

FILTER PUMP

PUMPS, CHAMBERS, FILTER SYSTEMS



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VERTICAL PUMPS



MODEL PS

- Self-priming when immersed in solution
- In-tank mounted
- PTFE vapor seal
- Motor stand-off
- Handles solids up to 1/8" (3.1 mm) diameter
- Added strength of stainless steel

MODEL PHF

- Easy installation
- Chemical resistant
- Extended pump lengths
- Corrosion-resistant epoxy paint
- Positive displacement air purge vent
- Handles solids up to 1/8" (3.1 mm) diameter



MODEL PX

- Motor fan cover with drip shield
- Standard TEFC epoxy-coated motor
- Air purge plug
- One-piece stainless steel rotor shaft assembly. (Optional) 316 S.
- Titanium shaft available on most models (1/3 hp-15 hp)
- FKM vapor seal/fume barrier assembly
- Overflow/vent port
- Handles solids up to 1/8" (3.1 mm) diameter

MODEL P VERTICAL PUMPS



P-3

P Series

- Easy installation
- Chemical resistant
- Extended pump lengths
- Self-priming when immersed
- Corrosion resistant epoxy paint
- Choice of CPVC, PVDF, or polypropylene
- Positive displacement air purge vent port on P-1/4 or larger models
- Optional flange



P-1/15-IEC



P-1/6-IEC



P-1/4



P-2

CENTRIFUGAL PUMPS



HSC SERIES

316 Stainless Steel Pumps

- Flows to 140 gpm (31.8 m³/h)
- Corrosive-resistant, all-purpose 316L stainless steel
- Handles most acids and alkalis as well as solvents to 250°F (121.1°C)
- Produces up to 90 ft (27.43 m)



MTD SERIES

Sealless Mag-Drive Pumps

- Flows to 240 gpm (54.5 m³/h)
- Corrosion resistant
- Constructed of polypropylene and/or PVDF and can handle caustics to 220°F (104.4°C)
- Compatible with a wide range of acids and alkalis



SP SERIES

Self-Priming Sealless Mag-Drive Pumps

- Flows to 253 gpm (57.5 m³/h)
- Constructed of polypropylene and/or PVDF to handle the most difficult applications
- Suction lift up to 25 ft (7.6 m) in 90 seconds

CHAMBERS-FILTER CARTRIDGE



3C-1A

3C-1B

3C-1C

3CN-1A



4C-1A

4C-1B

4C-1C

4CN-1A

3C/3CN/ 3CT CARTRIDGE CHAMBERS

- Available in CPVC, natural polypropylene, and natural PVDF
- Will accommodate 6" (15.2 cm), 10" (25.4 cm), 20" (50.8 cm), or 30" (76.2 cm) single cartridge, DOE configuration
- No center tube rod, no 10" (25.4 cm) cartridge stacking inside a 20" (50.8 cm) or 30" (76.2 cm) filter chamber
- Compressor rubber ball design provides a ¼" (6.3 mm) cartridge length variance
- Chamber top is threaded onto the chamber shell via an ACME thread configuration
- FNPT in lieu of MNPT inlets/outlets are employed to eliminate the breaking of MNPT inlet/outlet nozzles
- 3C chambers are mounted out-of-tank using the provided square baseplate or mounted on an extended pump bracket with no baseplate (Series A-A filter systems)
- 3CN chambers are mounted in-tank using a B-mount bracket (Series A-B filter systems)
- 3CT chamber is a 3C chamber with a carbon tube installed in lieu of a string particulate filter

4C/4CN/4CT CARTRIDGE CHAMBERS

- Available in CPVC, natural polypropylene, and natural PVDF
- Accommodates one 10" (25.4 cm), one 20" (50.8 cm) (or two 10"), or one 30" (76.2 cm) length filters; **Note:** can also do two 10", three 10", or one 20" and one 10" length filters
- Provides a cartridge length variance of +/- ¼" (6.3 mm)
- The chamber top is threaded onto the chamber shell via a Dardelet thread
- 1" (2.5 cm) FNPT inlet/outlet connections in and the 4" (10.2 cm) chamber diameter allow for increased flow rates, larger O.D. cartridge, and eliminates the possibility of broken NMPT connections
- Accepts DOE & SOE-222 configurations with SOE cartridge hold down plates
- 4C chambers are mounted out-of-tank using its built-in mounting base plate
- 4CN chambers are mounted in-tank using B-mount bracket (series A-B filter systems)
- 4CT chamber is a 4C chamber with a carbon tube installed in lieu of a string particulate filter

STAINLESS STEEL CHAMBERS & SYSTEMS



SINGLE ROUND CARTRIDGE CHAMBERS

- 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (101.6 cm) lengths
- 2½" (6.4 cm), 2¾" (7 cm), 4½" (11.4 cm) diameter cartridges accepted in many models
- DOE knife edge sealing or optional SOE configurations available
- Variety of O-rings available
- Operating pressures to 300 psi (20.7 bar) @ 200°F (93°C)
- ¾" (1.9 cm), 1" (2.5 cm), 1½" (3.8 cm) FNPT inlet/outlet, top, available
- Inline mounting bracket provided
- Gauge ports, drains, air vents available

