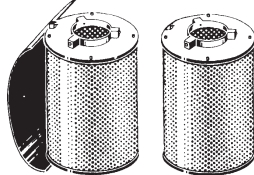


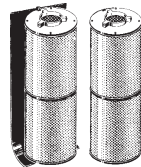
**SINGLE STRAINER,  
JUMBO**



	Height x Width				
With slide:	6"	18" x 13 5/8"	8-0750	17.0	<b>331.00</b>
	8"	18" x 13 5/8"	8-0751	18.0	<b>331.00</b>
	10"	18" x 13 5/8"	8-0752	18.5	<b>331.00</b>
Without slide:	6"	18" x 13 5/8"	8-0760	14.0	<b>277.00</b>
	8"	18" x 13 5/8"	8-0761	13.0	<b>277.00</b>
	10"	18" x 13 5/8"	8-0762	13.5	<b>277.00</b>

-1/4" Standard Round Holes (also available in 1/8", 1/2", 3/4" or 1" @ additional cost)  
 -.080 Standard Wall Thickness (also available in .125) @ additional cost  
 -Easily and quickly attaches to the end of the aluminum suction pipe by drilling three holes in the tubing and inserting bolts.

**DOUBLE STRAINER,  
JUMBO**



	Height x Width				
With slide:	6"	36" x 13 5/8"	8-0770	38.0	<b>556.00</b>
	8"	36" x 13 5/8"	8-0771	38.0	<b>556.00</b>
	10"	36" x 13 5/8"	8-0772	40.0	<b>556.00</b>
Without slide:	6"	36" x 13 5/8"	8-0780	28.0	<b>434.00</b>
	8"	36" x 13 5/8"	8-0781	28.0	<b>434.00</b>
	10"	36" x 13 5/8"	8-0782	28.0	<b>434.00</b>

-1/4" Standard Round Holes (also available in 1/8", 1/2", 3/4" or 1" @ additional cost)  
 -.080 Standard Wall Thickness (also available in .125) @ additional cost  
 -Easily and quickly attaches to the end of the aluminum suction pipe by drilling three holes in the tubing and inserting bolts.

**LIQUID MANURE  
STRAINER**



4"	18"long x 14"wide	6-8095	20.00	<b>336.00</b>
6"	18"long x 14"wide	6-8096	20.00	<b>336.00</b>
8"	36"long x 14"wide	6-8097	20.00	<b>497.00</b>

-\* 1" holes, .125" thick screen w/corrosion resistant and stainless steel bolts & nuts.  
 -Easily and quickly attaches to the end of the aluminum suction pipe by drilling three holes in the tubing and inserting bolts.

**SELF-CLEANING SCREEN  
(PERFECTION)**



		Hole Size	Ship			
4"	325 gpm	.093	UPS	8-0785	13.0	<b>495.00</b>
6"	625 gpm	.093	UPS	8-0786	24.0	<b>1075.00</b>
8"	1150 gpm	.093	UPS	8-0787	34.0	<b>1346.00</b>
10"	1500 gpm	.093	CC	8-0788	43.0	<b>1865.00</b>

IMPORTANT: A partially closed gate valve on the discharge side of pump is required to provide adequate working pressure to the strainer while filling the irrigation line.

**SELF-CLEANING SCREEN  
(PLUM CREEK)**



			Hole Size	Ship			
6"	Plum Creek	560 gpm	.075	UPS	6-9795	29.0	<b>1450.00</b>
10"	Plum Creek	1000 gpm	.075	UPS	6-9796	53.0	<b>1815.00</b>
12"	Plum Creek	1700 gpm	.075	UPS	6-9797	65.0	<b>2140.00</b>

Protects pumps and water systems from organics and debris in surface water.

**SELF-CLEANING SCREEN  
(RIVERSCREEN)**



			Hole Size	Ship			NET Price
4"	4' pontoon		.097	CC	9-5428	200.0	<b>1950.00</b>
6"	6' pontoon		.097	CC	9-5429	225.0	<b>2650.00</b>
8"	8' pontoon		.097	CC	9-5430	250.0	<b>2850.00</b>
10"	10' pontoon		.097	CC	9-5431	275.0	<b>3050.00</b>
12"	10' pontoon		.097	CC	9-5438	240.0	<b>3450.00</b>

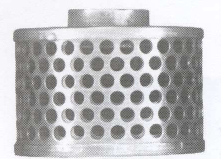
Floating screen. Requires only 4" of water. Must have current to operate, otherwise order the optional power drive. 8 mesh (.097") stainless steel screen. All SS Screws & Bolts

Power Drive	UPS	9-5432	<b>160.00</b>
Foot Valve		9-6849	<b>418.00</b>


Pumps & Accessories

# FOOT VALVE PARTS





Product	Description	Part Number	Weight	List Price
<b>STRAINER, ROUND HOLE</b> 	1-1/2"	6-9590		10.00
	2"	6-9591		11.00
	2-1/2"	6-9592		12.00
	3"	6-9593		15.00
	4"	6-9594		18.00
	6"	6-9595		38.00
	8"	6-9596		65.00

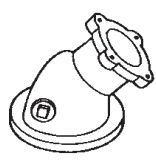
-Female pipe thread connection.


