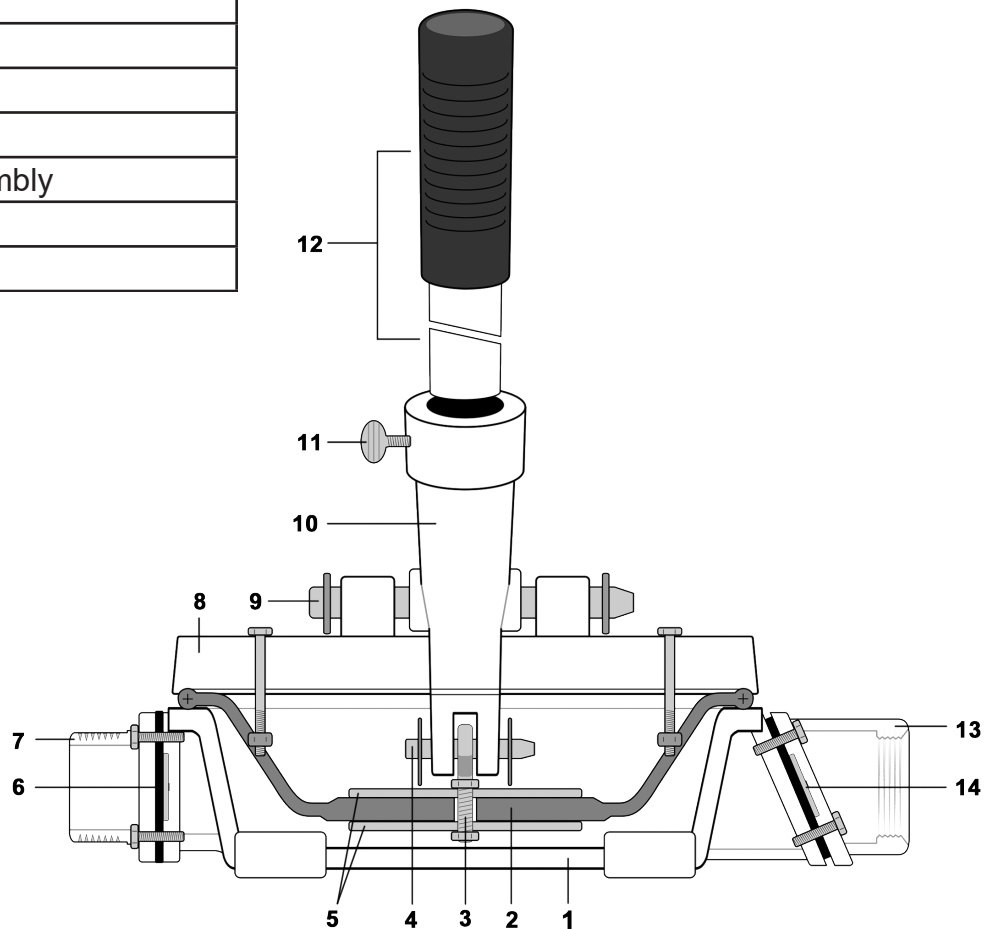


HP SERIES

HAND DIAPHRAGM PUMP

HP BREAKDOWN

1	Body
2	Diaphragm
3	Eyebolt Assembly
4	Clevis Pin Assembly
5	Diaphragm Plates
6	Suction Valve
7	Suction Flange
8	Ring
9	Fulcrum Pin
10	Fulcrum Bracket
11	Thumbscrew
12	Handle with Grip Assembly
13	Discharge Flange
14	Discharge Valve



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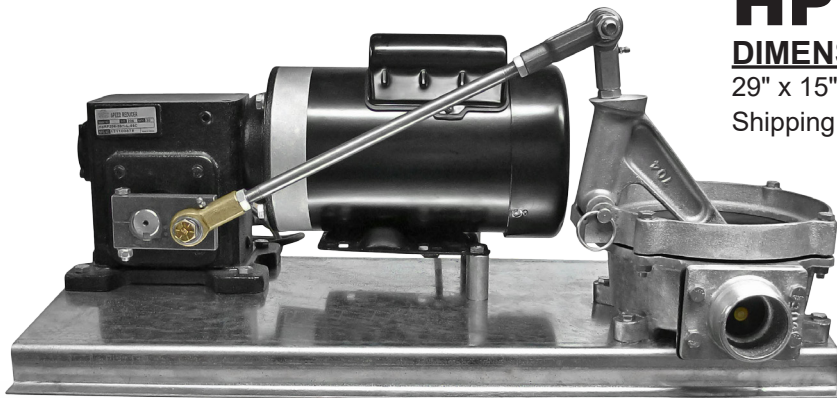
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MDP SERIES

