



SERFILCO®

Chemical resistant pumps & filters engineered for industry

BULLETIN
P-404_AE
10/22/20
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SERIES 'HP' HAND DISPENSING PUMP

For point-of-use dispensing chemicals used for:

**PLATING / PHARMACEUTICAL / INDUSTRIAL / PETROLEUM PRODUCTS
and other stringent applications**



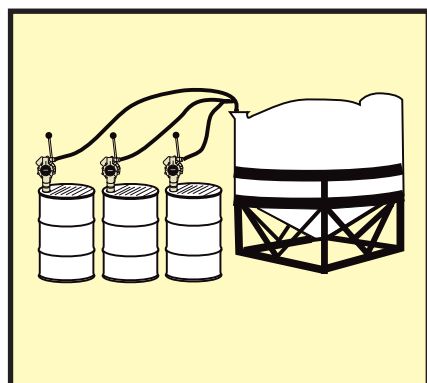
A tough, quality engineered pump

- **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

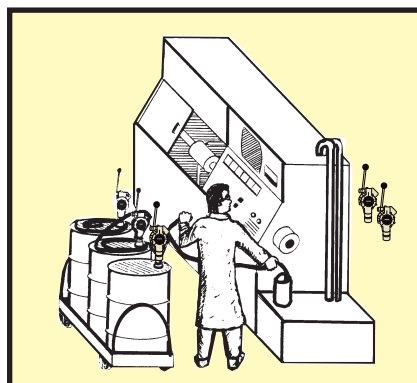
Designed for the transfer or dispensing of concentrates, additives or other liquids which are purchased in bulk but are used in small quantities. This low cost pump delivers one pint per stroke or one quart with the forward and back push/pull of the handle. The variety of materials of construction enables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



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;
Ryton- 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.



CHEMICAL RESISTANCE DATA CHART FOR HAND DISPENSING PUMP

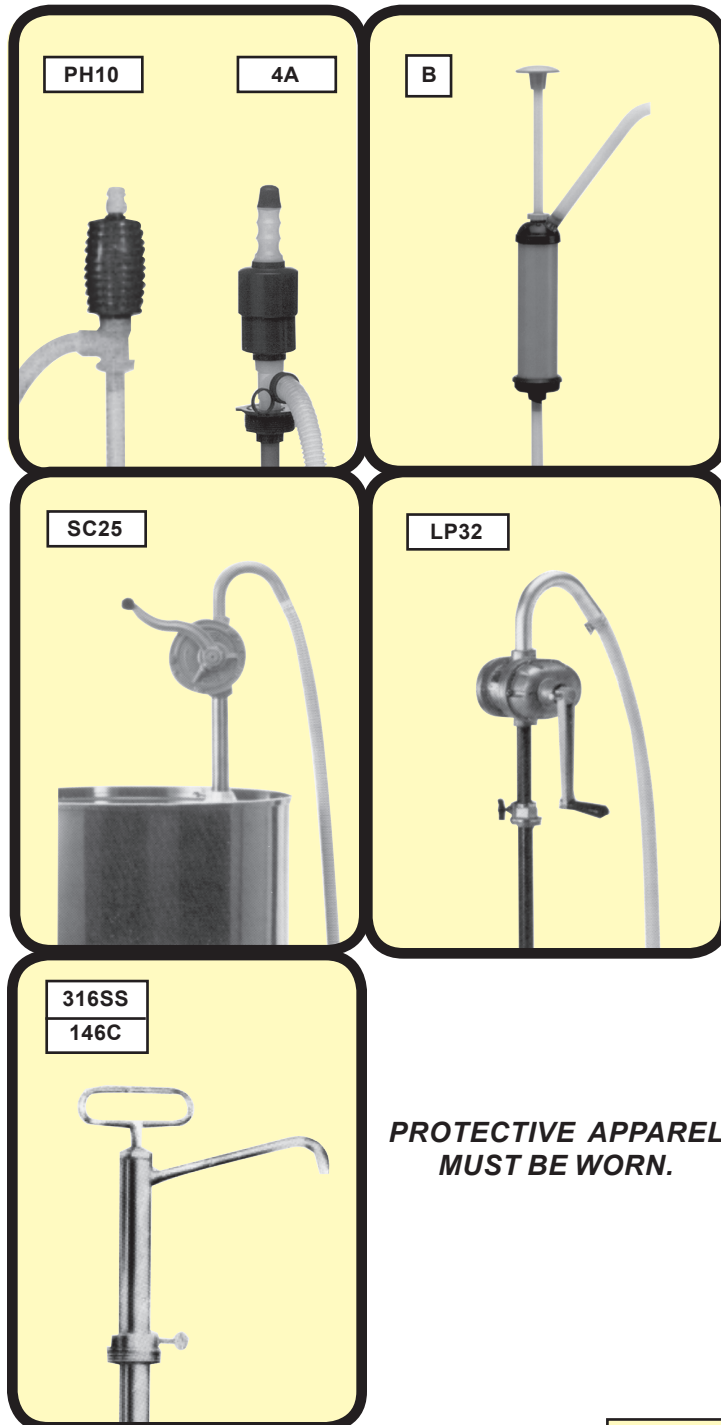
A - Recommended
C - Not recommended
X - Insufficient data
F - Consult factory