<b>STRAINER, SQUARE HOLE</b> 	1-1/2"	6-9597		10.00
	2"	6-9598		11.00
	2-1/2"	6-9599		12.00
	3"	6-9600		15.00
	4"	6-9601		18.00
	6"	6-9602		43.00

-Female pipe thread connection.

<b>FLANGE CASTING</b> 	4"	8-0818	--	14.50
	6"	8-0819	--	25.50
	8"	8-0820	--	40.00
	10"	8-0821	--	59.00

<b>RING GASKET</b> 	4"	6-6484	--	3.00
	6"	6-6486	--	4.30
	8"	6-6488	--	10.70
	10"	6-6480	--	15.00

<b>STANDARD FV BODY CASTING</b> 	4" x 45°	8-0824	--	119.00
	6" x 45°	8-0825	--	185.00
	8" x 45°	8-0826	--	289.00
	10" x 45°	8-0827	--	470.00

<b>VALVE FLAPPER COVER</b> 	4"	8-0828	--	8.00
	6"	8-0829	--	12.00
	8"	8-0830	--	20.00
	10"	8-0831	--	34.00

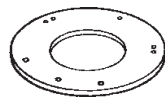
<b>VALVE FLAPPER AND GASKET</b> 	Rubber	2"	8-0713	--	10.00
		3"	8-0714	--	13.50
		4"	8-0715	--	16.00
		5"	8-0716	--	19.00
		6"	8-0717	--	32.00
		8"	8-0718	--	50.00
		10"	8-0725	--	102.00

**VALVE FLAPPER WEIGHT**



4"	8-0832	--	5.00
6"	8-0833	--	8.00
8"	8-0834	--	12.00
10"	8-0835	--	20.00

**VALVE SEAT RING CASTING**



4"	8-0837	--	27.00
6"	8-0838	--	49.00
8"	8-0839	--	54.00
10"	8-0840	--	96.00

**FOOT VALVE SCREEN**



6-1/2" high x 7-1/4" wide	4"	8-0842	--	14.50
8-3/8" high x 9-1/4" wide	6"	8-0843	--	23.50
13-1/2" high x 11-1/4" wide	8"	8-0844	--	45.00
21" high x 13-5/8" wide	10"	8-0845	--	66.00

1/4" Standard Round Holes (also available in 1/8", 1/2", 3/4" or 1")  
0.080 Standard Wall Thickness (also available in .125)

**BOTTOM DISC CASTING**



4"	8-0846	--	22.00
6"	8-0847	--	43.00
8"	8-0848	--	52.00
10"	8-0849	--	91.00

**BOLT/NUT/WASHER**

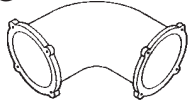
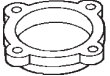








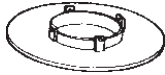







Screen Bolt/Nut	4" (3 req.)	1/4"x8"	8-0850	2.00
	6" (3 req.)	1/4"x10"	8-0851	2.50
	8" (3 req.)	1/4"x15-3/8"	8-0852	3.10
	10" (4 req.)	1/4"x22-7/8"	8-0853	4.50
Flange	2"-8" (4 req.)	5/16"x2-1/4"	8-0822	1.40
	10" (4 req.)	5/16"x2-1/2"	8-0823	1.70
Seat Body Bot/Nut	4" (5 req.)	1/4"x1-1/2"	8-0841	1.00
	6" (8 req.)	1/4"x1-1/2"		
	8" (11 req.)	1/4"x1-1/2"		
	10" (12 req.)	1/4"x1-1/2"		
Cover Weight		1/4"x3/4"	8-0836	1.00