MOTORIZED DIAPHRAGM PUMP



HP700EF AC

DIMENSIONS

29" x 15" x 12"

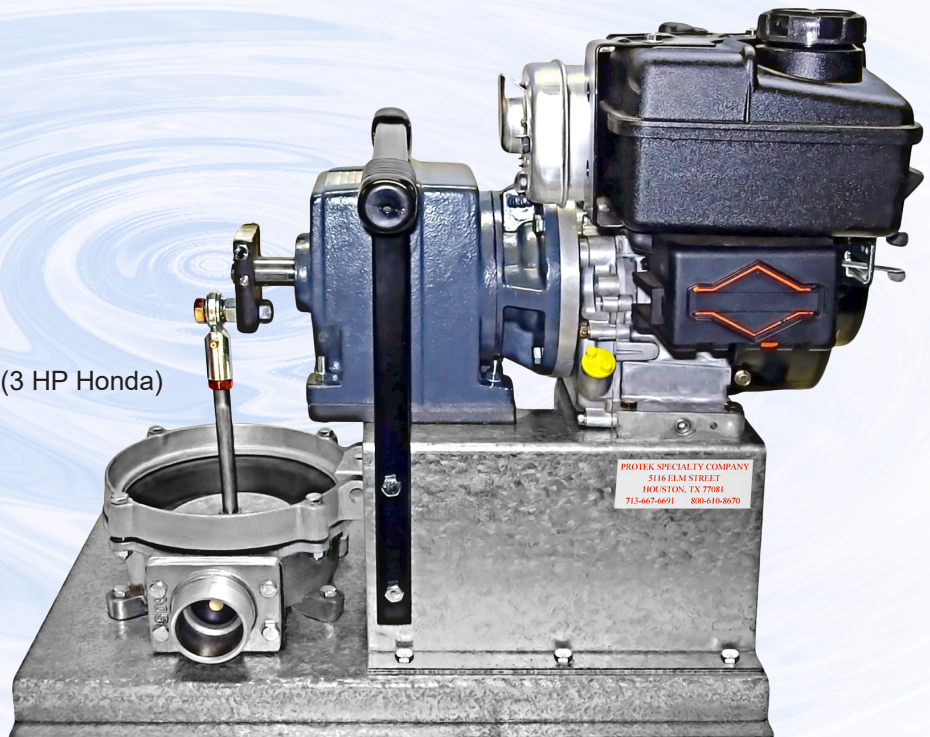
Shipping Wt. - Approx. 102 lbs (1PH)
Approx. 91 lbs (3PH)
Approx. 91 lbs (DC)

HP700G

DIMENSIONS

22" x 17" x 27"

Shipping Wt. - Approx. 108 lbs (3 HP Honda)



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MDP SERIES

MOTORIZED DIAPHRAGM PUMP

THE MOTORIZED DIAPHRAGM PUMP pumps water, brine, mud, sewage, petroleum products and many chemicals. This versatile pump comes in several models: HP700EF, HP700G, and the HP700DC. They are low maintenance units. Electric models are 1 HP, specify: 1 Phase, 3 Phase or 12 volt DC direct.

FEATURES:

- Self-priming Motorized Diaphragm Pumps can run dry without damage to the pump seal
- The natural rubber compound diaphragm is strong and long lasting
- Easy to replace valves
- Steel base for secure mounting
- HP700 E & G units are equipped with a carrying bar
- Units range from 26-32 GPM

INSTALLATION & OPERATION:

1. Determine pump location and, if desired, secure in place ($\frac{5}{16}$ " bolts recommended).
2. Connect suction hose or pipe to suction flange.
3. If desired, connect discharge hose or pipe.
4. Connect power source (electric models).
5. Start pump; may be operated indefinitely.

