PROTEK SPECIALTY CO

10315 Brighton Lane
Houston, TX 77031

P.O. Box 965
Stafford, TX 77497

Phone: (713) 667-6691

www.protekspecialty.com
sales@protekspecialty.com

Toll Free: (800) 610-8670

IRRIGATION PRODUCT CATALOG



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

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PROTEK SPECIALTY CO

TABLE OF CONTENTS

Established in 1946, Protek Specialty Company has remained strong in achieving and maintaining the main vision of its founder, Samuel Eric Moore. That vision was to manufacture small, specialized equipment that other companies needed in the irrigation and oil fields for moving and removing liquids. That vision to manufacture specialized quality pump primers combined with excellent customer service remained the ideals that were carried through his son, Don Eric Moore. As of 2020, Divina Moore has taken the reins to drive Protek to a new phase of growth with new initiatives and creative ideas.

Our goal will always be to continue to work hard at keeping our customers satisfied.

Contact Information & Business Hours 1

Return Goods Policy 2

Limited Warranty 3

Hand Diaphragm Primer (DP5, DP7, & DP9) ..... 4 - 8

Exhaust Primer (EP60/90 - EP350/500) ..... 9 - 12

Hand Diaphragm Pump (HP700 & HP900) ..... 13 - 17

Motorized Diaphragm Pump (HP700E & HP700G) ..... 18 - 20

Manifold Primer (MP1000 & MP2000) ..... 21 - 24

Power Primer (PP35AC, PP35DC, PP35DC HC & PP35GAS) ..... 25 - 29

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CONTACT & BUSINESS HOURS

HOW YOU CAN CONTACT US

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

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 (CST)

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 email 24 hours a day by emailing sales@protekspecialty.com



Visa, MasterCard, Discover, and ACH are accepted as forms of payment.

Please note that all credit card orders are subject to a 5% 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 or email 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. Send photo of damaged package to sales@protekspecialty.com.
4. 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

All our manufactured products have a one-year warranty from the date of purchase (90 days for diaphragms). Factors that will void the warranty include:

- Alterations done outside our factory
- Misuse, negligence, use of cheater bars, or accident.
- Warranty does not apply to Damage in Transit.

Our obligations under this warranty are on units that have met all the proper requirements and have been determined to be defective by one of our team members in material, workmanship, or both.

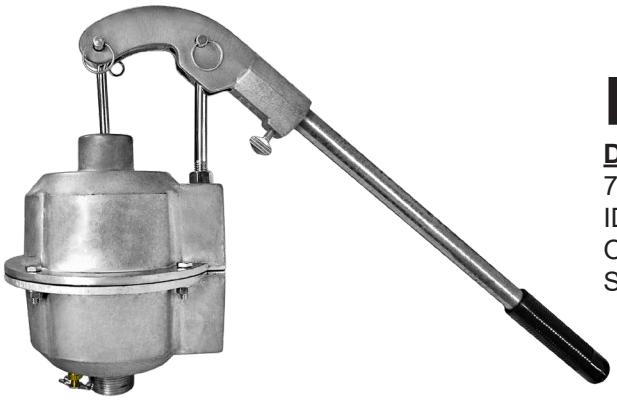
We reserve the right to make changes in the design and make improvements on our products, without obligation to install the same to our products already manufactured.

There is no other express warranty.

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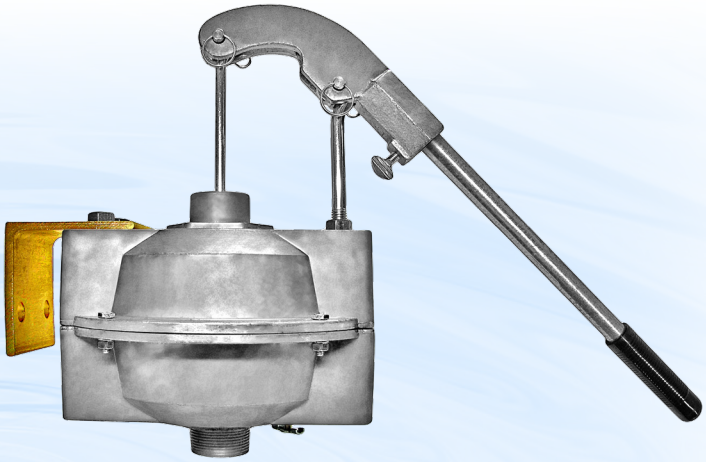
DP SERIES
HAND DIAPHRAGM PRIMER



DP5

DIMENSIONS

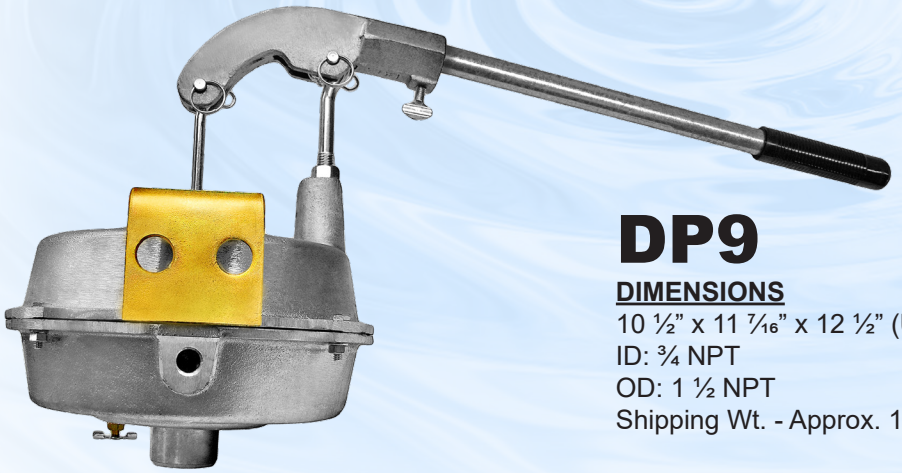
7” x 7” x 13” (Unit, Without Handle)
ID: ¾ NPT
OD: 1 ½ NPT
Shipping Wt. - Approx. 10.6 lbs



DP7

DIMENSIONS

10 ⅞” x 9 ⁵⁄₁₆” x 12 ¼” (Unit, Without Handle)
ID: ¾ NPT
OD: 1 ½ NPT
Shipping Wt. - Approx. 19.1 lbs