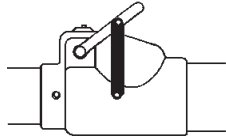
Pumps & Accessories

# SUCTION FITTINGS & PARTS

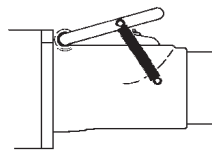


Product	Description	Part Number	Weight	List Price	
<b>ELBOW PARTS</b>					
<b>ELBOW CASTING</b> 	4" x 90°	8-0810	--	108.00	
	6" x 90°	8-0811	--	158.00	
	8" x 90°	8-0812	--	233.00	
	10" x 90°	8-0813	--	399.00	
	4" x 45°	8-0814	--	95.00	
	6" x 45°	8-0815	--	151.00	
	8" x 45°	8-0816	--	210.00	
	10" x 45°	8-0817	--	375.00	
<b>FLANGE CASTING</b>					
	4"	8-0818	--	14.50	
	6"	8-0819	--	25.50	
	8"	8-0820	--	40.00	
	10"	8-0821	--	59.00	
<b>RING GASKET</b>					
	4"	6-6484	--	3.00	
	6"	6-6486	--	4.30	
	8"	6-6488	--	10.70	
	10"	6-6480	--	15.00	
<b>FLANGE BOLT/NUT/WASHER</b>					
	For 4", 6", 8" (4 req)	5/16"x2-1/4"	8-0822	--	1.00
	For 10" (4 req.)	5/16"x2-1/2"	8-0823	--	1.10
<b>INTAKE STRAINER PARTS</b>					
Ring Casting 	<b>Ring Casting</b>	6"	8-0736	--	27.00
		8"	8-0737	--	44.50
		10"	8-0738	--	49.00
Bottom Disc Casting 	<b>Bottom Disc Casting</b>	6"	8-0739	--	21.50
		8"	8-0740	--	43.00
		10"	8-0741	--	52.00
Strainer Screen 	<b>Strainer Screen</b>	6" 10-5/8" h x 7-1/4" w	8-0742	--	23.00
		8" 16-1/2" h x 9-1/4" w	8-0743	--	34.00
		10" 23" h x 11-1/2" w	8-0744	--	76.00
Strainer Bolt & Nut 	<b>Strainer Bolt &amp; Nut</b>	6" 12" long	8-0745	--	3.10
		8" 18" long	8-0746	--	3.80
		10" 25-1/4" long	8-0747	--	4.80
Slide 	<b>Slide</b>	6"	8-0748	--	20.00
		8"	8-0749	--	36.00
		10"	8-0753	--	62.00
Ring Bolt 	<b>Ring Bolt</b>		8-0754	--	1.00
<b>JUMBO STRAINER PARTS</b>					
<b>JUMBO STRAINER RING</b> 	4"	8-0859	--	110.00	
	6"	8-0860	--	110.00	
	8"	8-0861	--	110.00	
	10"	8-0862	--	110.00	
<b>JUMBO STRAINER SCREEN</b> 	18" h x 13-5/8" wide	8-0854	--	90.00	
<b>JUMBO BOTTOM DISC CASTING</b> 		8-0858	--	91.00	
<b>JUMBO SLIDE</b> 	For Single Jumbo Strainer	8-0855	--	52.00	
	For Double Jumbo Strainer	8-0856	--	102.00	
<b>JUMBO D-RING</b> 		8-0863	--	96.00	
<b>JUMBO STRAINER BOLT</b> 	4 required 1/4" x 19-3/8" long	8-0857	--	5.00	

**DISCHARGE PRIMING VALVE**



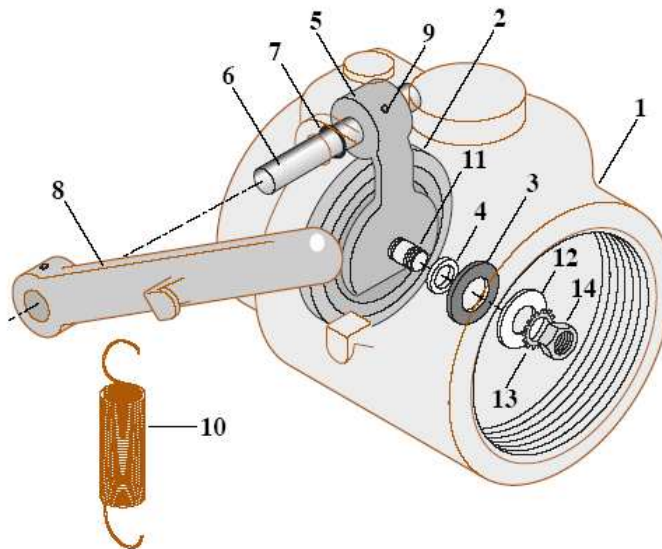
3" x 4"



4", 5", 6"

Description	Product	Weight	List Price
3" x 4"	8-0640	20.0	<b>394.00</b>
4"	8-0650	36.0	<b>536.00</b>
5"	8-0655	55.0	<b>581.00</b>
6"	8-0660	70.0	<b>592.00</b>

**REPLACEMENT PARTS FOR DISCHARGE PRIMING VALVE**



Item	Description	Part #	Key	List Price
Clack	3" x 4" 4" OD	8-0641	2	<b>64.00</b>
	4" x 4" 4.75" OD	8-0651	2	<b>125.00</b>
	5" x 5" 5.75" OD	8-0656	2	<b>145.00</b>
	6" x 6" 6.75" OD	8-0661	2	<b>155.00</b>
Valve Body	3" x 4"	8-1002	1	<b>250.00</b>
	4" x 4"	8-1003	1	<b>380.00</b>
	5" x 5"	8-1004	1	<b>785.00</b>
	6" x 6"	8-1005	1	<b>700.00</b>
Clack Hinge Handle Assembly	3" x 4"	8-1009	5,6, 8	<b>177.00</b>
	4" x 4"	8-1010	5,6, 8	<b>180.00</b>
	5" x 5"	8-1011	5,6, 8	<b>185.00</b>
	6" x 6"	8-1012	5,6, 8	<b>188.00</b>
'O' Ring	--	8-1013	7	<b>3.75</b>
Spring Pin (2 required)	--	8-1014	9	<b>3.80</b>
Spring	3" x 4"	8-1015	10	<b>8.80</b>
Spring	4"-5"-6"	8-1016	10	<b>9.90</b>
Grommet	--	8-1007	3	<b>3.75</b>
Spacer	--	8-1008	4	<b>12.35</b>
Bolt Stud	--	8-1017	11	<b>3.20</b>
Nut	--	6-0902	14	<b>0.05</b>
External Tooth Washer	--	8-1018	13	<b>2.50</b>
Flat Washer	--	9-6762	12	<b>2.50</b>