SS CHAMBER w/SS PUMP

- 150 psi (10.3 bar) @ 200°F (93°C)
- Side entry
- Standard #1 or #2 filter bags or single 6" (15.2 cm) OD
- Eye bolt closure
- Air diaphragm pump: max flow rate 54 gpm (12.3 m3/h)
- Suction and discharge size: 1" X 1" (2.5 cm x 2.5 cm)



SS CHAMBER w/AODD PUMP

- 150 psi (10.3 bar) @ 200°F (93°C)
- Side entry
- Standard #1 or #2 filter bags or single 6" (15.2 cm) OD
- Eye bolt closure
- Air diaphragm pump: max flow rate 54 gpm (12.3 m3/h)
- Suction and discharge size: 1" X 1" (2.5 cm x 2.5 cm)



CARTRIDGE BAG/FILTER CHAMBERS



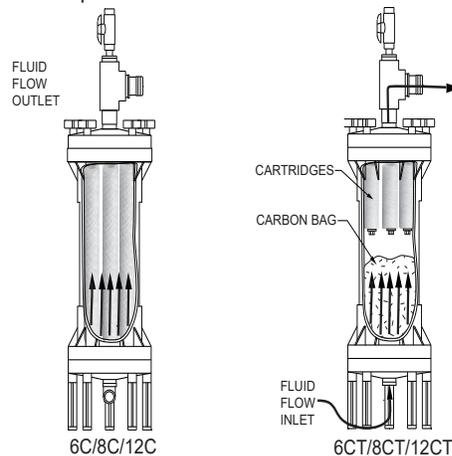
Model 8CBK CPVC



Model 8CBK POLY

Style 6CBK/8CBK FILTER BAG CHAMBERS

- Available in two sizes: #1 and #2 bags
- Four materials of construction: CPVC, PVDF, Pro 150, Polypropylene
- Filter bag is attached to an adaptor head inside the chamber without a support cage or basket
- Designed primarily for non-critical pre-filtration
- Chamber includes a support cage for the filter bag
- Side entry inlet/side entry outlet or side entry inlet/bottom outlet configurations
- Joining techniques used are butt fusion and heat welding



Model 12C-36A Model 8C-10A Model 6C-9A

Style 6C/6CN/8C/8CN/12C/12CN FILTER CHAMBERS

- Heavily ribbed and reinforced tops and bottoms, long sleeved flanges, and double labyrinth O-ring or Quad-Ring® sealing
- External frame rods and swing bolts have been eliminated
- Can be custom manufactured.
- Inlet and outlet nozzles can be increased in size
- Available in CPVC, natural polypropylene, PRO150 high temp polypropylene, and natural PVDF.
- Joining techniques used are solvent cement, sonic welding, butt fusion, and welding.
- Available in 3, 5, and 12 round, 1, 2, 3, and 4 high
- Accepts DOE and SOE-222 configurations with SOE cartridge hold-down plates
- Out-of-tank mounted 6C/8C/12C chambers or in-tank mounted 6CN/8CN chambers using B-mount bracket (series A-B filter systems); **Note:** 6CN/8CN chambers have similar features to the 6C/12C chambers, but not all features are the same; the major difference is the chamber bottom is solvent cemented to the bottom end of the chamber shell/flange assembly



Model 12CT-36A Model 8CT-10A Model 6CT-9A

Style 6CT/6CT/8C/12CT CARBON CHAMBERS

- Available with activated carbon cartridges in 3, 5, and 12 round, post carbon filtration bulk granular activated carbon models ranging in size from 3-6" post filters/5 lbs GAC (7.62-15.24 cm/2.3 kg GAC) to 10-12" post filters/65 lb GAC (25.4-30.48 cm/29.5 kg GAC)
- Bulk carbon chambers employ a refillable, reusable polypropylene mesh bag, a perforated flowplate, and 3 micron polypropylene string post filters
- The flow is bottom in/top out
- Employ many design features and benefits of series 6C/8C/12C cartridge chambers

FILTER SYSTEMS



CTL SERIES

- Filtration flow capacities of 10,800 gph (41 m³/h)
Carbon treatment flow capacities to 2400 gph (9 m³/h)
- Dual filtration and carbon treatment systems available in various combinations from the simplest pump-filter combination to individual customer designed systems
- Piping combinations offered, including drain, vent, or bypass valves
- Tanks are available for mixing, priming, or slurry addition
- Dual chambers are manifolded in parallel with a valve system to permit simultaneous or alternate, independent or intermittent operation



MF SERIES

Magnetic Drive Pump/Filter Systems

- Flows to 3,600 gph (14 m³/h)
- Sealless magnetic-driven polypropylene pump in all polypropylene or PVDF systems
- CPVC chamber available on request
- No metal contact with solution