DP9

DIMENSIONS

10 ½” x 11 ⁷⁄₁₆” x 12 ½” (Unit, Without Handle)
ID: ¾ NPT
OD: 1 ½ NPT
Shipping Wt. - Approx. 18.45 lbs

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PROTEK SPECIALTY CO

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 primer to centrifugal pump or skid.
   - Use non-collapsible hose or flexible tubing to connect primer suction inlet to pump.
2. Install cut-off valve between the primer suction inlet and pump.
3. Close cut-off valve immediately after priming.
   - Make sure primer drain valve is closed.
   - 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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DP SERIES
HAND DIAPHRAGM PRIMER

	DP5		DP7		DP9		DESCRIPTION
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 ½" 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
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

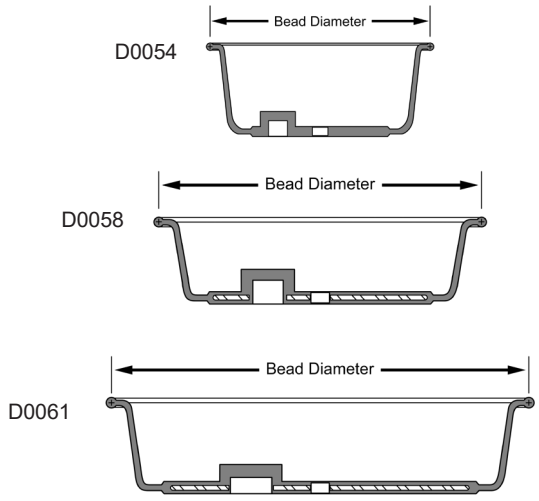
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DP SERIES
HAND DIAPHRAGM PRIMER

HANDLE w/ BRACKET ASSEMBLY - #D0047		
PART #	DESCRIPTION	
D0093	Handle Bracket	
D0095	Handle w/ Grip Assembly	

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	¼-20 x 1” Bolt (4 Req.)
X0D10	⅜” Flat Washer (2 Req.)
X0D11	Jam Nut (2 Req.)
X0D12	¼-20 Self Locking Nut (4 Req.)



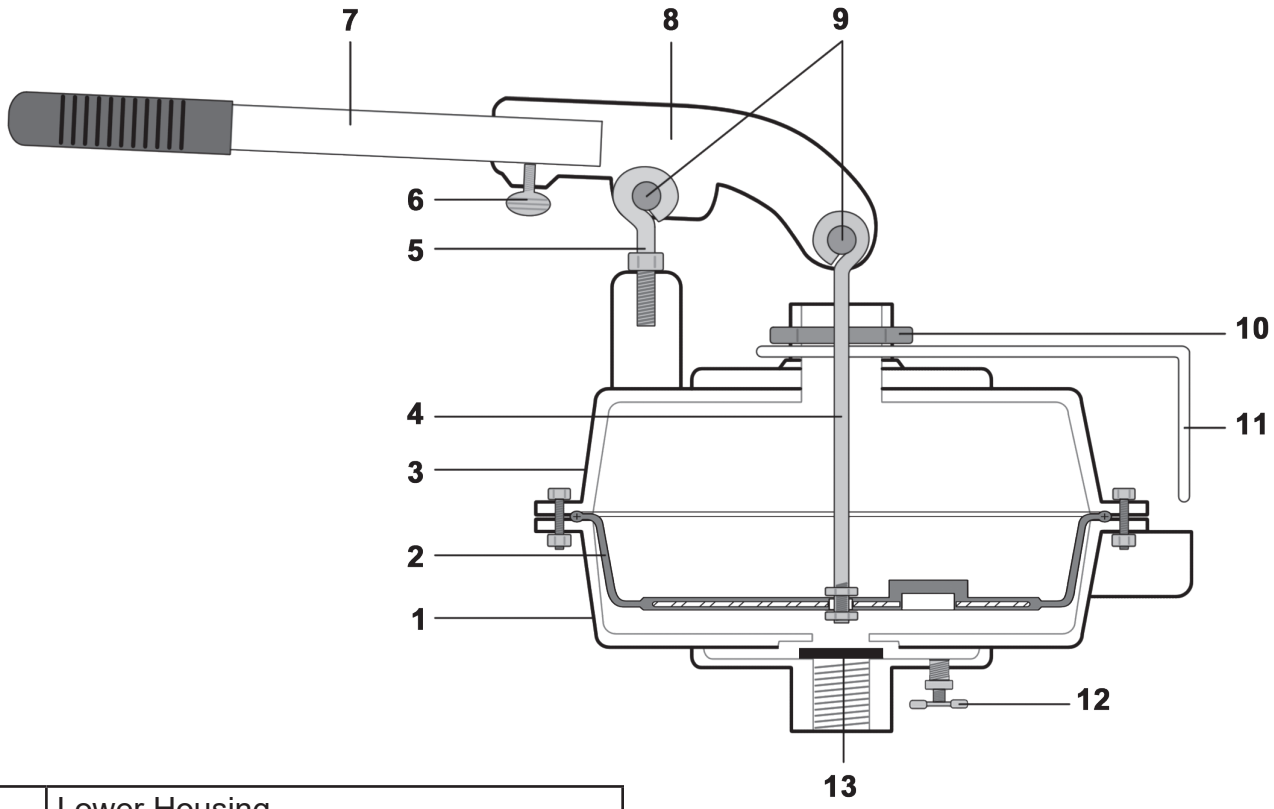
PRIMER SELECTION CHART	
PRIMER	PIPE SIZE
DP5	2”, 3”, 4”
DP7	4”, 5”, 6”
DP9	6”, 8”, or larger

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 ½” (7.5)	7 ¾” (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									
	# 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		
PRIMER	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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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