SAFETY & RECOMMENDATIONS:

- To extend diaphragm and valve life, flush the pump with water after each use.
- If pumping liquid other than water, flush thoroughly with water after use.
- Replace the diaphragm and valves that show signs of wear, cracking or corrosion.
- **For AC models:** make sure electrical connection is properly grounded.
- Keep clear of rotating and reciprocating components.

AVAILABLE MOTORS FOR HP700E & HP700EF

PART#	DESCRIPTION	CURR.
P5004	1 HP, 1 Phase	AC
P5004-1	1 HP, 3 Phase	AC
P5009	1 HP, 12 Volt DC Direct	DC

AVAILABLE MOTORS/ENGINES FOR HP700G

PART#	DESCRIPTION
H0523 HON3	3 HP, Gasoline Engine, Honda

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









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MDP SERIES

MOTORIZED DIAPHRAGM PUMP

	HP700G / HP700E		HP700EF		DESCRIPTION
1	H0374		H0385		Connecting Rod
2	H0375		H0375		1/2" Rod End Bearing
			W0009		5/8" Rod End Bearing
3	H0380		H0384		Crank Disk
5	H0701		H0701		Pump Body
6	H0703		H0703		Retainer Ring
7			H0704EF		Fulcrum
8	H0707C NEO		H0707C		Diaphragm
9	H0709A		H0709		Diaphragm Plate (2. Req.)
10	H0910		H0910		Discharge Valve for Motorized Unit
11	H0714		H0714-SL		Suction Valve
12			H0902A		Fulcrum Pin Assembly
13			D0347A		Clevis Pin Assembly
14	H0905-OS		H0905-OS		Suction Flange
15	H0906		H0906		Discharge Flange
16	*	(No Image Available)	H0730	(No Image Available)	Gear Reducer

*Part numbers for the motor and HP700G gear reducer vary due to the variety of customer needs. See available motors and gear reducers on previous page for part numbers.

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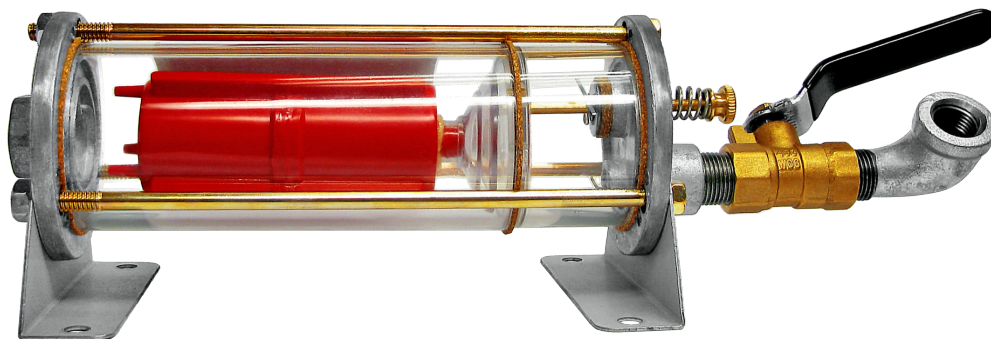
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MP SERIES

MANIFOLD PRIMER



MP1000

DIMENSIONS

7" x 4" x 3 1/2"

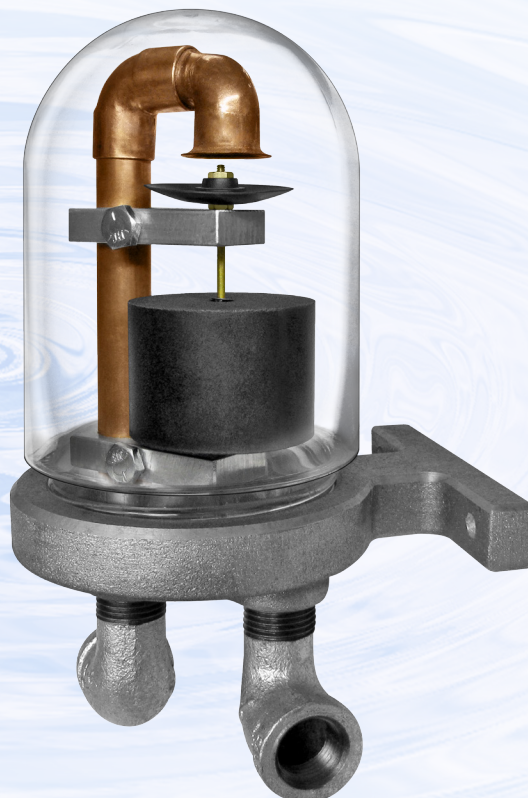
Shipping Wt. - Approx. 3 lbs

MP2000

DIMENSIONS

5" x 4" x 9"