SM SERIES

Spacemaker Filter Systems

- Flows to 1,400 gph (5.2 m³/h)
- Ultra compact and ultra efficient sealless magnetic-drive polypropylene pump and filter chamber with no metal contact
- Excellent for acids and alkalines
- CPVC or polypropylene chambers available



BF SERIES

Bag Filtration Systems

- Recommended for tanks 50-200 gal (189-757 L)
- CPVC or polypropylene chambers available
- Enables electroless nickel baths to be turned over rapidly
- Material in contact with solution is CPVC including piping, fittings, and vertical sealless pump

A SERIES FILTER SYSTEMS



A-3600 **Series A** **In-Tank Pump/Outside Filter Chamber**

- Flows to 10,000 gph (38 m³/h)
- In-tank pump with out-of-tank filter chamber
- No metal contact
- Excellent for acid and alkaline solutions
- CPVC, PVC, polypropylene, or PVDF construction available



A-900BXL **Series A-A/A-B** **In-Tank Filter Systems**

- Flows to 2,150 gph (8.1m³/h)
- Pump and filter chamber mounted together as a compact unit
- Excellent for precious metal
- No possible solution loss
- No metal contact
- CPVC, polypropylene, or PVDF construction available



A-SF **Series A-SF** **In-Tank Suction Filter Systems**

- Self-priming CPVC suction filter
- Inexpensive
- Compact, portable system pumps, filters, and agitates
- Optional handle

PRECIOUS METAL RECOVERY SYSTEMS

PRECIOUS METAL RECOVERY SYSTEMS

Series SR

- Recovers up to 99% of precious metals loss
- Tanks smaller than 50 gal (189.3 L)
- Rinse water clarification and purification
- Low initial cost
- Rapid payback averaging 30 days
- Depth pre-filtration available
- Longer resin life - less frequent changeouts



PRECIOUS METAL RECOVERY SYSTEMS

Series MR

- Recovers up to 99% of precious metals loss
- Tanks to 400 gal (1,514.2 L)
- Rinse water clarification and purification
- Low initial cost
- Rapid payback averaging 30 days
- Depth pre-filtration available
- Longer resin life - less frequent changeouts

MIXERS

TOTE AND DRUM MIXERS

Series PM

- 316SS or polypropylene sleeved shafts
- 316SS / polypropylene propellers
- 4 mounting configurations
- Economical and efficient
- Polypropylene turbines
- Tote and drum use
- 304SS couplings
- Portable



Air Drive



PENDUCTORS



PENDUCTOR

Series PE

- Custom colors available on request (consult factory)
- 3 sizes available: 3/8" (9.5 mm), 3/4" (19 mm), 1" (25.4 mm)
- Lower profile helps save valuable tank space and makes for easier retrofits
- Larger connection sizes eliminate the need for multiple bushings when using standard fittings or our P-series pumps
- Larger plume dispersion angle helps eliminate dead spots between eductors
- Maximum temperature 280°F (137°C) (PVDF)

PENDUCTOR SYSTEM

Series PES

- Available as systems with pumps, kits, or Penductors sold separately
- Deluxe model includes adjustable nozzles
- Non-metallic contact with solution
- Perfect for large tank usage
- Induces four extra gallons of flow for every gallon pumped through nozzle
- Used to enhance circulation in a wide variety of recirculating process tanks



FILTER MEDIA



CARBON

- Organic impurity removal non-contaminating
- Choice of packed granular or impregnated powder carbon cartridges
- High-grade activated carbon standard filter cartridge replacement



PLEATED

- Nominal and absolute particle retention ratings
- Superior flow characteristics
- High dirt holding capacity
- Many lengths and cartridge styles
- Low clean differential pressure drops



STRING WOUND

- True depth filtration
- Wide choice of porosities
- Various core and wind material
- chemical and temperature compatibility



BAGS

- ½ to 200 micron
- Low cost
- High loading depth filter
- Choice of rings or drawstrings to fit any type vessel or application
- Offered in sined or glazed finishes to help fiber migration and downstream contamination



MESH BAGS

- Operates on the principle of surface filtration
- Wide range of micron ratings
- Reusable or disposable
- Non-fiber releasing
- High contaminant quantities under optimum conditions



OIL-ABSORBING BAG

- Easy to use
- Easy to clean
- Hydrophobic media
- Environmentally friendly
- Re-usable up to 20 times
- For use in both alkaline and acid-based cleaners, as well as soak, electro, and pre-treatment cleaners

TOOLS & ACCESSORIES



SERIES PGG

Pressure Gauge and Guards

- **Choice of material:** CPVC, natural polypropylene, or natural PVDF
- **Diaphragm:** FKM or EPDM
- Maintains system purity; no possible leakage
- No clumsy metal fasteners
- Impermeable diaphragm with integral O-ring bleed port for filling to help eliminate air
- Flats on both threaded fluid chambers for proper tightening
- No metal contact with solution



Controller



Pump Bases



Round Base



Square Base



Rectangle Base



T-Handle-Nob Remover



Pump Starter



Impeller Wrench



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