

SERIES 'HP' | HAND DISPENSING PUMP

2900 MacArthur Blvd. Northbrook, IL. USA 60062 www.serfilco.com (800) 323 - 5431

BULLETIN
P-404_AE
JUNE 2013

***For point-of-use dispensing chemicals used for:
PLATING / PHARMACEUTICAL / INDUSTRIAL / PETROLEUM PRODUCTS
and other stringent applications***



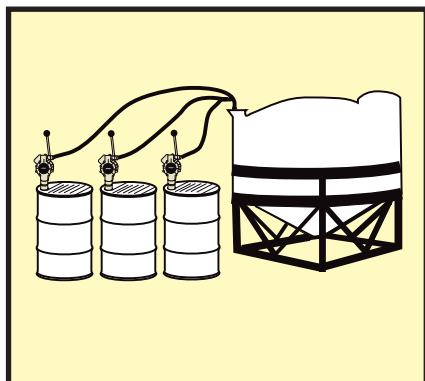
A tough, quality engineered pump

- **QUALITY ENGINEERED THERMOPLASTIC CONSTRUCTION**
- **CONTROLLED DISCHARGE RATE**
The pump discharges approximately one (1) quart on every complete forward and backward cycle.
- **SUCTION LIFT:** Tested for 15 ft. minimum
- **DISCHARGE HEAD:** Up to 25 ft.
- **VISCOSITIES UP TO 2000 SSU**
- **TWO POSITION PUMP HANDLE**
Handle can be mounted above the pump or below.
- **TAMPER PROOF HANDLE**
Can be padlocked to protect against unauthorized use.
- **SELF-LUBRICATING PTFE PISTON RING**
Operates wet or dry for long life

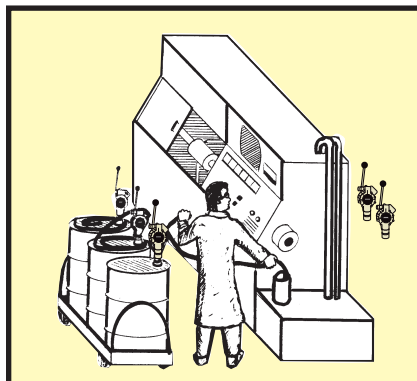
Designed for the transfer or dispensing of concentrates, additives or other liquids which are purchased in bulk but are used in small quantities. This low cost pump delivers one pint per stroke or one quart with the forward and back push/pull of the handle. The variety of materials of construction enables the user to select those which are specifically required for his individual needs according

to chemical resistance charts. The use of this pump eliminates having to pour from one container to another and avoids costly and hazardous spilling and splashing.

***See following page for specifications
and ordering information.***



**Liquid transfer
for batch mixing.**



**Low cost permits use of
multiple pumps to avoid
cross-contamination.**

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ELIMINATES "DUMPING" & SPILLING OF SOLUTIONS

The HAND DISPENSING PUMP is a double acting piston type which will handle a wide range of solutions. The pump body, valves, valve seats and piston are all made of chemically resistant, performance engineered plastics, especially compounded to give the pump strength and rigidity. All internal metal parts in contact with the liquid are made of 316 stainless steel. The "O"-ring and gasket materials are cork-nitrile, Viton or EPDM (ethylene propylene). 1" NPT suction, 3/4" NPT discharge.

TO ORDER, use Price Code Number
Select pump from chart below and add discharge hose
and suction tube to complete assembly

PUMP

MODEL	MATERIALS OF CONSTRUCTION	"O"-RING	GASKET	PRICE CODE NO.
HPV	POLYESTER (glass reinforced) - housing, cover plate, piston, valves and bung adapter	VITON®	VITON	59-0001
HPN		VITON	CORK-NITRILE	59-0002
HPE		EPDM	EPDM	59-0003
HRV	RYTON® (glass reinforced) - housing, cover plate, ECTFE piston, valves and bung adapter	VITON	VITON	59-0004
HRN		VITON	CORK-NITRILE	59-0005
HRE		EPDM	EPDM	59-0006

All models have 316 stainless steel piston rod, fasteners and suction screen in contact with liquid. All pumps include a 2" NPT bung adapter.

