

# SERFILCO®

**MANUFACTURER OF PUMPS, FILTERS AND  
RELATED LIQUID HANDLING EQUIPMENT**

SERFILCO can help you realize the economic value of clarification and purification of your process solutions and waste streams. Our wide range of pumps, filters, packaged systems, accessories and related control instruments make it possible for you to take advantage of one-stop shopping for all of your liquid handling needs. With modern filtration technology at work in your facility, you can reduce waste, lower your manufacturing costs, and enhance product integrity.

The following pages contain a representative sampling of the many products available from SERFILCO locations in the United States and throughout the world. Our Application Engineers and extensive product line are as close as your phone, FAX or Email.

**SERVING  
INDUSTRY  
WORLDWIDE  
FOR  
OVER  
45 YEARS**

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## PUMPING EQUIPMENT

### VERTICAL CANTILEVER PUMPS\*

Seal-less, bearing-free pumps constructed of CPVC, PVDF, and polypropylene. Used for high temperature chemical service, fume scrubbers, plating, printed circuit board manufacturing and waste solution transfer. Flow rates to 650 GPM (2050 l/min).

### SUMP PUMPS & PUMP STATIONS\*

Pumps constructed of CPVC, PVDF, Cast Iron or 316SS polypropylene in lengths to 12 ft. and flow rates to 1400 GPM (5298 l/min) for pollution containment, waste treatment and chemical handling. Pump stations can employ single or duplex pumping. Options include level controls, motor starters, support plates and reservoirs.

### HORIZONTAL CENTRIFUGAL PUMPS\*

Constructed of CPVC, Noryl®, PVDF, Ryton®, polypropylene, cast iron or 316SS for outstanding chemical resistance and non-metallic solution contact or stainless steel and cast iron for applications requiring metal construction. Long or close coupled direct drive w/ single or double mechanical seal, flows to 1,200 GPM (3785 l/min).

### SELF-PRIMING CENTRIFUGAL PUMPS

Corrosion resistant plastic or stainless steel construction for transferring chemicals, solvents, sludge, slurries and waste for industrial and agricultural applications. Available with electric, air, hydraulic or gas engine drive. Flow rates to 380 GPM (1438 l/min). Long or close coupled.

### SEAL-LESS MAGNETIC DRIVE PUMPS

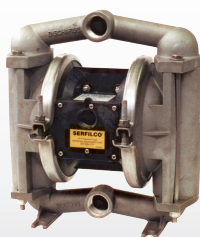
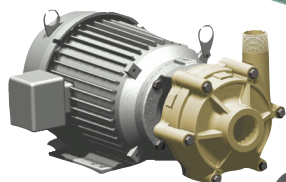
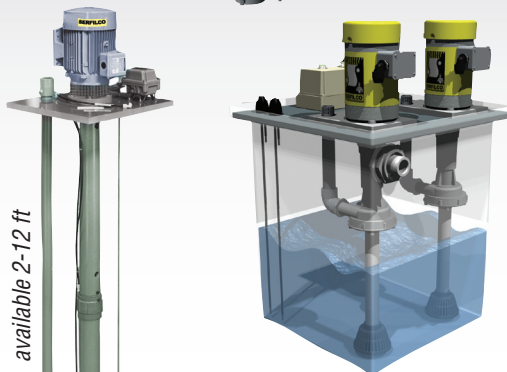
Centrifugal type constructed of polypropylene, ETFE, CPVC or PVDF. Designed for recirculation, transfer pumping and process system filtering of chemicals, solvents and light oils. Flow rates to 330 GPM (983 l/min). Self-priming models available.

### DIAPHRAGM & METERING PUMPS

Air operated, double diaphragm pumps with a choice of metallic or all plastic solution contact to handle any product that pours. Metering pumps provide precise chemical additions for water treatment, plating, cooling towers, etc.

### DRUM, CARBOY, HAND DISPENSING PUMPS & MIXERS

Self-priming for safe transfer of acids, alkalies, solvents and various chemicals from drums, carboys, tanks, etc. Available in polypropylene, stainless steel or PVDF, with air, open, enclosed or explosion-proof motors. Worm screw style available for high viscosity liquids. Hand operated dispensing pumps for chemicals and solvents. Drum transfer Batch control systems.





# FILTRATION EQUIPMENT

## FILTRATION AND PURIFICATION CHAMBERS AND SYSTEMS\*

In-line housings constructed of plastic, rubber-lined steel, stainless steel or carbon steel. Operating pressures to 300 PSI, ASME code design and custom models. Designed for depth wound, high solids loading cartridges. Capacities from 1 to 2600 cartridges or for use with discs, sleeves or bags. Granular carbon and ion exchange chambers for efficient organic removal are also available.

Complete filter systems for aqueous, chemical, and electroplating solutions

## STEP DOWN FILTRATION

The art of filtration often requires for a single vessel to employ a specific media to accomplish a desired clarity. However, when type, size and amount of solids are identified, the application may require coarse screening, multi-media (sand), cartridges and finally reverse osmosis or ultra filtration. Using this approach flow rates from laboratory pilot requirements to thousands of gallons per minute can be achieved.