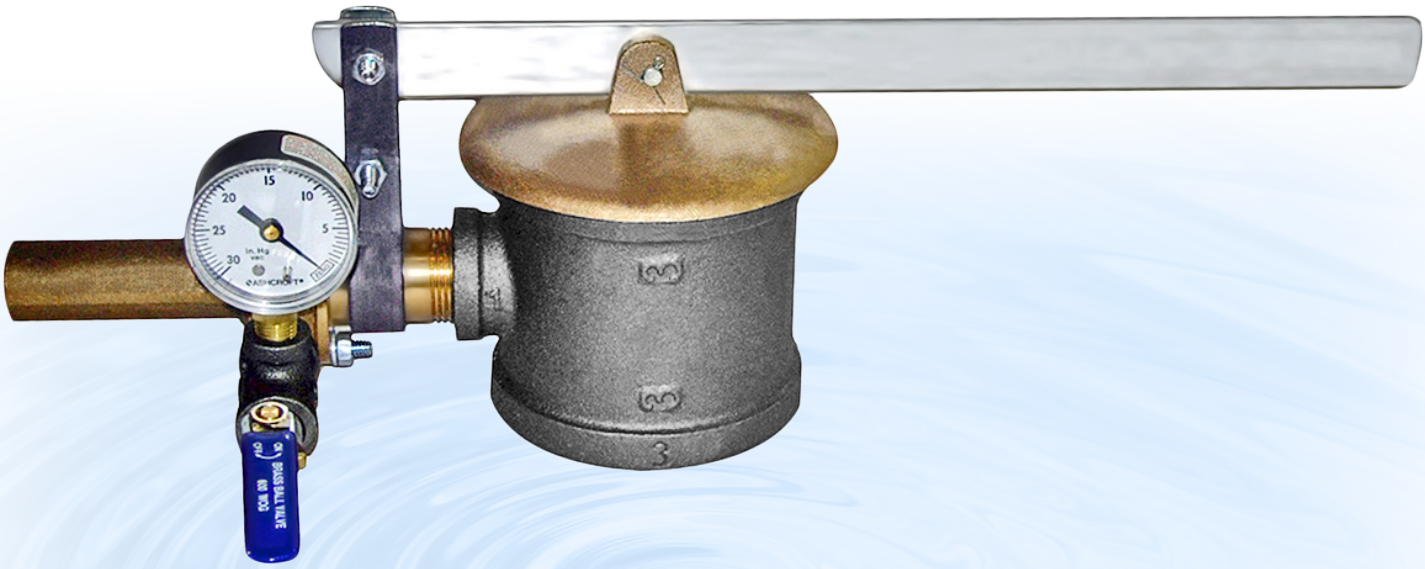
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EP SERIES
EXHAUST PRIMER

EP60/90 - 350/500

*Dimensions and Shipping Weights May Vary.
(Image below is the EP150/225 3 NPT model.)



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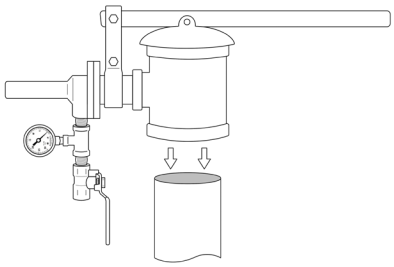
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EP SERIES
EXHAUST PRIMER

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.

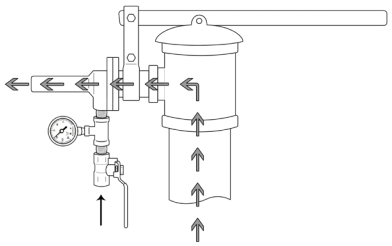
*NOTE: When ordering an Exhaust Primer, the ejector size is determined by the engine displacement in cubic inches, and adapter size is determined by the outer diameter of the exhaust pipe and whether or not the pipe is threaded. E.g., Engine displacement is 250 cubic inches and the diameter of the exhaust pipe is 3 inches, therefore you need an EP250-300 3NPT.

FEATURES:



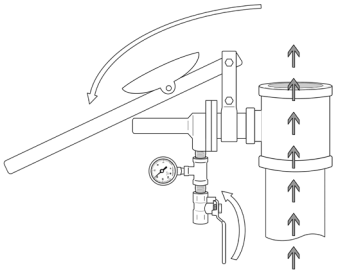
- Simple design, no moving parts
- Cast iron adapters come in a variety of sizes, to be mounted on a plain-ended or threaded exhaust
- A vacuum gauge and tee are included.
- Priming can be completed in 10 seconds to two minutes
- Suction lifts of 20 ft. may be obtained under typical conditions
- Units 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.
   - Pump discharge must be closed while priming. This can be done by installing a discharge check valve or hand operated gate valve.
2. 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.
3. 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.

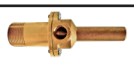
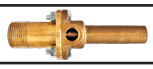
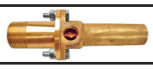
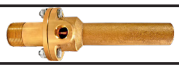
SAFETY & RECOMMENDATIONS

- 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.
- Protek does not recommend the use of EPs on turbo engines.
- Call Protek Technical Support for additional help.

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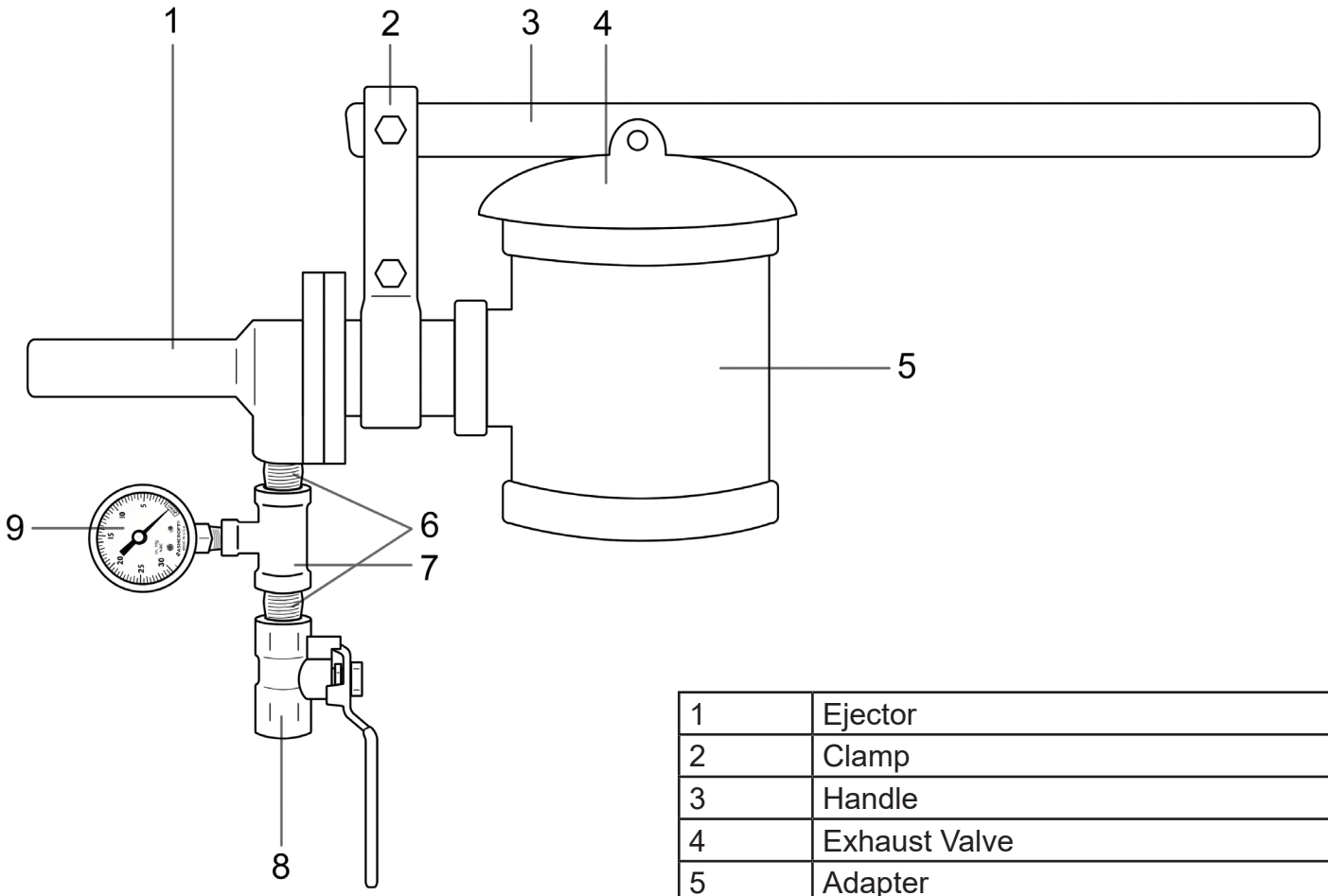
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EP SERIES
EXHAUST PRIMER