HOSES & SUCTION TUBE

MODEL	DESCRIPTION	PRICE CODE NO.
DISCHARGE HOSES (Add to Model No. and Price Code No.)		
-1	8' EPDM, w/polyester elbow & nozzle	-1
-2	8' Nitrile (Buna-N), w/polyester elbow & nozzle	-2
-3	8' PVC black vinyl, w/polyester elbow & nozzle	-3
-4	8' Cross linked polyethylene, w/polyester elbow & nozzle	-4
-5	8' Cross linked polyethylene, w/ECTFE elbow & nozzle	-5
-6	8' EPDM, w/ECTFE elbow & nozzle	-6
-7	8' Nitrile (Buna-N), w/ECTFE elbow & nozzle	-7
-8	8' PVC, w/ECTFE elbow & nozzle	-8

SUCTION TUBE (Add to Model No. and Price Code No.)

-A	2 pc. 1" polyester, 34" long w/polyester coupling & PTFE tape	-A
-B	2 pc. 1" PTFE, 34" long w/ECTFE coupling & PTFE tape	-B
-C	2 pc. 1" UHMW polyethylene [#] , 34" long w/ECTFE coupling	-C
-E	1 pc. 3/4" PVC flexible, 35" long (prevents tearing of drum liners)	-E

[#]Ultra High Molecular Weight polyethylene

OPTIONAL EQUIPMENT

MODEL	DESCRIPTION	PRICE CODE NO.
DISCHARGE SPOUT (Add to Model No. and Price Code No.)		
-M	Polyester	-M
-N	ECTFE	-N
BUTTRESS-BUNG ADAPTER (2" buttress x 2" NPT) (Add to Model No. & Price Code No.)		
-R	Polypropylene/polyester assembly for HP pump	-R
-S	Polypropylene/ECTFE assembly for HR pump	-S

WALL BRACKET

55-7149

Registered trademarks: Teflon, Viton- DuPont Dow Elastomers; Rytion- Phillips Chemical



SAFETY PRECAUTIONS

Plastic pumps are not designed nor intended to be used for transferring flammable or explosive liquids. Only metallic pumps which can be grounded and bonded should be used for this purpose. Refer to a chemical resistance data chart for compatibility of materials with liquids to be pumped. Always wear protective safety clothing such as gloves, apron and goggles.