Shipping Wt. - Approx. 3.5 lbs



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MP SERIES

MANIFOLD PRIMER

The **MANIFOLD PRIMER/Water Trap** is a device positioned between a water pump being primed and a source of vacuum pulling the water. It is designed to stop water flow when water reaches it. As a manifold primer it is used when the vacuum source is the intake manifold of a multiple-cylinder gasoline or LP gas engine, or brake booster of a vehicle. As a water trap it is used when the vacuum source is a vacuum pump. The manifold primer/water trap utilizes a mechanical float valve that stops airflow as water enters the unit, thus "trapping" and preventing the water from continuing past it.

MP1000 - Has $\frac{3}{8}$ NPT flow ports, IN at bottom and OUT at top. Mounting requires four $\frac{1}{4}$ " bolts or screws. Water drains from the unit through the priming line.

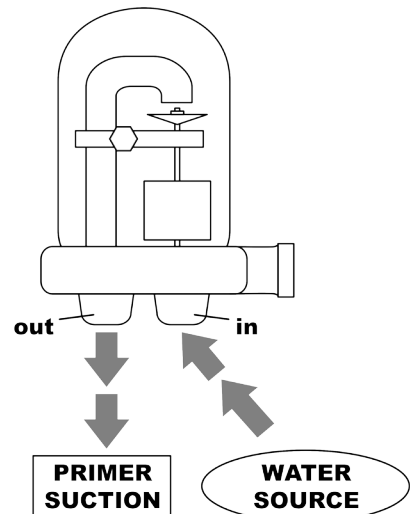
MP2000 - Has $\frac{1}{2}$ NPT IN and OUT flow ports on the bottom. Mounting requires two $\frac{1}{4}$ " bolts or screws. Water drains from the unit through an umbrella valve on the bottom.

FEATURES:

- Can be mounted on any surface
- Use on multiple cylinder on gasoline or LPG engines
- Durable clear housing allows operator to observe its functioning
- Brass ball valve included

INSTALLATION:

1. Mount the unit in position so that the float mechanism moves vertically and is at an elevation above the pump priming port.
2. Use noncollapsible hose to connect the unit OUT port to the vacuum source, for example a tee fitting spliced into the vacuum line.
3. Use noncollapsible hose to connect the unit IN port to the pump priming port, with the provided ball valve in between.



OPERATION:

1. Close the priming line ball valve.
2. Close the pump discharge valve to prevent air being drawn through the discharge.
3. Start the vacuum source.
4. Open the priming line ball valve.
5. When water enters unit, close priming line ball valve. (Water entering unit indicates pump is primed.)
6. Start the pump and open the pump discharge valve.
7. Stop the vacuum source then allow the water to drain from the unit.

**NOTE: If water does not flow from discharge, turn your pump OFF and repeat steps 2 through 5. When pump is discharging properly the priming line may be disconnected from primer and the engine providing vacuum turned OFF.*

MAINTENANCE:

- Chamber housing should be kept clean in order to observe the float valve.
**If necessary, remove the unit and flush with water or a mild soap solution.*
**Do not use any harsh cleanser or chemicals to clean the unit.*
- Use only soap and water to clean plastic parts.
- Do not tighten tie bolts or plastic dome more than necessary to provide seal.
- Keep the priming line ball valve closed when manifold primer/water trap not in use.

