

10315 Brighton Lane  
Houston, TX 77031

P.O. Box 965  
Stafford, TX 77497

PH: (800) 610-8670  
(713) 667-6691

sales@protekspecialty.com  
www.protekspecialty.com



# HP SERIES

## HAND DIAPHRAGM PUMP



## HP700

### DIMENSIONS

14" x 9" x 4 1/2" (Unit, Without Handle)

Inlet/Outlet: 1 1/2" 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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## 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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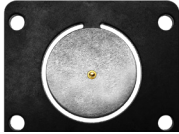
















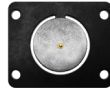

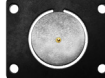






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	HP700			HP900		DESCRIPTION
1	H0701		H0901			Pump Body
3	H0703		H0903			Retainer Ring
4	H0704		H0904			Fulcrum
<i>H0704 &amp; H0904 Includes:</i>			D0347A			Clevis Pin Assembly
			X0D01			Thumb Screw
5	H0705		H0905			Suction Flange
6	H0706		H0906			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
13	X0019		X0019			Eyebolt Assembly



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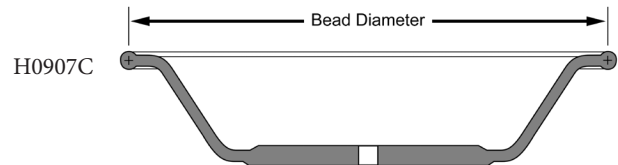
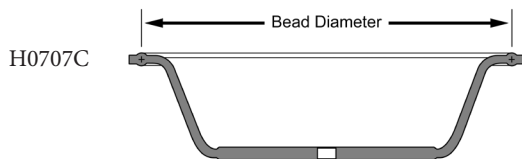
## HAND DIAPHRAGM PUMP

### 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	



### 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

