



## SYPHON PUMPS

MODELS	PRICE CODE NO.
PH10 4A	56-0000A 56-0011C

Refer to Bulletin P-404.

### VERIFY COMPATIBILITY OF PUMP MATERIAL WITH SOLUTION BEFORE USING.

Note: Acceptable chemical resistance is not an implied recommendation of use. Safe handling of chemicals to prevent spillage, damage to equipment, and explosion or personal injury must be avoided and is the responsibility of the user. Refer to page 2 for a chemical resistance table.

#### SAFETY PRECAUTIONS BEFORE STARTING PUMP

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to page 2, chemical resistance data chart for compatibility of materials in pump with solution to be used.
3. Note temperature limitations.
4. Personnel operating pump should always wear suitable protective clothing: face mask or goggles, apron and gloves.

#### BEFORE CHANGING APPLICATION OR PERFORMING MAINTENANCE

1. Wear protective clothing as described in Item 4 above.
2. Flush pump thoroughly with a neutralizing solution to prevent possible harm to personnel.
3. Verify compatibility of materials as stated in Item 2 of Safety Precautions above.

### HOW TO USE A SYPHON PUMP

#### MODEL PH10

Tighten the small top-cap by turning clockwise

and squeeze bellows several times. Continuous flow will start by syphon action. Syphon flow is instantly stopped by opening the small top-cap counterclockwise.

When not in use, the end of the discharge tube is placed in adaptor receptacle allowing drainage back into container.

#### MODEL 4A

Tighten the small top-cap by turning clockwise and actuate bellows in an up and down motion. Continuous flow will start by syphon action. Syphon flow is instantly stopped by opening the small top-cap counterclockwise.

When not in use, the end of the discharge tube is placed in adaptor receptacle allowing drainage back into container.

#### NOTE:

If pumping to a higher level is desired, continuous action of bellows if required.

  **These pumps are not to be used with flammable or combustible liquids.**

## CHEMICAL RESISTANCE TABLE FOR POLYETHYLENE SYPHON PUMPS

Acetaldehyde	N	Chrome alum	G	Magnesium sulfate	G	Sodium chloride	G
Acetic acid 10%	N	Chromic acid (Plating solution)	G	Maleic acid	N	Sodium cyanide	G
60%	N	Cider	G	Mercuric chloride	N	Sodium ferricyanide	G
glacial	N	Citric acid	G	Mercuric cyanide	G	Sodium ferrocyanide	G
Acetone	N	Copper chloride	G	Metallic soaps	F	Sodium fluoride	G
Alcohol, amyl	N	Copper cyanide	G	Methyl acetate	N	Sodium hydroxide 10%	G
Alcohol, butyl	F	Copper nitrate	G	Methyl chloride	N	40%	G
Alcohol, ethyl	N	Copper sulfate	G	Methyl ethyl ketone	N	conc.	F
Alcohol, furfuryl	N	Creosote	N	Milk	G	Sodium hypochlorite	G
Alcohol, methyl 60%	F	Cyclohexanol	N	Mineral oils	N	Sodium hyposulfate	G
100%	N	Cyclohexanone	N	Nickel chloride	G	Sodium metaphosphate	G
Alum	G	Detergents, synthetic	G	Nickel sulfate	G	Sodium nitrate	G
Aluminum chloride	G	Developers, photographic	G	Nitric acid 25%	F	Sodium peroxide	G
Aluminum hydroxide	G	Dextrose	G	50%	F	Sodium phosphate	G
Aluminum sulfate	G	Dibutyl phthalate	N	70%	N	Sodium sulfate	G
Ammonium carbonate	F	Disodium phosphate	F	95%	N	Sodium sulfide, cond.	G
Ammonium chloride	G	Emulsifiers	G	Oxalic acid	G	Sodium thiosulfate	G
Ammonium hydroxide	G	Emulsions, photographic	G	Petroleum (lubricating oil)	F	Soft soap	F
Ammonium nitrate	G	Ether	N	Phenol	N	Stannic chloride	G
Ammonium persulfate	G	Ethyl acetate	N	Phosphoric acid 30%	G	Stannous chloride	G
Ammonium phosphate	G	Ethylene dichloride	N	50%	G	Starch	G
Ammonium sulfate	F	Ethylene glycol	G	95%	N	Stearic acid	G
Ammonium sulfide	N	Ferric chloride	G	Phosphorus trichloride	N	Sucrose	G
Ammonium thiocyanate	G	Ferric sulfate	G	Phosphorus pentoxide	G	Sulfur, colloidal	F
Amyl acetate	N	Fixing solution, photographic	G	Photographic developers	G	Sulfuric acid 10%	G
Aniline	N	Fluorine	N	Photographic emulsions	G	40%	G
Animal oils	F	Fluosilicic acid	G	Photographic fixing solution	G	50%	G
Antimony trichloride	G	Formaldehyde 40%	N	Picric acid	G	60%	F
Barium carbonate	G	Formic acid 50%	N	Potassium bicarbonate	G	70%	F
Barium chloride	G	100%	N	Potassium bisulfite	G	95%	N
Barium hydroxide	G	Glucose	G	Potassium bromate	G	98%	N
Barium sulfate	G	Glycerine	G	Potassium carbonate	G	fuming	N
Beer	G	Hydrobromic acid 50%	N	Potassium chloride	G	Tallow	G
Benzene	N	100%	N	Potassium chromate	G	Tanning extracts	G
Benzene sulfonic acid	N	Hydrochloric acid 10%	G	Potassium cuprocyanide	G	Toluene	N
Bismuth carbonate	G	22%	G	Potassium ferrocyanide	G	Transformer oil	F
Borax	G	conc.	N	Potassium fluoride	G	Trichloroethylene	N
Boric acid	G	Hydrofluoric acid 4%	G	Potassium hydroxide 10%	G	Tricresyl phosphate	N
Boron trifluoride	F	40%	G	Potassium conc.	N	Triethanolamine	N
Brine	G	60%	N	Potassium nitrate	G	Trisodium phosphate	F
Calcium bisulfite	G	conc.	N	Potassium permanganate	G	Turpentine	N
Calcium carbonate	G	Hydrogen peroxide 3%	G	Potassium persulfate	G	Vegetable oils	F
Calcium chlorate	G	90% & up	G	Potassium phosphate	G	Vinegar	G
Calcium hydroxide	G	Hydrogen sulfide	G	Potassium sulfide	G	Water	G
Calcium hypochlorite	G	Hydroquinone	G	Potassium thiosulfate	G	Wetting agents	G
Calcium sulfate	G	Hypochlorous acid	N	Sea water	G	Xylene	N
Camphor oil	N	Lactic acid 10%	G	Silver cyanide	G	Yeast	F
Carbon tetrachloride	N	100%	N	Silver nitrate	G	Zinc chloride	G
Castor oil	N	Lead acetate	N	Soap solution	G	Zinc oxide	G
Chloral hydrate	N	Lead, tetraethyl	G	Sodium acetate	F	Zinc sulfate	G
Chlorine liquid	N	Linseed oil	F	Sodium benzoate	G		
Chlorine water 2%	G	Magnesium carbonate	G	Sodium bicarbonate	G	<b>G - GOOD</b>	
saturated solution		Magnesium chloride	G	Sodium bisulfite	G	<b>F - FAIR</b>	
Chloroform	N	Magnesium hydroxide	G	Sodium bromide	G	<b>N - NOT RECOMMENDED</b>	
Chlorosulfonic acid	N	Magnesium nitrate	G	Sodium chlorate	G	<b>Temperature - up to 140°F.</b>	



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