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CHEMICAL RESISTANCE DATA CHART FOR HAND DISPENSING PUMP

A - Recommended
C - Not recommended
X - Insufficient data
F - Consult factory

UHMW-PE
ECTFE
RYTON
POLYESTER
EPDM
VITON
CORK-NITRILE
316 SS
PVC

UHMW-PE
ECTFE
RYTON
POLYESTER
EPDM
VITON
CORK-NITRILE
316 SS
PVC

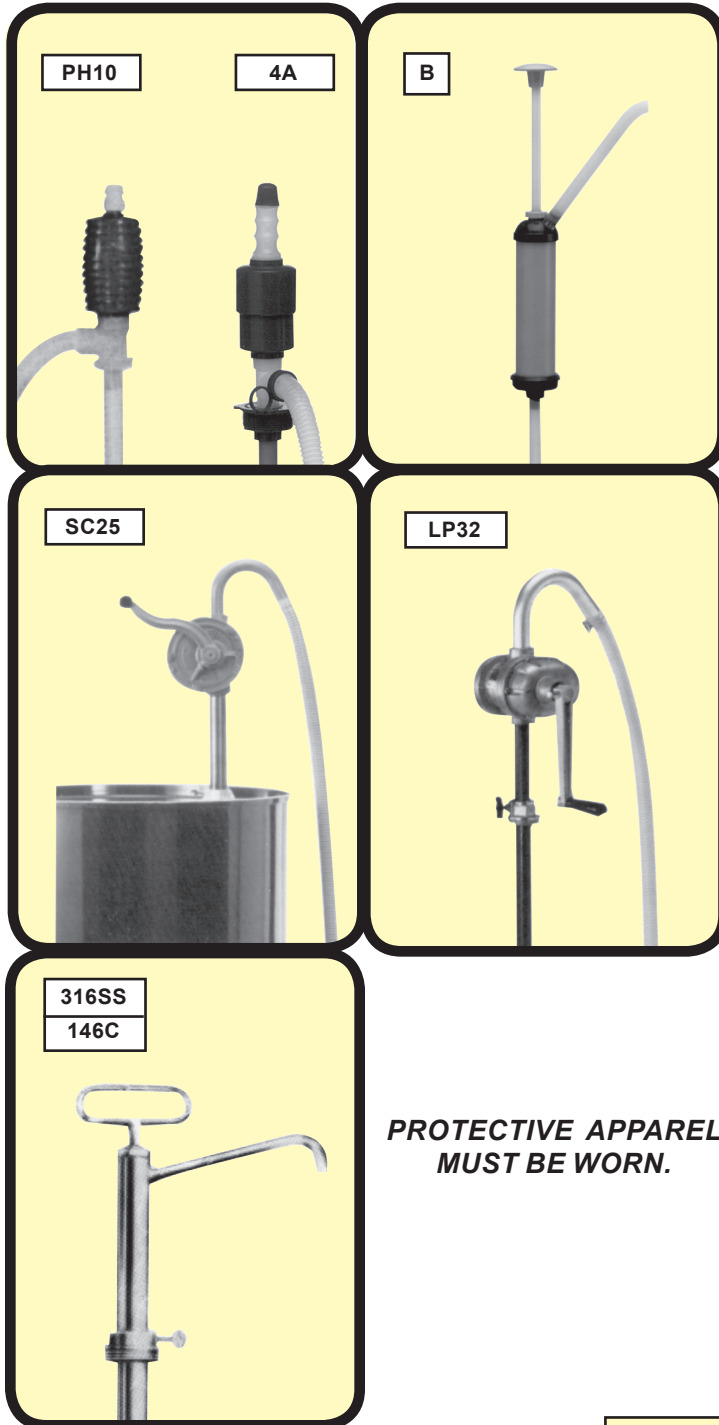
Acetaldehyde	A	A	A	A	A	C	X	A	C
Acetic acid, 20%	A	A	A	A*	A	C	A	A	A
Acetic acid, 50%	A	A	A	C	A	C	A	A	A
Acetic acid, glacial	A	A	A	C	A	C	X	A	C
Acetic anhydride	A	A*	A	C	A	C	X	A	C
Acetone	A	A	A	C	C	C	C	A	C
Aluminum chloride	A	A	A	C	A	A	A	C	A
Aluminum fluoride	A	A	A	C	A	A	A	C	A
Aluminum sulfate	A	A	A	A*	A	A	A	A	A
Ammonia, 30% (cold)	A	A	A	C	A	C	A	A	A
Ammonium chloride	A	A	A	A*	A	A	A	A	A
Ammonium nitrate	A	A	A	A*	A	C	A	A	A
Ammonium persulfate	A	A	X	A*	A	A	A	A	A
Ammonium phosphate	A	A	A	A*	A	A	A	A	A
Ammonium sulfate	A	A	A	A*	A	C	A	A	A
Amyl acetate	A	A	A	A*	A	C	X	A	C
Amyl alcohol	A	A	A	A*	A	A	A	A	A
Amyl chloride	C	A	X	A*	C	A	X	A	C
Aniline	A	A*	A	C	A	C	X	A	C
Aqua regia	C	A	C	C	C	A	X	C	C
Arsenic acid	A	A	A	C	A	A	A	A	A
Barium chloride	A	A	A	A*	A	A	A	A*	A
Barium sulfate	A	A	A	A*	A	A	A	A*	A
Beer	A	A	A	A*	A	A	X	A	A
Benzaldehyde	A	A*	C	A*	A	C	X	A	C
Benzene (benzol)	A	A	A*	A*	C	A	A	A	C
Benzoic acid	A	A	A	A*	C	A	X	A	A
Borax (sodium borate)	A	A	A	A*	A	A	A	A	A
Boric acid	A	A	A	A*	A	A	A	A	A
Bromine water	A	A	C	C	C	A	X	C	A*
Butyl acetate	A	A	A	A*	A	C	C	A	C
Butyric acid	A	A	A*	C	A	A	X	A	A
Calcium bisulfite	A	A	A	C	C	A	A	A	A
Calcium chloride	A	A	A	A*	A	A	A	A	A
Calcium hypochlorite, 20%	A	A	A	A*	A	A	A	A*	A
Calcium sulfate	A	A	A	A*	A	A	A	A	A