Pumps & Accessories

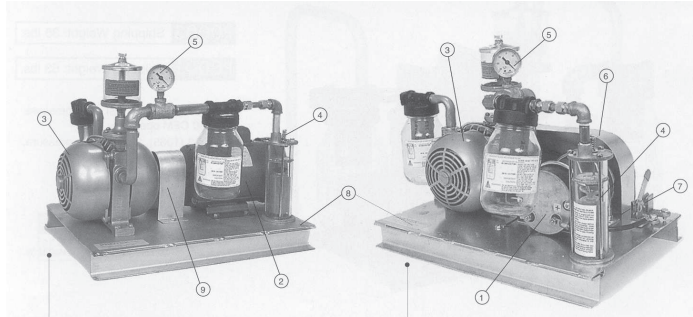
# POWER & HAND-D PRIMERS



Product	Description	Part Number	Weight	List Price
<b>PROTEK POWER PRIMER</b>	35AC	6-9715		<b>2585.00</b>
	35DC (battery)	6-9716		<b>2688.00</b>

**Features:**

- Converts centrifugal pumps to self-primers.
- Fast, efficient primer for pumps with high suction lifts.
- Requires minimum maintenance.
- Ideal for diesel or gasoline-powered engines.



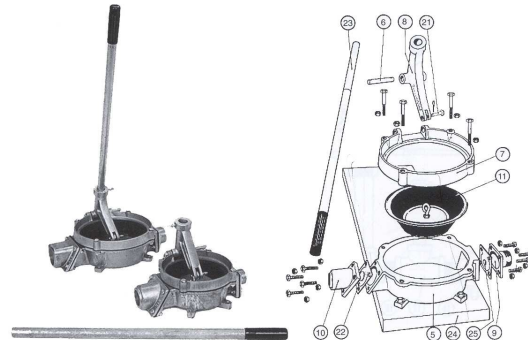
Product	Description	Part Number	Weight	List Price
<b>PROTEK HAN-D PUMPERS</b>	#700 Han-D Pumper	6-9760	18.0	<b>430.00</b>
	#900 Han-D Pumper	6-9762	20.0	<b>497.00</b>
	#700 Diaphragm	6-9761		<b>53.00</b>
	#900 Diaphragm	6-9763		<b>64.00</b>

Uses include small or occasional jobs where it takes too long to setup on engine driven pump.

	Inlet / Outlet	Capacity	Max. Suction Lift	Max Discharge Head
Model 700	1.5" FPT	.5 gal/Stroke	20 feet	10 feet
Model 900	2" FPT	1 gal/Stroke	15 feet	10 feet

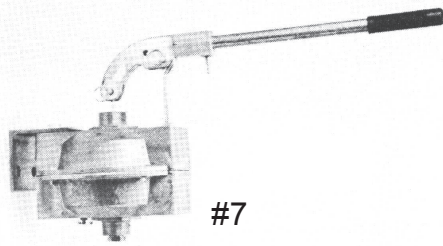
**Features:**

- Complete dewatering portable unit
- Lightweight, easy to use
- Cast aluminum body
- Pumps air, water, sewage, mud and many chemical products
- Ideal for priming large diameter pipes (i.e. 8", 10", 12" sizes)

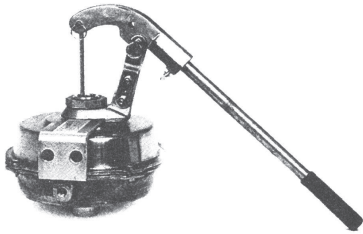


**HAND PRIMER**

#7	8-0610	7.0	<b>228.00</b>
#9	8-0620	20.0	<b>325.00</b>



#7



#9

\*1/2" female thread base (Rovatti has 3/4")  
Call for prices on #5 & #7 hand primers & other primers

- Features:
- Quick hand priming of any type of centrifugal pump, siphon tube or pump situation
  - Lightweight and easy to install
  - Durable and dependable
  - Reinforced diaphragms are long-lasting
  - Provides up to 20 feet of suction lift with ease and leverage
  - New style allows for Fulcrum Bracket to be adjusted at various angles for your convenience.

**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
#7	6	15	32	12	33	65			
#9	4	9	20	10	23	45	17	37	77

**Primer Selection Chart:**

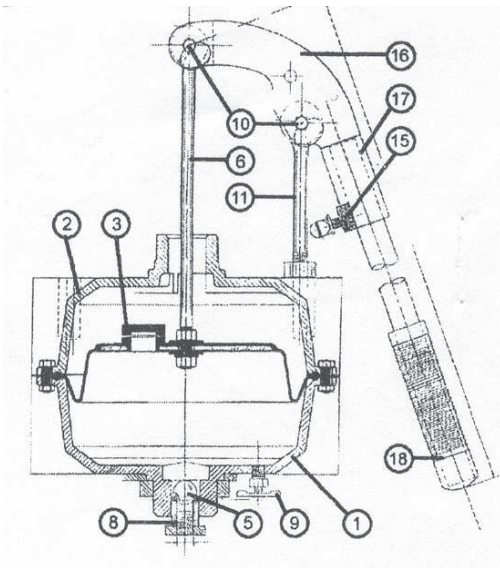
Primer	Pipe Size
#7	4", 5", & 6"
#9	6", 8" or larger

**Features:**

Lightweight and durable solid-cast aluminum body.  
Reinforced diaphragms are long-lasting.  
Steel mounting bracket allows for easy and dependable installation.  
Fulcrum eyebolt can be adjusted at various angles for your convenience.