	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	Hydrogen peroxide, 50%	A	A	C	C	A*	A	A	A*	A*
Acetic acid, 20%	A	A	A	A	A	C	A	A	A	Hydrogen peroxide, 90%	A	A	X	C	A*	A	A	A*	C
Acetic acid, 50%	A	A	A	A	A	C	A	A	A	Hydrogen sulfide (Aq. sol.)	A	A	A	A*	A	A	C	A	A*
Acetic acid, glacial	A	A	A	A	A	C	X	A	C	Iodine (in alcohol)	A	A	C	C	A	A	X	A	C
Acetic anhydride	A	A*	A	A	A	C	X	A	C	Kerosene	A	A	A	A*	C	A	A	A	A
Acetone	A	A	A	A	C	C	C	A	C	Ketones	C	A	A	A*	A	C	X	A	C
Aluminum chloride	A	A	A	A	C	A	A	C	A	Lacquer thinners	C	A	X	C	C	C	A	A	C
Aluminum fluoride	A	A	A	A	C	A	A	C	A	Lactic acid	A	A	A	A*	A	A	A	A	A
Aluminum sulfate	A	A	A	A*	A	A	A	A	A	Lead acetate	A	A	A	A*	A	C	A	A	A
Ammonia, 30% (cold)	A	A	A	A	C	A	C	A	A	Lubricating oil	A	A	A	A	C	A	A	A	A*
Ammonium chloride	A	A	A	A*	A	A	A	A	A	Magnesium chloride	A	A	A	A*	A	A	A	A*	A
Ammonium nitrate	A	A	A	A*	A	C	A	A	A	Magnesium nitrate	A	A	A	A*	A	A	A	A	A
Ammonium persulfate	A	A	X	A*	A	A	A	A	A	Magnesium sulfate	A	A	A	A*	A	A	A	A	A
Ammonium phosphate	A	A	A	A*	A	A	A	A	A	Maleic acid	A	A	X	A*	C	A	X	A	A
Ammonium sulfate	A	A	A	A*	A	C	A	A	A	Methyl alcohol (methanol)	A	A*	A	A*	A	C	A	A	A*
Amyl acetate	A	A	A	A*	A	C	X	A	C	Methyl chloride	A	A	A*	C	C	A	X	A	C
Amyl alcohol	A	A	A	A*	A	A	A	A	A	Methyl ethyl ketone	C	A	A	A*	A	C	X	A	C
Amyl chloride	C	A	X	A*	C	A	X	A	C	Methyl isobutyl ketone	C	A	A*	C	C	C	X	A	C
Aniline	A	A*	A	C	A	C	X	A	C	Methylene chloride	C	C	A*	C	C	C	A	A	C
Aqua regia	C	A	C	C	C	A	X	C	C	Naphtha	A	A	A	A*	C	A	A	A	A
Arsenic acid	A	A	A	C	A	A	A	A	A	Naphthalene	A	A	A	A*	C	A	X	A	C
Barium chloride	A	A	A	A*	A	A	A	A*	A	Nickel chloride	A	A	A	C	A	A	A	A*	A
Barium sulfate	A	A	A	A*	A	A	A	A*	A	Nickel sulfate	A	A	A	A*	A	A	A	A	A
Beer	A	A	A	A*	A	A	X	A	A	Nitric acid, 10%	A	A	A	A	A	A	C	A	A
Benzaldehyde	A	A*	C	A*	A	C	X	A	C	Nitric acid, 20%	A	A	A*	C	A	A	C	A	A
Benzene (benzol)	A	A	A*	A*	C	A	A	A	C	Nitric acid, 40%	A*	A	C	C	C	C	C	A	A
Benzoic acid	A	A	A	A*	C	A	X	A	A	Nitric acid, anhydrous	A	A	X	C	C	C	C	A*	C
Borax (sodium borate)	A	A	A	A*	A	A	A	A	A	Nitrobenzene	A	A	A	A*	C	C	C	A	C