	PARTS		PART #	DESCRIPTION
1	Adapter		E0000	1" NPT / 1 ½" PE Adapter
			E0001	1 ¼" NPT / 1 ¾" PE Adapter
			E0002	1 ½" NPT / 2" PE Adapter
			E0003	2" NPT / 2 ½" PE Adapter
			E0004	2 ½" NPT / 3" PE Adapter
			E0005	3" NPT / 3 ½" PE / 4" PE Adapter
			E0007	4" NPT / 4 ½" PE Adapter
2	Exhaust Valve		E0014	1 ¾" Brass
			E0015	2 ⅝" Brass
			E0016	3 ¼" Brass
			E0017	4 1⁄16" Brass
			E0018	5" Brass
3	Ejector		E0090	60/90 Ejector
		***E0090** Includes:*	E1379	60/90 Venturi
			E0315	60/90 Gasket
			E1369M	60/90 Base
			E0091	150/225 Ejector
		***E0091** Includes:*	E2715	150/225 Venturi
			E2315-A	150/225 Nozzle Tip
			E2315	150/300 Nozzle Base
			E0092	250/300 Ejector
		***E0092** Includes:*	E2925	250/300 Venturi
			E2315-B	250/300 Nozzle Tip
			E2315	150/300 Nozzle Base
			E0093	350/500 Ejector
		***E0093** Includes:*	E1384	350/500 Venturi
			E0141	350/500 Gasket
			E3940	350/500 Nozzle Base
4			E0008	⅜ x ⅜ x ¼" Priming Tee
5			E0022	Clamp
6			E0323	Handle
7			E0333	Vacuum Gauge
8			E0334	⅜" FPT Brass Valve
9			X0E17	⅜" NPT x 1" Close Nipple (2 Req.)

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EP BREAKDOWN



1	Ejector
2	Clamp
3	Handle
4	Exhaust Valve
5	Adapter
6	Close Nipple
7	Priming Tee
8	Brass Valve
9	Vacuum Gauge

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HP SERIES
HAND DIAPHRAGM PUMP





HP700

DIMENSIONS

14" x 9" x 4 ½" (Unit, Without Handle)
Inlet/Outlet: 1 ½ NPT
Shipping Wt. - Approx. 16 lbs

HP900

DIMENSIONS

17 3⁄16" x 11 5⁄8" x 4 5⁄8" (Unit, Without Handle)
Inlet/Outlet: 2" NPT
Shipping Wt. - Approx. 23 lbs

**Wooden base option available upon request.*

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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:

- 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.
   - 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 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
	H0704 & ***H0904*** *Includes:*		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
13	X0019		X0019		Eyebolt Assembly

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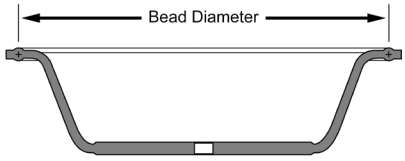
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HP SERIES
HAND DIAPHRAGM PUMP

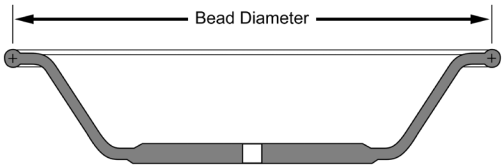
REPAIR KITS		
HP7RK	**HP9RK**	**DESCRIPTION**
H0707C	H0907C	Diaphragm
H0709	H0709	Diaphragm Plate (2 Req.)
H0710	H0910 (2 Req.)	Discharge Valve
H0714		Suction Valve
H0902A	H0902A	Fulcrum Pin Assembly
D0347A	D0347A	Clevis Pin Assembly
X0019	X0019	Eyebolt w/ Nuts
X0H21	X0H21	5/16-18" x 2" Hex Head Bolt (4 Req.)
X0H31	X0H31	5/16-18" x 1" Hex Head Bolt (8 Req.)
X0H41	X0H41	5/16-18" Nut (4 Req.)