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MP SERIES





MANIFOLD PRIMER




MP1000 STANDARD PARTS		
PART#	DESCRIPTION	
M1001	Top Cover Assembly (See Lower Right)	
M1002	Lower Cover	
M1003	Lower Housing	
M1004	Upper Housing	
M1005	Mounting Bracket (2 Req.)	
M1008	Float Assembly (See Bottom Right)	
M1010	Tie Bolt (3 Req.)	
M1012	Cork Gasket (3 Req.)	
M1014A	Angle Valve (See Below)	

MP1000 ANGLE VALVE ASSEMBLY - #M1014A		
PART#	DESCRIPTION	
E0334	3/8" FPT Brass Cock Valve	
X0E17	3/8" NPT Close Nipple	
X0P67	3/8" Street Elbow	

MP1000 TOP COVER BALL ASSEMBLY - #M0051			
PART#	DESCRIPTION		
M1018	Rubber Ball		
X0M62	Cotter Pin		

MP1000 VALVE STEM ASSEMBLY - #M1007			
PART#	DESCRIPTION		
M1011	Cork Seal Washer		
M1019	Stainless Steel Spring		
M1021	Stainless Steel Washer (2 Req.)		
M1022	Plunger Rod		
X0M61	Retainer Clip		
X0M63	1/16 x 1" Cotter Pin		

MP1000 TOP COVER ASSEMBLY - #M1001			
PART#	DESCRIPTION		
M1006	Top Cover Only		
M1007	Valve Stem Assembly (See Above)		
M0051	Ball Assembly (See Top Chart)		

MP1000 FLOAT ASSEMBLY - #M1008			
PART#	DESCRIPTION		
M1009	Suction Cup		
M1013	Float Only		

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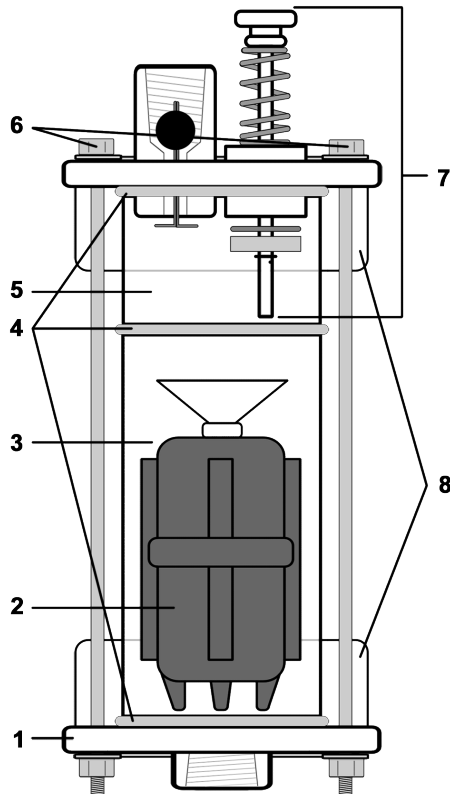
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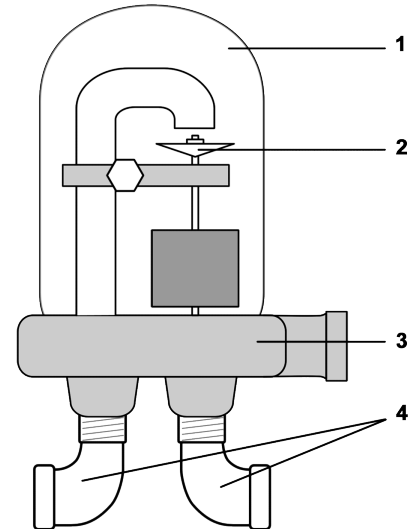
MP SERIES

MANIFOLD PRIMER




MP BREAKDOWN



1	Lower Cover
2	Float Assembly
3	Lower Housing
4	Gaskets
5	Upper Housing
6	Tie Bolts
7	Top Cover Assembly
8	Mounting Brackets



1	Clear Cover Jar
2	Umbrella Valve
3	Mounting Base
4	Angle Valves

MP2000 STANDARD PARTS		
PART#	DESCRIPTION	
M2001	Clear Cover Jar	
M2003	Umbrella Valve	
X0P69	½" Street Elbow (2 Req.)	
X0P72	½" NPT Close Nipple (3 Req.)	