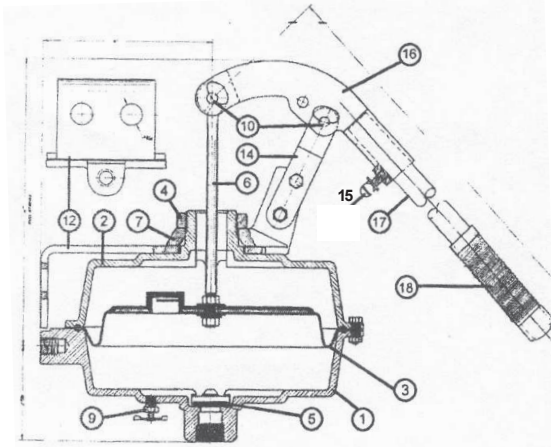
Product	Description	Part Number	Weight	List Price
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## PARTS FOR #7 HAND PRIMER



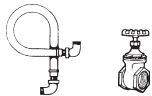
Item	Item #	Part #	List Price
Diaphragm - #7	3	8-0631	37.00
Lower Housing	1	9-5353	79.00
Check Valve (Ball)	5	9-5355	3.00
Drain Valve	9	8-1102	6.40
Upper Housing	2	9-5354	79.00
Hex Bolt & Nut-1/4x20x7/8" (4 required)		8-1104	0.90
Connecting Rod w/Nuts	6	8-1108	11.00
Handle Bracket	16	8-1111	54.00
Fast Pin (2 required)	10	8-1112	2.40
Valve Bushing	8	9-5356	21.00
Fulcrum Eyebolt	11	9-5357	12.00
Mounting Bracket		9-5358	32.00
Thumb Screw	15	9-5359	3.00
Handle (Pipe)	17	9-5360	15.00
Handle Grip	18	9-5361	9.00

## PARTS FOR #9 HAND PRIMER



Item	Item #	Part #	List Price
Diaphragm - #9	3	8-0621	52.00
Lower Housing	1	8-1100	102.00
Check Valve (Disc)	5	8-1101	2.90
Drain Valve	9	8-1102	6.40
Upper Housing	2	8-1103	100.00
Hex Bolt & Nut-1/4x20x7/8" (4 required)		8-1104	0.90
Connecting Rod w/Nuts	6	8-1108	11.00
Lock Nut, 1-1/2"	4	8-1109	12.00
Fulcrum Bracket	7	8-1110	19.00
Handle Bracket	16	8-1111	54.00
Fast Pin (2 required)	10	8-1112	2.40
Mounting Bracket	12	8-1113	32.00
Fulcrum Link (2 required)	14	8-1115	11.00
Thumb Screw	15	9-5359	3.00
Handle (Pipe)	17	9-5360	14.00
Handle Grip	18	9-5361	10.00

## PRIMER HOSE KIT



1/2"	8-0622	--	54.00
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## DIAPHRAGMS



#5 Diaphragm B-183	8-0629	--	36.00
#6 Diaphragm	8-0611	--	15.00
#7 Diaphragm C-106	8-0631	--	44.00
#9 Diaphragm B-61	8-0621	--	60.00
Wade Rain #9-30-3	8-0613		17.00
Travis WPP-1D	8-0614		35.00

**INTAKE MANIFOLD PRIMER EXHAUST PRIMER**

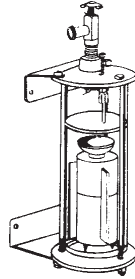
**INTAKE MANIFOLD PRIMER**

Intake Manifold Primer

8-0630

7.0

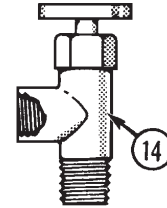
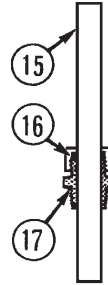
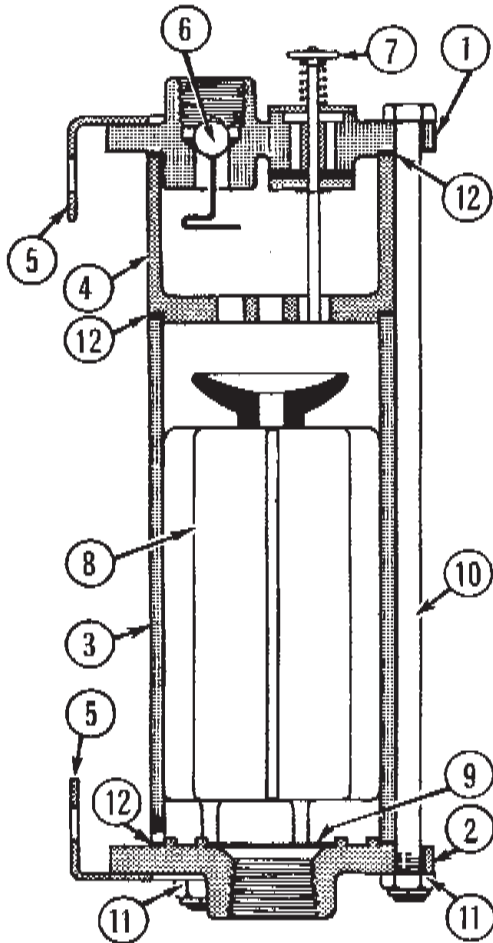
240.00