DIAPHRAGM ASSEMBLY - #H0707A & H0907A		
PART#	**DESCRIPTION**	
H0707C/ H0907C	Diaphragm	
H0709	Diaphragm Plate (2 Req.)	
X0019	Eyebolt w/ Nuts	

H0707C



H0907C



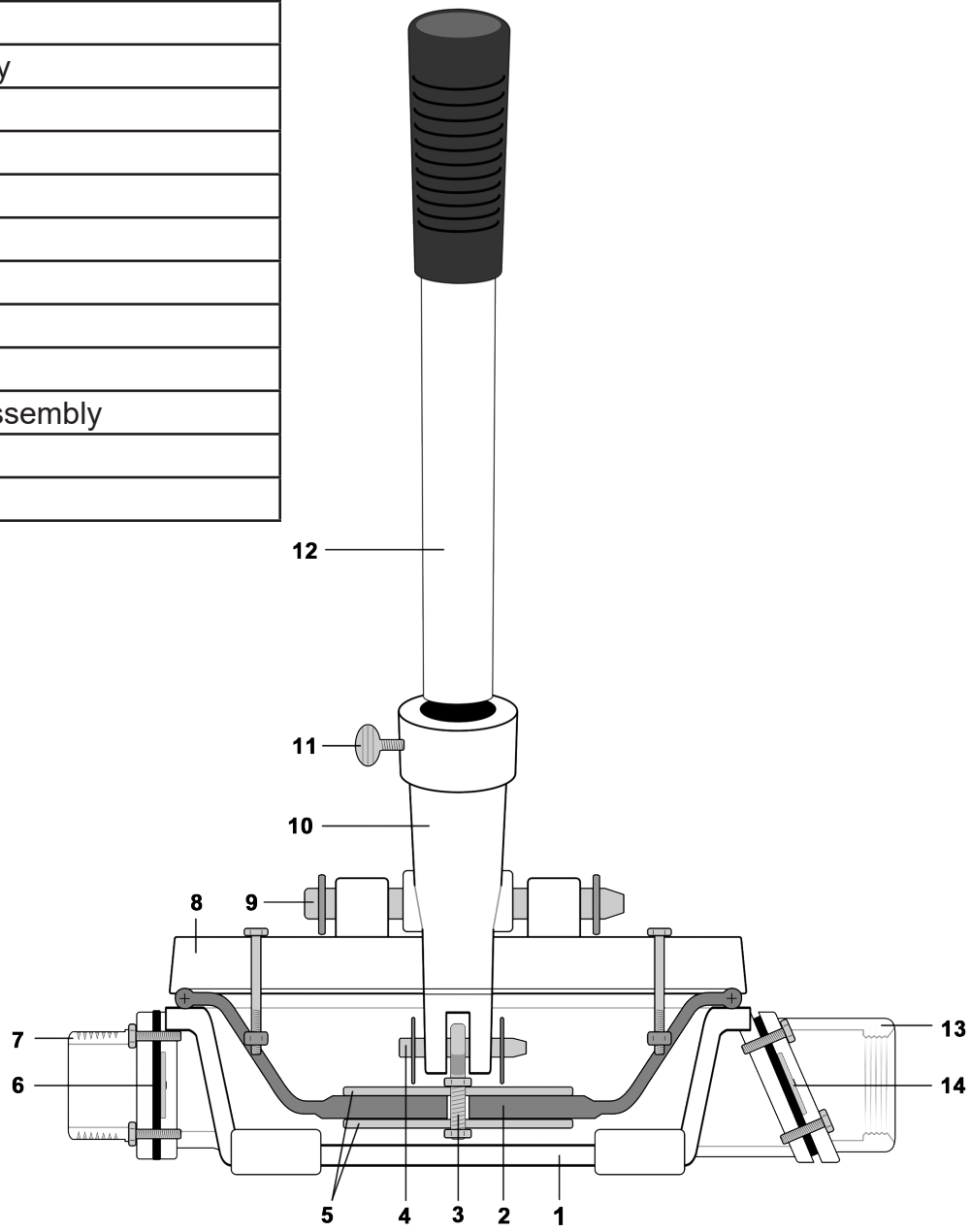
DIAPHRAGM DIMENSIONS					
PART #	**USED IN**	**BEAD DIA**	**OUTSIDE DIA**	**HEIGHT**	**ADD'L MARKINGS**
H0707C	HP700	7 ½" (7.5)	8" (8.00)	2 3/32" (2.09)	H0707C
H0907C	HP900	9 ½" (9.5)	9 27/32" (9.84)	2 5/32" (2.16)	None

PRIMER CAPACITY CHART					
MODEL #	**INLET/ OUTLET**	**CAPACITY**	**MAXIMUM SUCTION LIFT**	**MAXIMUM DISCHARGE HEAD**	**APPROX. NET WEIGHT**
HP700	1 ½" NPT	½ 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 BREAKDOWN

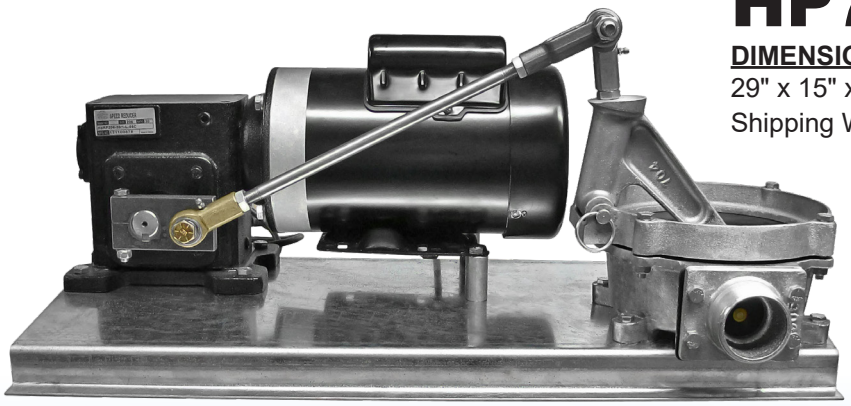
1	Body
2	Diaphragm
3	Eyebolt Assembly
4	Clevis Pin Assembly
5	Diaphragm Plates
6	Suction Valve
7	Suction Flange
8	Ring
9	Fulcrum Pin
10	Fulcrum Bracket
11	Thumbscrew
12	Handle with Grip Assembly
13	Discharge Flange
14	Discharge Valve