Carbon tetrachloride	A	A	A*	A*	C	A	A	A	A*
Carbonic acid	A	A	A	C	A	A	A	A	A
Chloroacetic acid	A	A	A	C	A	C	X	C	A
Chlorine water	A	A	A	C	C	A	A	A	C
Chlorobenzene	A	A	A	C	C	A	X	A	C
Chloroform (wet)	A	A	A	A*	C	A	X	A	C
Chlorosulfonic acid	A	A*	C	C	C	C	C	A	A
Chromic acid, 10%	A	A	A	C	C	A*	C	A	A
Chromic acid, 50%	A	A	A	A*	C	C	X	C	C
Chromic acid, 80%	A	A	A	A*	C	C	X	C	C
Citric acid	A	A	A	A*	A	A	A	A	A
Copper chloride	A	A	A	X	A	A	A	C	A
Copper cyanide	A	A	A	C	A	A	A	A	A
Copper nitrate	A	A	A	A*	X	A	A	A	A
Copper sulfate	A	A	A	A	A	A	A	A	A
Cresylic acid, 50%	A	A	X	A*	C	A	A	A	A
Ethyl acetate	A	A	A	A*	A	C	C	A	C
Ethyl chloride	A	A	A	C	A	A	A	A	C
Ethylene glycol	A	A	A	A*	A	A	A	A	A*
Fatty acids	A	A	X	A*	C	A	A	A	A
Ferric chloride	A	A	A	C	A	A	A	C	A
Ferric nitrate	A	A	A	A*	A	A	A	A*	A
Ferric sulfate	A	A	C	C	A	A	A	A	A
Ferrous chloride	A	A	A	A*	A	A	A	C	A
Ferrous sulfate	A	A	A	A*	A	A	X	A*	A
Fluoroboric acid, 30-40%	A	A	A	A*	A	A	A	A*	A
Fluosilicic acid, 20%	A	A	A	C	A	A	A	A*	A
Formaldehyde, 40%	A	A	A	A*	A	A	A	A	A
Formic acid	A	A	A	C	A	A	A	C	A*
Freon 12 (wet)	A	A	A*	A*	A	A	A	C	A*
Fuel oils	A	A	A	A	C	A	A	A	A
Furfural	A	A	A	A*	A	C	X	A	C
Glycerine (glycerol)	A	A	A	A*	A	A	A	A	A
Heptane	A	A	A	A*	C	A	A	A	A
Hexane	C	A	A	A*	C	A	A	A	A*
Hydrobromic acid, 40%	A	A	A	C	A	A	A	C	A
Hydrochloric acid, 0-20%	A	A	A	A	A	A	A	C	A
Hydrochloric acid, 40%	A	A	A	C	C	A	C	C	A
Hydrocyanic acid	A	A	X	A*	A	A	A	A*	A
Hydrofluoric acid, 10%	A	A	C	C	A	A*	X	C	A*
Hydrofluoric acid, 30%	A	A	C	C	A	A	X	C	A*
Hydrofluoric acid, 50%	A	A	C	C	A	A	X	C	A
Hydrofluosilicic acid, 20%	A	A	A	C	A	A	A	A*	A
Hydrogen peroxide, 30%	A	A	A*	C	A*	A	A	A*	A