Features:

- Fast, efficient priming using engine manifold vacuum while engine runs at low speed.
- All working parts enclosed in fully transparent plastic housing permits observation of primer operation at all times.
- Lightweight plastic float with rubber "cup type" valve provides instant and positive closure as soon as priming is completed.
- Check valve prevents reverse flow during normal pump operation.
- Easy to operate...simply start engine and open one valve to begin priming.
- Can be readily installed on any gasoline or LPG engine of four or more cylinders to provide suction lifts up to 20 feet.
- Complete operation instructions are permanently attached to the primer, and detailed instructions for installation and maintenance are supplied with each unit.
- Connection hoses not included.

**PARTS FOR INTAKE MANIFOLD PRIMER**

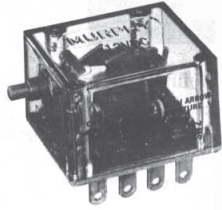


Item	Item #	Part #	List Price
Upper Housing	4	8-0633	24.00
Lower Housing	3	8-0634	28.00
Gaskets	12	8-0635	2.25
Top Cover Assembly	1/6/7	8-1120	86.00
Lower Cover Assembly	2/9	8-1121	51.00
Brackets	5	8-1122	10.00
Tie Bolts & Nuts	10/11	8-1123	8.00
Float Assembly	8	8-1124	31.00
Angle Valve	14	8-1125	29.00
Packing Gland Assembly	15/16/17	8-1126	16.00

Pumps & Accessories

Product	Description	Part Number	Weight	List Price
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**MAGNETIC SWITCH**



Murphy #117 DC (12/24 Volt)	6-0020	--	<b>49.00</b>
Murphy #518APH (12 Volt) (has 6 prongs for Deutz diesels)	6-0021	--	<b>59.00</b>

A manually reset magnetic Circuit Breaker which is tripped by a switch gauge when a malfunction is detected. It is commonly used to break the ignition circuit of a distributor ignition engine or break power to a solenoid fuel valve when it receives a signal from the switch gauge.

**OIL PRESSURE SWITCH GAUGE**



75 psi Murphy, #20P75	6-0022	--	<b>57.00</b>
100 psi Murphy, #20P100	6-0023	--	<b>62.00</b>

This is a basic engine or pump oil pressure switch gauge.

**ENGINE TEMPERATURE SWITCH GAUGE**



Murphy 20T254, 250°F Water	6-0024	--	<b>82.00</b>
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This Temperature switch gauge is available in various models and ranges to prevent engine damage from high water oil or cylinder head temperature.

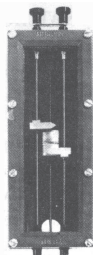
**VACUUM/LOAD GAUGE**



Murphy 20V3	6-0025	--	<b>77.00</b>
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Commonly used to monitor manifold vacuum for loss of load or overload on spark ignition engines, vacuum switch gauges are recommended for preset limit shutdown of irrigation engines.

**OIL LEVEL SAFETY GAUGE**



Murphy L129	6-0026	--	<b>140.00</b>
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Combination high and low engine oil level switch gauge gives continuous indication of the oil level and condition. No need to shut down to check oil level. Adjustable high and low level contacts operate to shutdown engine or operate alarm when improper level exists.

**WATER LEVEL SAFETY GAUGE**

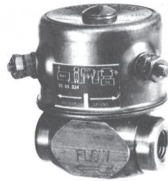
Murphy , L150 6-0027 -- 100.00



Coolant level SWICHGAGE can be visually checked with this water level SWICHGAGE. If the water level falls too low, contact is made and the engine shutdown system is activated (or alarm is sounded.)

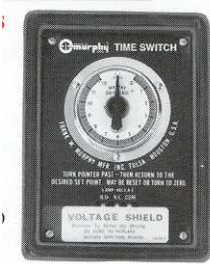
**FUEL STOP SOLENOID**

Murphy, SV12 6-0028 -- 89.00



- Solenoid Fuel Valve to shut off the fuel to Diesel engines upon engine or driven equipment malfunction.  
- 6-32V available

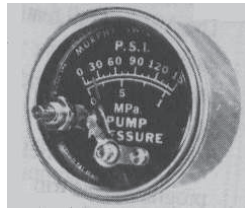
**TIMER**



Murphy, 12T w/case (12 hour)	6-0019	--	<b>463.00</b>
Murphy, 12T wo/case (12 hour)	6-0031	--	<b>284.00</b>
Murphy, 24T w/case (24 hour)	6-0017	--	<b>473.00</b>
Murphy, 24T wo/case (24 hour)	6-0018	--	<b>284.00</b>

- Timer switches are designed to automatically shut down engine when a predetermined operating time is set.  
- Weatherproof case

**PUMP PRESSURE GAUGE**



Murphy, 20P7-15	9-5252	--	<b>73.00</b>
Murphy, 20P7-30	9-5254		<b>63.00</b>
Murphy, 20P7-50	9-5256		<b>63.00</b>
Murphy, 20P7-75	9-5257		<b>62.00</b>
Murphy, 20P7-100	9-5251		<b>62.00</b>
<b>Murphy, 20P7-150</b>	In stock		<b>9-5253 63.00</b>
Murphy, 20P7-300	9-5255		<b>63.00</b>

Monitors Discharge Pressure to detect water supply failure or parted couplings.