Boric acid	A	A	A	A	A	A	A	A	A	Oil and fats	A	A	A	A*	C	A	A	A	A
Bromine water	A	A	C	C	C	A	X	C	A*	Oleic acid	C	A	A	A*	C	A	A	A	A
Butyl acetate	A	A	A	A*	A	C	C	A	C	Oleum	A	A	A*	C	C	A	X	A	C
Butyric acid	A	A	A*	C	C	A	X	A	A	Oxalic acid	A	A	A	C	A	A	A*	A	A
Calcium bisulfite	A	A	A	C	C	A	A	A	A	Phenol	A	A	A	C	C	A	X	A	A*
Calcium chloride	A	A	A	A*	A	A	A	A	A	Phosphoric acid, 0-80%	A	A	A	A	A	A	A	A	A
Calcium hypochlorite, 20%	A	A	A	A*	A	A	A	A*	A	Phosphoric acid, 80-100%	A	A	A	A	A	A	X	A	A
Calcium sulfate	A	A	A	A*	A	A	A	A	A	Potassium bicarbonate	A	A	X	A*	X	A	A	A	A
Carbon tetrachloride	A	A	A*	A*	C	A	A	A	A*	Potassium bromide	A	A	A	A*	X	A	A	A	A
Carbonic acid	A	A	A	C	A	A	A	A	A	Potassium carbonate	A	A	A	A*	A	A	A	A	A
Chloroacetic acid	A	A	A	C	A	C	X	C	A	Potassium chlorate	A	A	A	A*	A	A	A	A	A
Chlorine water	A	A	C	C	A	A	A	C	A	Potassium chloride	A	A	A	A*	A	A	A	A	A
Chlorobenzene	A	A	A	C	C	A	X	A	C	Potassium cyanide	A	A	A	A*	A	A	A	A	A
Chloroform (wet)	A	A	A	A*	C	C	X	A	C	Potassium dichromate	A	A	A	C	A	C	A	A	A
Chlorosulfonic acid	A	A*	C	C	C	C	C	A	A	Potassium hydroxide	A	A	A	C	A	A	A	A	A
Chromic acid, 10%	A	A	A	C	C	A*	C	A	A	Potassium nitrate	A	A	A	A*	A	A	A	A	A
Chromic acid, 50%	A	A	A*	C	C	X	C	A	A	Potassium permanganate	A	A	A	C	X	A	A	A	A
Chromic acid, 80%	A	A	A*	C	C	A*	C	C	C	Potassium sulfate	A	A	A	A*	A	A	A	A	A
Citric acid	A	A	A	A*	A	A	A	A	A	Propyl alcohol	A	A	A	A*	A	A	A	A	A*
Copper chloride	A	A	A	X	A	A	A	C	A	Soaps (neutral)	A	A	A	A	A	A	A	A	A
Copper cyanide	A	A	A	C	A	A	A	A	A	Sodium acetate	A	A	A	A*	A	C	X	A	A
Copper nitrate	A	A	A	A*	X	A	A	A	A	Sodium bicarbonate	A	A	A	A*	A	A	A	A	A
Copper sulfate	A	A	A	A	A	A	A	A	A	Sodium bisulfate	A	A	A	A*	A	A	A	A*	A
Cresylic acid, 50%	A	A	X	A*	A	C	A	A	A	Sodium bisulfite	A	A	X	A*	A	A	A	A	A
Ethyl acetate	A	A	A	A*	A	C	C	A	C	Sodium carbonate, 10%	A	A	A	A*	A	A	A	A	A
Ethyl chloride	A	A	A	C	A	A	A	A	C	Sodium chlorate	A	A	A	A*	A	A	A	A	A
Ethylene glycol	A	A	A	A*	A	A	A	A	A*	Sodium chloride	A	A	A	A	A	A	A	A	A
Fatty acids	A	A	X	A*	C	A	A	A	A	Sodium cyanide	A	A	A	A*	A	A	A	A	A