**Please note that any additional parts not seen here are factory install only. Do not attempt to replace any items not seen in the above chart.*

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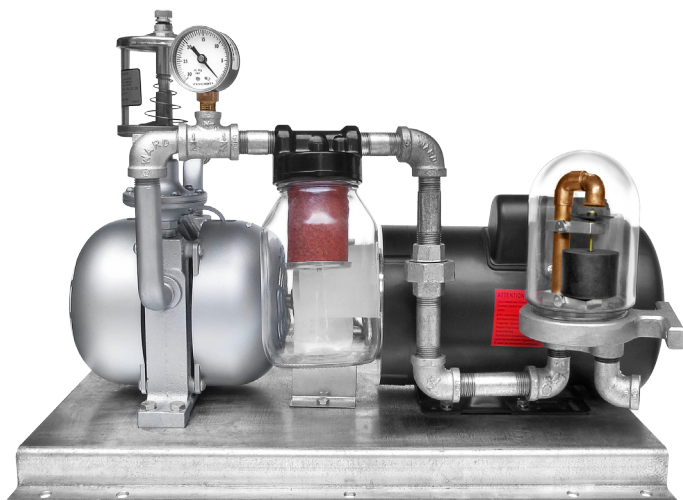
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PP SERIES

POWER PRIMER



PP35AC

DIMENSIONS

23" x 13 7/8" x 11 1/2"

Shipping Wt. - Approx. 96 lbs (1 PH)

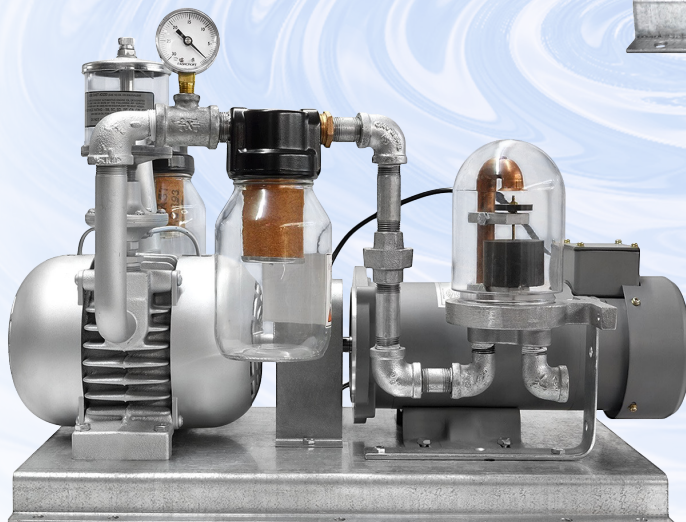
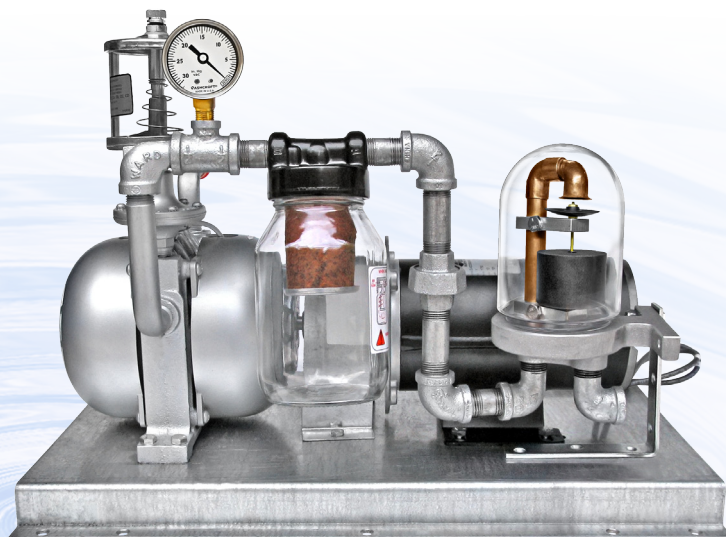
Approx. 91 lbs (3 PH)

PP35DC

DIMENSIONS

23" x 13 7/8" x 11 1/2"

Shipping Wt. - Approx. 84 lbs



PP35DC HC 12V

DIMENSIONS

25" x 13 3/4" x 14"

Shipping Wt. - Approx. 100 lbs

**Gas model Power Primer is
also available upon request.*

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PP **SERIES**
POWER PRIMER

The **Power Primer** is built for fast and efficient priming in pump installations with high suction lifts or extra suction lines. Our motorized line of power primers come in AC, DC or gasoline models and work well for a variety of applications. They are ideal for large, diesel-powered irrigation pumps.