**STANDARD MURPHY MOUNT PANEL**



Murphy, WAI7 6-0030 -- 545.00

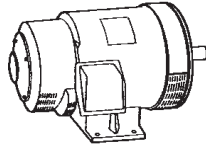
- Designed for mobile equipment such as trucks, tractors, and fork lifts  
-Open panel for under dash mounting.  
-Pressure, temperature, visual and audible alarms, before shutdown.

Murphy Toggle Switch, TF	6-9704	--	<b>12.00</b>
Murphy Amp Meter, 60060	6-9705	--	<b>15.20</b>
Murphy Stop Button, PB1285	6-9706	--	<b>9.00</b>

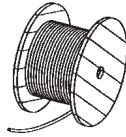
Pumps & Accessories



Product	Description	Part Number	Weight	List Price
<b>LIMA GENERATOR</b>	5 KW	6-8010	150.0	<b>3,200.00</b>
	7.5 KW	6-8011	165.0	<b>3,570.00</b>
	10 KW	6-8012	245.0	<b>3,780.00</b>
	12 KW	6-8013	260.0	<b>3,990.00</b>
	15 KW	6-8014	275.0	<b>4,680.00</b>

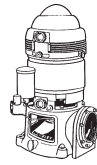


## WIRE



Aluminum, Single	6-6800	--	<b>Call</b>
Aluminum, Triplexed	6-6801	--	<b>Call</b>
Aluminum, Quadraplexed	6-6802	--	<b>Call</b>
Aluminum, Tuf-Hide	6-6803	--	<b>Call</b>
Underground Feeder, UF	6-6804	--	<b>Call</b>

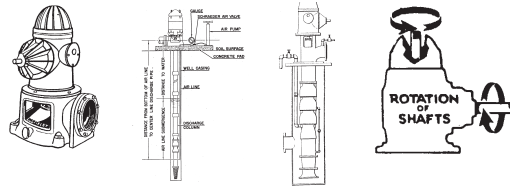
## ELECTRIC MOTORS



Marathon	<b>Call</b>
Baldor	<b>Call</b>
Others	<b>Call</b>

Base is not included.

## GEAR HEADS



Amarillo	<b>Call</b>
Johnson	<b>Call</b>
Randolph	<b>Call</b>

## PROP-SHAFT GUARD



7" dia x 10" - 18"	6-9822	<b>48.00</b>
7" dia x 24" - 42"	6-9823	<b>50.00</b>
7" dia x 36" - 54"	6-9824	<b>55.00</b>
7" dia x 36" - 66"	6-9825	<b>59.00</b>
12" dia x 14" - 24"	6-9826	<b>72.00</b>
12" dia x 36" - 66"	6-9827	<b>105.00</b>
12" dia x 28" - 54"	6-9828	<b>114.00</b>

Unprotected prop-shaft on your irrigation wells can maim or kill almost instantly. Prevent potential tragedy, rest easy during pumping season with a Hastings Prop-Shaft guard permanently in place at each of your wells. They are simple and fast to install - using existing bolts on most pumps and engines. Once on, they stay on. You have easy full access for lubrication through a 2" slot on the underside. Formed from heavy-gauge galvanized steel, the guard will give your well a neat, clean appearance - and you will be assured of safety around the clock!

**Special Features:**

- Meets OSHA requirements
- Endorsed by farm safety authorities
- Protection against loss of life or limb
- Adapts to any internal combustion engine, gearhead installation
- Slips easily over prop-shaft and bolts to engine and pump
- Complete access for lubrication through 2" wide opening running the length of guard
- Rigid construction from galvanized steel. Withstands abuse and stays neat-appearing year after year.

## AUTOMATIC TURBINE PUMP OILER



4 Gallon	6-8098	<b>368.00</b>
11 Gallon	6-8099	<b>481.00</b>

Inadequate drip oiling is the leading cause of pump failure. Continuous dripping wastes oil and causes contamination. This automatic valve assures lubrication when pump is running. Saves costly trips into the well. Manual mode for pre-season lubrication.