Ferric chloride	A	A	A	C	A	A	A	C	A	Sodium hydroxide, 20%	A	A	A	C	A	C	A*	A	A
Ferric nitrate	A	A	A	A*	A	A	A	A*	A	Sodium hydroxide, 50%	A	A	A	C	A	C	A*	A	A
Ferric sulfate	A	A	C	C	A	A	A	A	A	Sodium hypochlorite	A	A	A	C	A	A	X	C	A
Ferrous chloride	A	A	A	A*	A	A	A	C	A	Sodium nitrate	A	A	A	A*	A	A*	A	A*	A
Ferrous sulfate	A	A	A	A*	A	A	X	A*	A	Sodium silicate	A	A	A	A*	A	A	A	A	A
Fluoroboric acid, 30-40%	A	A	A	A*	A	A	A	A*	A	Sodium sulfate	A	A	A	A*	A	A	A	A	A
Fluosilicic acid, 20%	A	A	A	C	A	A	A	A*	A	Sodium sulfide	A	A	A	A*	A	A	X	A	A
Formaldehyde, 40%	A	A	A	A*	A	A	A	A	A*	Stannic chloride	A	A	A	C	A	A	A	C	A
Formic acid	A	A	A	C	A	A	A	C	A*	Stearic acid	A	A	X	A*	A	A	A	A	A
Freon 12 (wet)	A	A	A*	A*	A	A	A	C	A*	Stoddards solvent	A	A	A	A*	C	A	A	A	C
Fuel oils	A	A	A	A	C	A	A	A	A	Sulfuric acid, 0-30%	A	A	A	A*	A	A	A	A	A
Furfural	A	A	A	A*	A	C	X	A	C	Sulfuric acid, 30-95%	A	A	A	C	C	A	X	C	A*
Glycerine (glycerol)	A	A	A	A*	A	A	A	A	A	Tannic acid	A	A	A	C	C	A	A	A	A
Heptane	A	A	A	A*	C	A	A	A	A	Tanning liquors	A	A	X	X	A	A	A	A	A
Hexane	C	A	A	A*	C	A	A	A	A*	Tartaric acid	A	A	A	A*	A	A	X	A	A
Hydrobromic acid, 40%	A	A	A	C	A	A	A	C	A	Tetrahydrofuran	C	C	A	A*	A	C	X	A	C
Hydrochloric acid, 0-20%	A	A	A	A	A	A	A	C	A	Toluene (toluol)	A	A	A	C	C	A	A	A	C
Hydrochloric acid, 40%	A	A	A	C	C	A	C	C	A	Trichloroethylene	A	A	A*	C	C	A	X	A	C
Hydrocyanic acid	A	A	X	A*	A	A	A	A*	A	Tricresylphosphate	A	C	X	C	A	A	C	A	C
Hydrofluoric acid, 10%	A	A	C	C	A	A*	X	C	A*	Turpentine	A	A	A	A*	C	A	A	A	A
Hydrofluoric acid, 30%	A	A	C	C	A	A	X	C	A*	Urea	A	A	A	C	A	A	X	A	A
Hydrofluoric acid, 50%	A	A	C	C	A	A	X	C	A	Vinegar	A	A	A	A*	A	C	A	A	A
Hydrofluosilicic acid, 20%	A	A	A	C	A	A	A	A*	A	White liquor (acid)	C	A	X	X	X	C	A	A	A
Hydrogen peroxide, 30%	A	A	A*	C	A*	A	A	A*	A	Xylene (xyol)	A	A	A	C	C	A	A	A	C
										Zinc chloride	A	A	A	A	A	A	A	C	A
										Zinc sulfate	A	A	A	A*	A	A	A	A	A

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



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 poly-
ethylene 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