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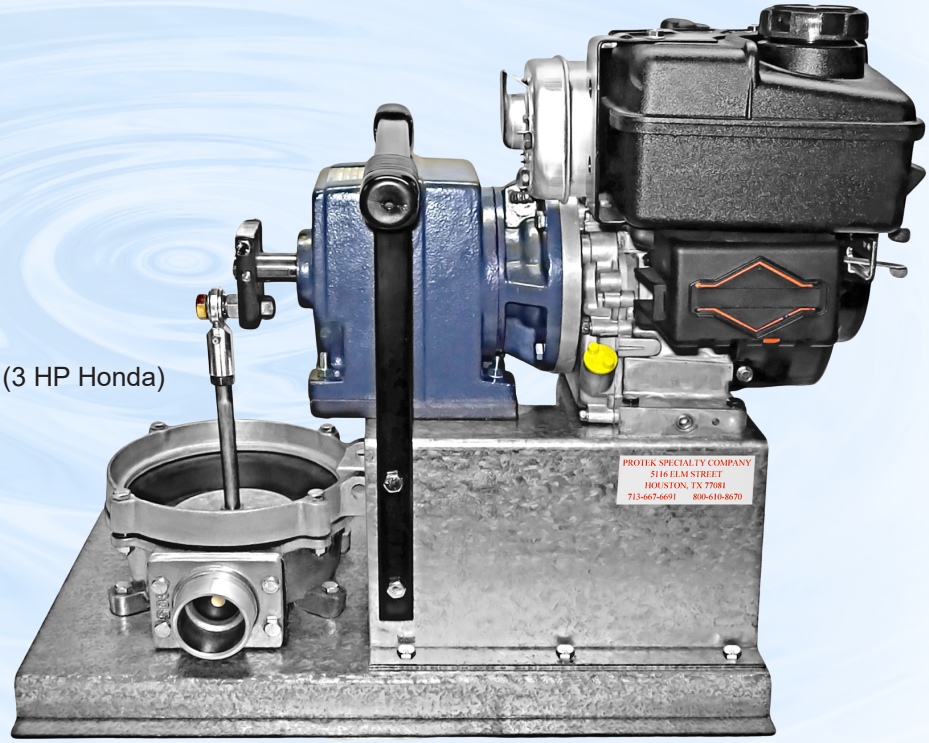
PROTEK SPECIALTY CO

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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PROTEK SPECIALTY CO

MDP SERIES
MOTORIZED DIAPHRAGM PUMP

The MOTORIZED DIAPHRAGM PUMP pumps water, brine, mud, sewage, petroleum products and many chemicals. They are low maintenance units.

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 (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, 1750 RPM	DC

AVAILABLE MOTORS/ENGINES FOR HP700G	
PART#	**DESCRIPTION**
H0523	3.5 HP, Gasoline Engine, Briggs & Stratton

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MDP SERIES
MOTORIZED DIAPHRAGM PUMP

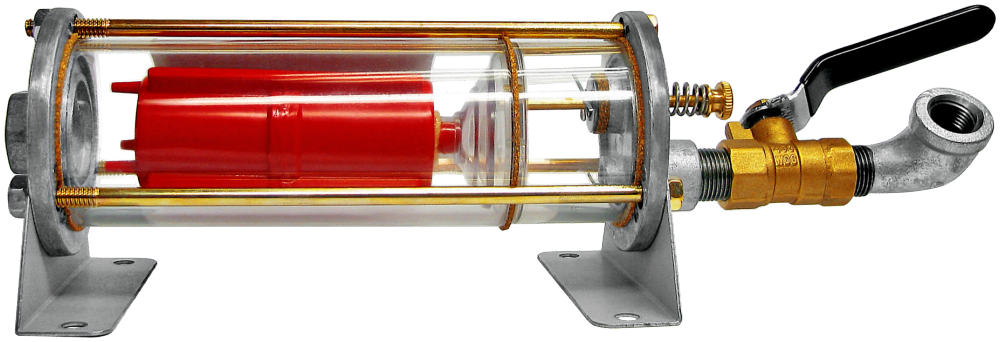
	HP700G / HP700E		HP700EF		DESCRIPTION
1	H0374		H0385		Connecting Rod
2	H0375		H0375		½" Rod End Bearing
4	H0380		H0384		Crank Disk
5			H0388	(No Image Available)	Diaphragm Mounting Block
6	H0701		H0701		Pump Body
7	H0703		H0703		Retainer Ring
8			H0704EF		Fulcrum
9	H0707C NEO		H0707C		Diaphragm
10	H0709A		H0709		Diaphragm Plate (2. Req.)
11	H0910		H0910		Discharge Valve
12	H0714		H0714-SL		Suction Valve
13			H0902		Fulcrum Pin
14			D0347A		Clevis Pin Assembly
15	H0905-OS				Suction Flange
16	H0906		H0906		Discharge Flange
17	*	(No Image Available)	H0730	(No Image Available)	Gear Reducer
18	P0015	(No Image Available)	H0732	(No Image Available)	Base

*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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MP SERIES
MANIFOLD PRIMER

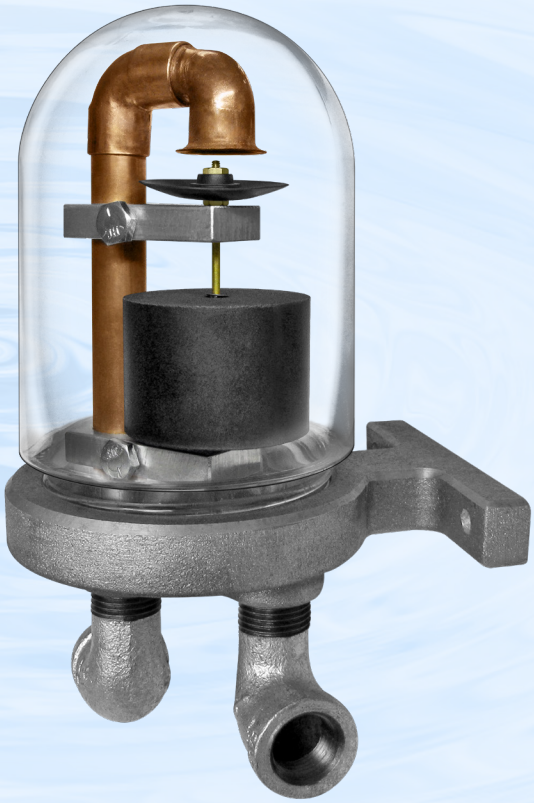


MP1000

DIMENSIONS
7" x 4" x 3 ½"
Inlet/Outlet: ⅜" NPT
Shipping Wt. - Approx. 3 lbs

MP2000

DIMENSIONS
5" x 4" x 9"
Inlet/Outlet: ½" NPT
Shipping Wt. - Approx. 3.5 lbs



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MP SERIES
MANIFOLD PRIMER

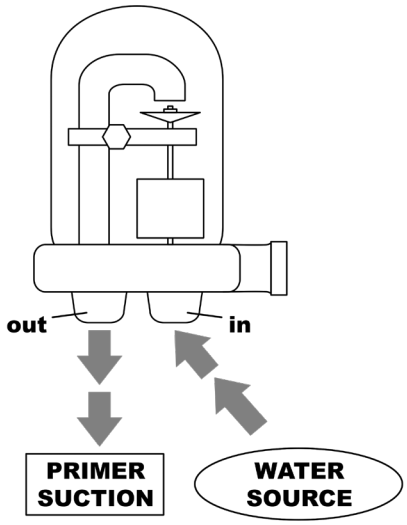
The MANIFOLD PRIMER/Water Trap is a device positioned between a water pump being primed and a source of vacuum pulling the water. It is designed to stop water flow when water reaches it. As a manifold primer it is used when the vacuum source is the intake manifold of a multiple-cylinder gasoline or LP 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 ⅜ NPT flow ports, IN at bottom and OUT at top. Mounting requires four ¼" bolts or screws. Water drains from the unit through the priming line.