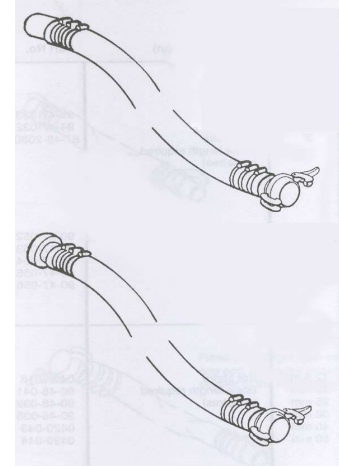
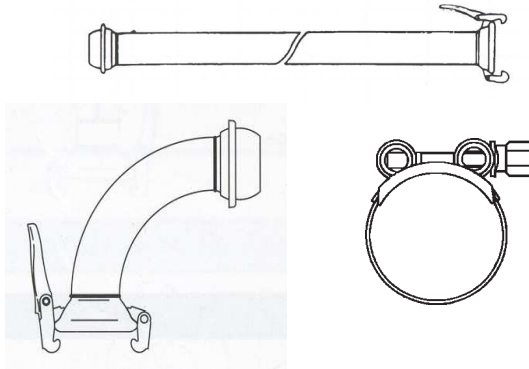
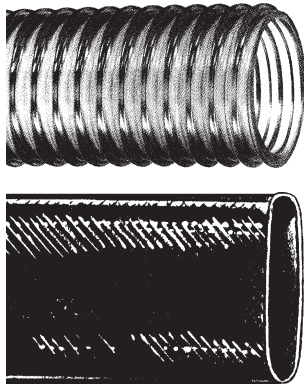
**Advantages:** Automatic operation assures lubrication whenever the pump is pumping, this helps avoid inadequate oil dripping which is the leading cause of turbine pump failure.

# Municipal/Industrial Hose & Fittings

Schumacher Irrigation, Inc. is "Your Liquid Solutions Provider"

We fabricate and distribute a full line of hose and accessories, couplings, clamps, fittings, valves, pumps, and suction and vacuum accessories for industry and liquid / waste water handling applications.

We pride ourselves on our same day service on both standard and custom parts. Please call us for quick and quality liquid solutions.



	231.	cu. in.
	0.137	cu. ft.
	3.785	litres
1 U.S. Gallon	.00379	cu. meters
	0.833	Imp. gal.
	.0238	42-gal. barrel
1 Imperial Gallon	1.2	U.S. gal.
1 Cubic Foot	7.48	U.S. gal.
	0.0283	cu. meter
1 Barrel (Oil)	42	U.S. gal.
1 Litre	.2642	U.S. gal.
1 Cubic Meter	35.314	cu. ft.
	264.2	U.S. gal.
1 Acre Foot	43,560	cu. ft.
	325,829	U.S. gal.
1 Acre Inch	3,630	cu. ft.
	27,100	U.S. gal.

#### CAPACITY

1 Cubic Foot per Second (2nd foot) (c.f.s.)	449	g.p.m.
1 Acre Foot Per Day	227	g.p.m.
1 Acre Inch Per Hour	454	g.p.m.
1 Litre Per Second	15.85	g.p.m.
1 Cubic Meter Per Minute	264.2	g.p.m.
1 Miner's Inch (Idaho, Kans., Neb., N.M., N.D., S.D., Utah, Wash.)	9.0	g.p.m.
1 Miner's Inch (Ariz., Calif., Mont., Nev., and Ore.)	11.22	g.p.m.
1,000,000 gal. per day	695	g.p.m.

#### HEAD

1 Pound Per Square Inch (p.s.i.)	2.31 ft. head of water
	2.04 in. mercury
	0.07 kg. per sq. cm.
1 Foot of Water	0.433 lb. per sq. in.
	.885 in. mercury
1 Inch of Mercury (or vacuum)	1.132 ft. of water
1 Kilogram Per Square Cm.	14.22 lb. per sq. in.
1 Atmosphere (at sea level)	14.7 lb. per sq. in.
	34.0 ft. of water
	10.35 meters of water
1 Meter of Water	3.28 feet of water

#### WEIGHT

1 U.S. Gallon of Water	8.33 lb. = 8-1/3 lbs.
1 Cubic Foot of Water	62.35 lb.
1 Kilogram or Litre	2.2 lb.
1 Imperial Gallon	10.0 lb.

1 Inch	2.54 centimeters
1 Meter	3.28 feet
	39.37 inches
1 Rod	16.5 feet
1 Mile	5280 ft. (1.61 kilometers)

#### HORSEPOWER

1 H.P. =	.746 kilowatts or 746 watts
	33,000 ft. lbs. per minute
	550 ft. lbs. per second
H.P. Input =	Horsepower input to motor
	1.34 x kilowatts input to motor
Water H.P. =	H.P. required to lift water at a definite rate to a given distance assuming 100% efficiency
	$\frac{G.P.M. \times \text{total head (in. ft.)}}{3960}$
Brake H.P. =	H.P. delivered by motor
	H.P. required by pump
	H.P. input x motor efficiency
	1.34 x KW input x motor efficiency
	Water H.P.
	Pump efficiency
	$\frac{G.P.M. \times \text{total head (ft.)}}{3960 \times \text{pump efficiency}}$
	$\frac{G.P.H. \times \text{total head (lbs. per sq. in.)}}{103,000 \times \text{pump efficiency}}$

#### EFFICIENCY

Efficiency =	$\frac{\text{Power output}}{\text{Power input}}$
Motor Efficiency =	$\frac{\text{H.P. output}}{\text{K.W. input} \times 1.34}$
Pump Efficiency =	$\frac{G.P.M. \times \text{total head (ft.)}}{3960 \times \text{B.H.P.}}$
Plant Efficiency =	$\frac{G.P.M. \times \text{total head (ft.)}}{5300 \times \text{KW input}}$