Hydrogen peroxide, 50%	A	A	C	C	A*	A	A	A*	A*
Hydrogen peroxide, 90%	A	A	X	C	A*	A	A	A*	C
Hydrogen sulfide (Aq. sol.)	A	A	A	A*	A	C	A	A	A*
Iodine (in alcohol)	A	A	C	C	A	A	A	C	C
Kerosene	A	A	A	A*	C	A	X	A	A
Ketones	C	A	A	A*	A	C	X	A	C
Lacquer thinners	C	A	X	C	C	C	C	A	C
Lactic acid	A	A	A	A*	A	A	A	A	A
Lead acetate	A	A	A	A*	A	C	A	A	A
Lubricating oil	A	A	A	A	C	A	A	A	A*
Magnesium chloride	A	A	A	A*	A	A	A	A*	A
Magnesium nitrate	A	A	A	A*	A	A	A	A	A
Magnesium sulfate	A	A	A	A*	A	A	A	A	A
Maleic acid	A	A	X	A*	C	A	X	A	A
Methyl alcohol (methanol)	A	A*	A	A*	A	C	A	A	A*
Methyl chloride	A	A	A*	C	C	A	X	A	C
Methyl ethyl ketone	C	A	A	A*	A	C	X	A	C
Methyl isobutyl ketone	C	A	A	A*	C	C	X	A	C
Methylene chloride	C	C	A*	C	C	C	A	A	C
Naphtha	A	A	A	A*	C	A	A	A	A
Naphthalene	A	A	A	A*	C	A	X	A	C
Nickel chloride	A	A	A	C	A	A	A	A*	A
Nickel sulfate	A	A	A	A*	A	A	A	A	A
Nitric acid, 10%	A	A	A	A	A	A	C	A	A
Nitric acid, 20%	A	A	A*	C	A	A	C	A	A
Nitric acid, 40%	A*	A	C	C	C	A	C	A	C
Nitric acid, anhydrous	A	A	X	C	C	C	C	A*	A
Nitrobenzene	A	A	A	A*	C	C	C	A	C
Oil and fats	A	A	A	A*	C	A	A	A	A
Oleic acid	C	A	A	A*	C	A	A	A	A
Oleum	A	A	A*	C	C	A	X	A	C
Oxalic acid	A	A	A	C	A	A	X	A*	A
Phenol	A	A	A	C	C	A	X	A	A*
Phosphoric acid, 0-80%	A	A	A	A	A	A	A*	A	A
Phosphoric acid, 80-100%	A	A	A	A	A	A	X	A	A
Potassium bicarbonate	A	A	X	A*	X	A	A	A	A
Potassium bromide	A	A	A	A*	X	A	A	A	A
Potassium carbonate	A	A	A	A*	A	A	A	A	A
Potassium chlorate	A	A	A	A*	A	A	A	A	A
Potassium chloride	A	A	A	A*	A	A	A	A	A
Potassium cyanide	A	A	A	A*	A	A	A	A	A
Potassium dichromate	A	A	A	C	A	A	A	A	A
Potassium hydroxide	A	A	A	C	A	C	A	A	A
Potassium nitrate	A	A	A	A*	A	A	A	A	A
Potassium permanganate	A	A	A	C	X	A	A	A	A
Potassium sulfate	A	A	A	A*	A	A	A	A	A
Propyl alcohol	A	A	A	A*	A	A	A	A	A*
Soaps (neutral)	A	A	A	A	A	A	A	A	A
Sodium acetate	A	A	A	A*	A	C	X	A	A
Sodium bicarbonate	A	A	A	A*	A	A	A	A	A
Sodium bisulfate	A	A	A	A*	A	A	A	A*	A
Sodium bisulfite	A	A	X	A*	A	A	A	A	A
Sodium carbonate, 10%	A	A	A	A*	A	A	A	A	A
Sodium chlorate	A	A	A	A*	A	A	A	A	A
Sodium chloride	A	A	A	A	A	A	A	A	A
Sodium cyanide	A	A	A	A*	A	A	A	A	A
Sodium hydroxide, 20%	A	A	A	C	A	C	A*	A	A
Sodium hydroxide, 50%	A	A	A	C	A	C	A*	A	A
Sodium hypochlorite	A	A	A	C	A	A	X	C	A
Sodium nitrate	A	A	A	A*	A	A*	A	A*	A
Sodium silicate	A	A	A	A*	A	A	A	A	A
Sodium sulfate	A	A	A	A*	A	A	A	A	A
Sodium sulfide	A	A	A	A*	A	A	X	A	A
Stannic chloride	A	A	A	C	A	A	A	C	A
Stearic acid	A	A	X	A*	A	A	A	A	A
Stoddards solvent	A	A	A	A*	C	A	A	A	C
Sulfuric acid, 0-30%	A	A	A	A*	A	A	A	A	A
Sulfuric acid, 30-95%	A	A	A	C	C	A	X	C	A*
Tannic acid	A	A	A	C	A	A	A	A	A
Tanning liquors	A	A	X	X	C	A	A	A	A
Tartaric acid	A	A	A	A*	A	A	X	A	A
Tetrahydrofuran	C	C	A	A*	A	C	X	A	C
Toluene (toluol)	A	A	A	C	C	A	A	A	C
Trichloroethylene	A	A	A*	C	C	A	C	A	C
Tricresylphosphate	A	C	X	C	A	A	X	A	C
Turpentine	A	A	A	A*	C	A	A	A	A
Urea	A	A	A	C	A	A	X	A	A
Vinegar	A	A	A	A*	C	A	A	A	A
White liquor (acid)	C	A	X	X	X	A	A	A	A
Xylene (xylo)	A	A	A	C	C	A	A	A	C
Zinc chloride	A	A	A	A	A	A	A	A	A
Zinc sulfate	A	A	A	A*	A	A	A	A	A