MP2000 - Has ½ NPT IN and OUT flow ports on the bottom. Mounting requires two ¼" 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.*

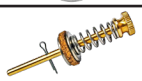
MAINTENANCE:

- 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.*
- Use only soap and water to clean plastic parts.
  **<u>Do not</u> use any harsh cleanser or chemicals to clean the unit.*
- 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 is not in use.

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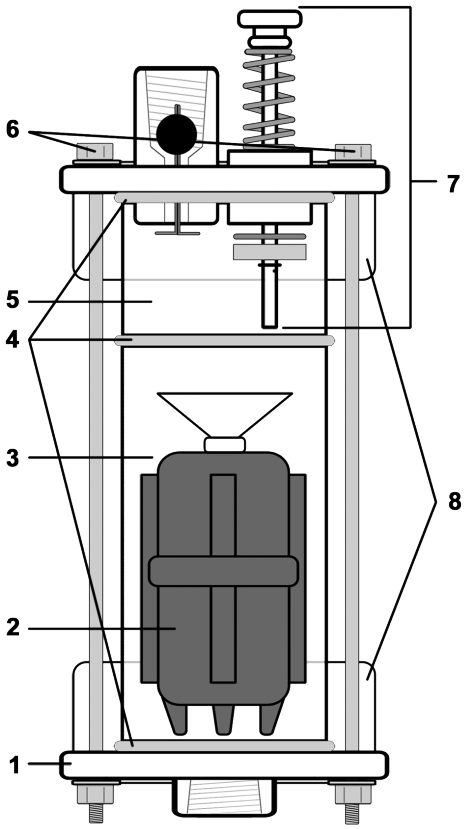
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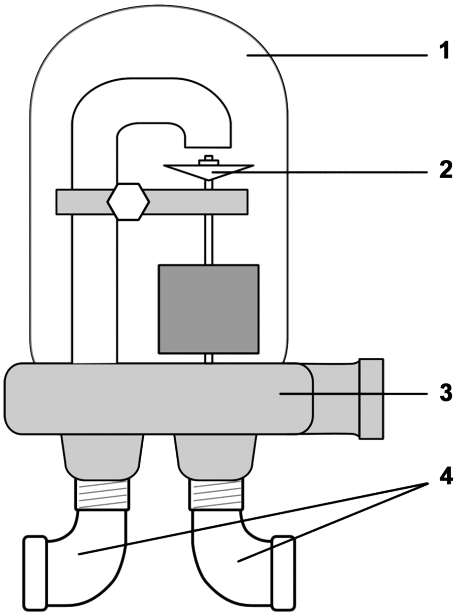
MP SERIES
MANIFOLD PRIMER

	MP1000			MP2000		DESCRIPTION
1	M1001					Top Cover Assembly
	M1001 *Includes:*	M1006				
		M1007				
		M0051				
2	M1003			M2001		Clear Housing
	M1004					
3	M1002			M2013		Lower Base
4	M1005					Mounting Bracket (2 Req.)
5	M1008					Float Assembly
6	M1010					Tie Bolt (3 Req.)
7	M1012 (3 Req.)			M2002		Gasket
8	X0E17			X0P72 (3 Req.)		Close Nipple
10	X0P67			X0P69		Street Elbow
11	E0334			M2012		Brass Valve

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MP BREAKDOWN





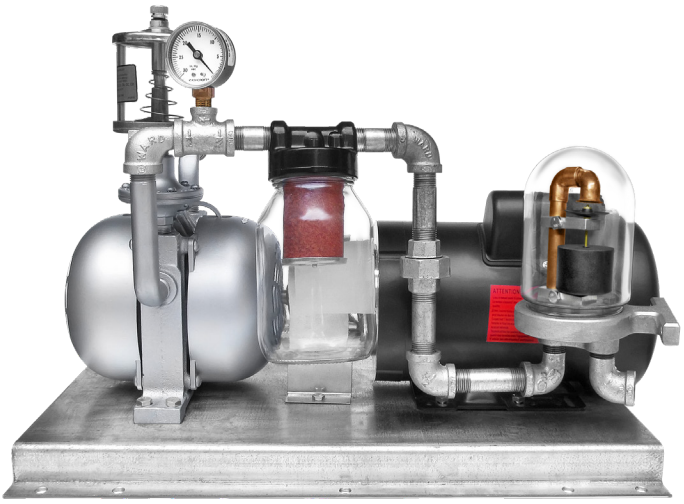
1	Lower Cover
2	Float Assembly
3	Lower Housing
4	Gaskets
5	Upper Housing
6	Tie Bolts
7	Top Cover Assembly
8	Mounting Brackets

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

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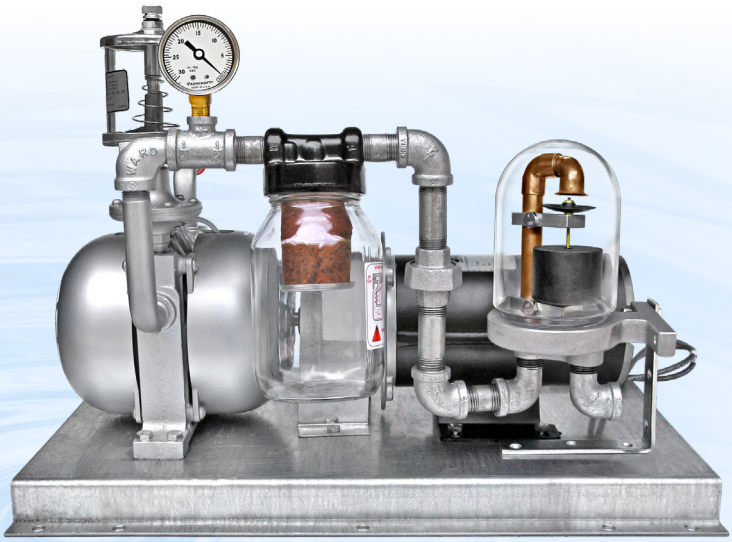
PP SERIES
POWER PRIMER