FEATURES:

- Vacuum Pump self-lubricating vanes make maintenance easier
- Steel and cast iron construction handle the heaviest service duties
- Vacuum Pump dual fan guards meet OSHA's safety requirements
- Clear, plastic water trap housing indicates when priming is completed
- AC single phase model has 8' electrical cord with switch
- Solid base provides a sturdy mounting platform
- Standard ½" NPT vacuum connection

COMPARISON

	CFM	PSI (max.)
PP35AC/DC	8.5	25
PP35HC	17	15

** Both the standard Power Primer and the High Capacity have a vacuum capability of 28" HG Max.*

INSTALLATION & OPERATION:

1. Mount the Power Primer securely to a plate on the engine or centrifugal pump.
 - *NOTE: Primer should be high enough to allow water to drain back into pump suction line.*
2. Install oil reservoir, vacuum gauge, filter jar and muffler. See vacuum pump manual, included.
3. Fill oil reservoir with quality SAE 10 or 10W-30 motor oil.
4. Position the unit to provide easy access to lubricators, filters and mufflers.
5. Install hand valve between the power primer and the volute of the pump.
6. To start priming, open priming line valve and turn primer ON.
7. Watch for water to appear in water trap. Then turn pump OFF and CLOSE priming line.

SAFETY & RECOMMENDATIONS:

- Make sure that electrical connection is grounded.
- Do not operate primer without drive guard.

MAINTENANCE:

- The Vacuum Pump requires occasional flushing. Remove the pressure gauge and run ¼ cup of flushing solvent (GAST AH 225 or equivalent) through pump.
- A brief warm-up may be required for pump to produce a vacuum.
- Perform initial inspection after 500 hours.
- Use engine oil with viscosity of SAE10 when refilling oiler.
- Clean or replace air filters as needed.
- Keep water trap clear of debris.
- Replace parts that show evidence of dryness or cracks, esp. for parts such as cork gaskets and rubber gaskets for the oiler.

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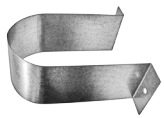



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PP SERIES

POWER PRIMER

STANDARD PARTS


PART#	DESCRIPTION	
E0333	Vacuum Gauge	
MP2000	Water Trap (See MP Series)	
P0003	Vacuum Pump (See Chart on NextPage)	(Picture on Next Page)
P0542A	Coupling Assembly (See Upper Right)	
P0018	Drive Coupling Guard	
P2019	1/2" NPT Pipe Union	
X0P50	1/2" MPT x 3/8" FPT Steel Hex Bushing	
X0P67	3/8" NPT Street Elbow	

DRIVE COUPLING ASSEMBLY - #P0542A


PART#	DESCRIPTION		
P0021	Coupler Body (5/8")		
P0022	Coupler Body (3/4")		
P0023	Coupling Insert		

*Above items also featured on page 28.

ADDITIONAL PARTS FOR PP35AC

PART#	DESCRIPTION	
P0011	8' Power Cord with Switch	

ADDITIONAL PARTS FOR PP35DC

PART#	DESCRIPTION	
P0020	Battery Disconnect Switch Lever, 12V, 100amp	

AVAILABLE MOTORS FOR PP SERIES

PART#	DESCRIPTION	CURR.
P5001	5.5 HP, Gas Engine w/ Gear Red., Honda	N/A
P5004	1 HP, 1 Phase	AC
P5004-1	1 HP, 3 Phase	AC
P5009	1 HP, 12 Volt DC Direct	DC

*Parts for the Vacuum Pump (as a sub-assembly within the Power Primer) are on next page.