## REPLACEMENT MEDIA

We stock depth wound, membrane, pleated paper, porous stainless and custom cartridges suitable for most filter vessels. Cartridges are offered in 4" to 40" lengths and from sub-micron to 200 micron retention. Bulk and carbon cartridges, Fuller's Earth, bags, discs and disc sets are also available. We also stock a wide variety of roll-media for gravity filtration systems.

## AUTOMATIC FILTRATION SYSTEMS

Fully automatic backwash systems for filtration and polishing of many liquids including cleaners, plating solutions or treated waste streams. Systems utilize permanent media. Flow rates to 500 GPM (1892 l/min).

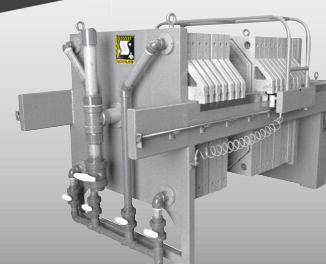
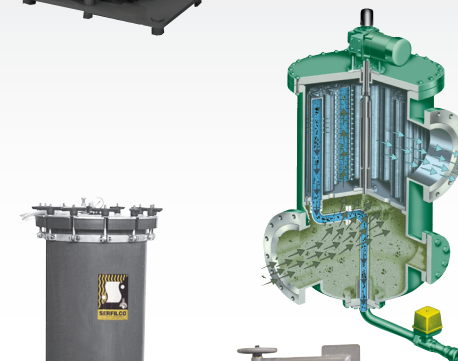
## AUTOMATIC INDEXING FABRIC FILTERS

Filters provide efficient solids-liquid separation. Automatic indexing of filter media permits uninterrupted flow of solution from process to filter. Recommended for machine oils, tool coolants, treated waste solutions, industrial waste water, cooling tower water, fume scrubbers, water wall paint overspray, and other industrial process applications. 1.5 to 113 sq. ft. filter area.

## FILTER PRESSES

For dewatering wastes and municipal sludges, reclamation of solids, clarification and recovery of chemicals and costly solutions. Recessed, gasketed polypropylene plates with air operated hydraulic closure. Standard models to 50 cu. ft. Larger sizes available upon request.

\* Custom models available for OEM applications



## **FILTRATION EQUIPMENT (cont'd)**

### **HYDRAULIC, LUBRICATING & TURBINE OIL FILTERS**

Units are designed to remove abrasive contaminants and moisture from reservoirs or for transfer pumping of hydraulic, lubricating or turbine fluids. They can also be used for maintaining high clarity in hydraulic oils used for injection molding and die cast machines. Stationary and portable models are available. All models use throw-away filter cartridges. Optional coalescing chambers are available for separating water/oil mixtures.

### **RECONDITIONING & RECOVERY STATIONS**

Salvage contaminated coolant, lubricating and screw machine oil, hydraulic oils, and other special fluids. Oil reconditioning stations remove sludges, water and other suspended foreign material through natural settling action accelerated by controlled elevated temperatures and filtration.

### **LIQUID / LIQUID COALESCERS**

Systems remove oils from rinse waters, cleaning solutions, plating solutions or waste effluents. They can also be used to separate water or tramp oil from hydraulic fluids and machining coolants. All systems include a pre-filter chamber to protect and extend the life of the coalescing element.

## **ACCESSORIES**

### **pH, TDS & FLOW METERS, CONTROLLERS, RECORDERS**

A complete line of pH meters for use in the addition of acids and bases to solutions for neutralization or process control. Conductivity meter for conserving water measures level of contamination, adjusts fresh water flow to rinse tank. Flow control devices to monitor or control solution flow.

### **LEVEL CONTROLS**

Mechanical float switches provide the ability to control solutions at either high or low levels to prevent overflow condition or dry run operation, respectively. Models are available for pump or remote mounting.

### **IMMERSION HEATERS**

For heating plating baths and virtually all acid or alkaline solutions. Over-the-side or L-shaped. Quartz, stainless steel or TFE. Protector device cuts off power in case over-temperature condition occurs.

### **COMPRESSED AIR FILTERS / COALESCERS**

For use in end application areas wherever dry air, free of oil and particles is required. Provides low dew points and acid elimination. Models also available with carbon for removal of finely dispersed oil, smoke and odors.

### **AMP-TIME INDICATORS & BRIGHTENER CONTROLLERS**

For monitoring and recording brightener usage and, when required, for the efficient addition of chemical brighteners to plating baths.

### **SER-DUCTORS**

Provides agitation with a centrifugal pump by drawing water from the tank or basin and returning it through a sparger system. It effectively distributes the desired level of agitation to critical areas.

When used for mixing, the SER-DUCTOR system creates sufficient movement to eliminate solution stratification without the introduction of foreign matter.



Registered trademarks: Noryl - General Electric, Pyton - Phillips Chemical



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