PP35AC

DIMENSIONS

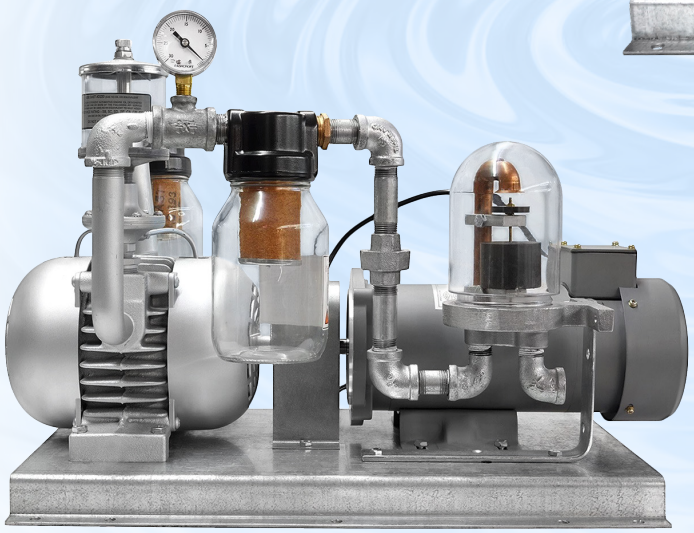
23" x 13 ⅞" x 11 ½"
Shipping Wt. - Approx. 96 lbs (1 PH)
Approx. 91 lbs (3 PH)



PP35DC

DIMENSIONS

23" x 13 ⅞" x 11 ½"
Shipping Wt. - Approx. 84 lbs



PP35DC HC 12V

DIMENSIONS

25" x 13 ¾" x 14"
Shipping Wt. - Approx. 100 lbs

**Gas model Power Primer is also available upon request, using part #PP35GS.*

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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
- 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/GAS	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.*
   - *Position the unit to provide easy access to lubricators, filters and mufflers.*
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. Install hand valve between the power primer and the volute of the pump.
5. To start priming, open priming line valve and turn primer ON.
6. 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.

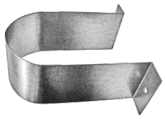
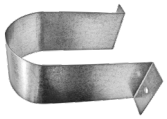
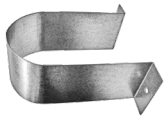
MAINTENANCE:

- 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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PP SERIES
POWER PRIMER

	PP35AC		PP35DC		PP35 HC 12V		DESCRIPTION
1	E0333		E0333		E0333		Vacuum Gauge
2	MP2000		MP2000		MP2000		Water Trap (See MP Series)
3	P0003		P0003		P0001		Vacuum Pump
4	P0011						8’ Power Cord with Switch
5	P0018		P0018		P0018		Drive Coupling Guard
6			P0020		P0020		Battery Disconnect Switch Lever, 12V, 100amp
7	P2019		P2019		P2019		½” NPT Pipe Union
8	X0P67		X0P67		X0P67		⅜” NPT Street Elbow

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, 1750 RPM	DC

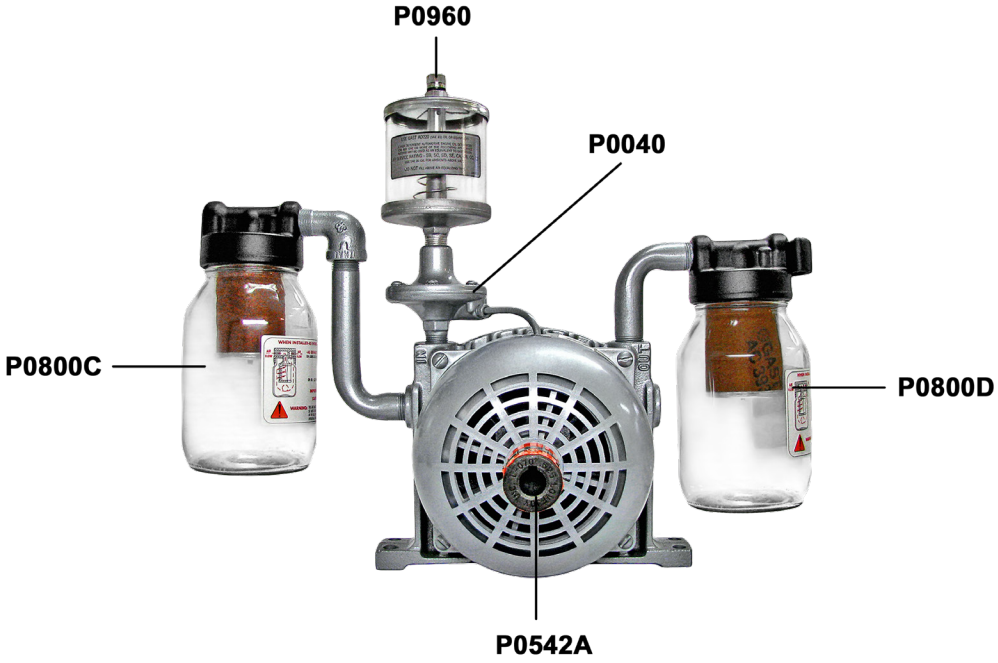
**Parts for the Vacuum Pump (as a sub-assembly within the Power Primer) are on next page.*

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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

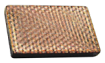
P0800C - FILTER ASSEMBLY	
PART #	**DESCRIPTION**
P0393	Cartridge
P0401	Glass Jar
P0405	Cover Gasket

P0800D - MUFFLER/OIL TRAP ASSEMBLY	
PART #	**DESCRIPTION**
P0393	Cartridge
P0401	Glass Jar
P0405	Cover Gasket

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PP SERIES
POWER PRIMER

STANDARD PARTS FOR THE VACUUM PUMP		
PART #	**DESCRIPTION**	
P0150	Shaft Seal	
P0273	Feed Wick	
P0316	Bearing Spacer	
P0326	Cooling Fan	
P0327	Bearing	
P0335	Vane (4 Req.)	
P0446	Retainer Ring	
P0542A	Coupling Assembly	
P0567	Body Spacer	
P0968	Gasket	

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.

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