* For use in applications where the temperature is 80°F or less.

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For dispensing of small quantities.



**PROTECTIVE APPAREL
MUST BE WORN.**

MODEL	PRICE CODE NO.
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PLASTIC SYPHON PUMP

PH10	56-0000A
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All polyethylene construction. Hand operated bellows. Fits 5-gal. cans, bottles or drums. Ideal for mildly corrosive fluids at ambient temperatures. Top vent cap is syphon breaker. 16" long tube, 21" long hose.

PLASTIC SYPHON PUMP

4A	56-0011C
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All polyethylene. Hand operated bellows and flexible discharge tube will syphon to a lower or pump to a higher level. For dispensing mild acids, caustics, light oils, waxes and disinfectants at ambient temperatures. Top vent cap is syphon breaker, 2" IPS threaded male adapter. 33" long tube, 46" long hose. For 15, 30 and 55 gal. drums. 5 GPM. Wt. 1 lb.

PLASTIC PISTON PUMP

B	56-0003
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Constructed of polyethylene and polypropylene. Threads onto 2" and 3/4" NPT drum opening. With adjustable suction tube. For 15, 30 and 55 gal. drums.

ROTARY METAL PUMPS

Effortless syphon flow after priming with several turns. For 15, 30 or 55 gal. drums. Ideal for detergents and light oils. Pumps 6 GPM at 60 turns per min. 2" IPS threaded male adapter. Features Buna N gaskets.

Syphons 4 GPM after priming;
Pumps 6 GPM @ 60 RPM.
Cast iron. Wt. 14 lbs., 52"
Pumps 15 GPM @ 60 RPM.
Aluminum. Wt. 14-1/2 lbs., 53"

SC25	56-0005A
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LP32	56-0022
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METAL PISTON PUMPS

Fits 15, 30 and 55 gal. containers. Includes 2" IPS threaded male adapter. Pumps 8 oz. on each upstroke.

316 stainless steel and PTFE for alkalis, mild acids.

316SS	56-0175
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Chrome plated steel with polyethylene for non-corrosives, soaps, disinfectants.

146C	56-0010
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OPTIONAL

GROUND-BOND CABLE KIT

For use with metal pumps and containers to prevent static discharge. When pumping flammable or combustible liquids from one container to another, both containers must be effectively bonded and grounded to prevent discharge of sparks of static electricity which could cause explosion and bodily harm.

DESCRIPTION	PRICE CODE NO.
2 ground cables, 6' long with clamps 1 bond cable, 10' long with clamps 1 ground cable, 1' long with clamp for drum	55-0247