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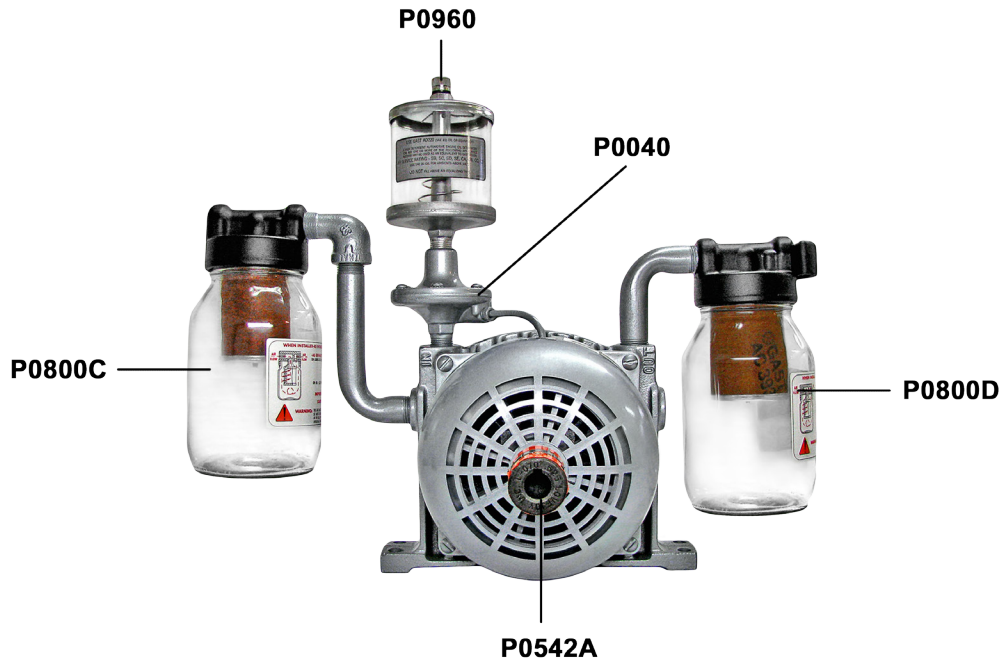
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PP SERIES
POWER PRIMER

VACUUM PUMP BREAKDOWNS



P0960 - OIL RESERVOIR ASSEMBLY

PART#	DESCRIPTION
P0273	Feed Wick
P0967	Oil Cylinder

P0040 - MUFFLER/OIL TRAP ASSEMBLY

PART#	DESCRIPTION
P0031	Fitting (2 Req.)
P0033	Diaphragm
P0339	Tube
P0970	Connector

P0800C - FILTER ASSEMBLY

PART#	DESCRIPTION
P0393	Cartridge
P0401	Glass Jar
P0405	Cover Gasket

P0800D - MUFFLER/OIL TRAP ASSEMBLY

PART#	DESCRIPTION
P0393	Cartridge
P0401	Glass Jar
P0405	Cover Gasket

P0542A - COUPLING ASSEMBLY

PART#	DESCRIPTION
P0021	Coupler Body ($\frac{5}{8}$ ")
P0022	Coupler Body ($\frac{9}{16}$ ")
P0023	Coupling Insert

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PP SERIES
POWER PRIMER

STANDARD PARTS FOR THE VACUUM PUMP		
PART#	DESCRIPTION	
P0031	Fitting	
P0033	Diaphragm	
P0040	Vacuum Lube Assembly	
P0102	Fan Guard	
P0150	Shaft Seal	
P0273	Feed Wick	
P0316	Bearing Spacer	
P0326	Cooling Fan	
P0327	Bearing	
P0335	Vane (4 Req.)	
P0339	Tube	
P0393	Cartridge	
P0401	Glass Jar (2 Req.)	
P0405	Cover Gasket	
P0446	Retainer Ring	
P0542A	Coupling Assembly	
P0567	Body Spacer	
P0800C	Filter Assembly	
P0800D	Muffler/Oil Trap Assembly	
P0960	Oil Reservoir Assembly	
P0967	Oil Cylinder	
P0968	Gasket	
P0970	Connector	

SERVICE KIT - #P0297	
PART#	DESCRIPTION
P0150	Shaft Seal (2 Req.)
P0273	Feed Wick
P0316	Bearing Spacer
P0327	Bearing (3 Req.)
P0335	Vane (4 Req.)
P0393	Cartridge (2 Req.)
P0567	Body Spacer

*Service kit for vacuum pump **P0001** 2065-V2A also available upon request under part number **P0295**. Ask a representative for details.

*Aluminum jars may be offered as an alternative to glass jars under part number **P0132**.

THANK YOU FOR YOUR BUSINESS!



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