

# Cleaning

Cleaning should be weekly and should result in removing 10% of the pond water.

**Turn Three Way Valve for input from Bottom Drain.**

**With pump running in filter mode open top challenger vent to remove all air.**

**Note**, if there is air in the Challenger you may flush some bio beads down the drain when you open the bottom drain.

**Then open challenger bottom drain until water is clear in Drain Sight Glass (DSG).**

**Clean Pump Filter Basket.**

**Clean Turbo Vortex Filter** (on the right)

Pump off

Beed Filter (on the left) Multiport Valve Closed

Open Turbo Vortex Discharge Valve

Set Turbo Vortex multiport valve to Backwash (do this by pulling the rod upward)

Pump High until (DSG) is clear

Pump off

Close Turbo Vortex Discharge Valve

Set Turbo Vortex multiport valve to Filter (push the rod downward)

**Bouncing the Beads** (do this once ever 60 days to break up the packed beads)

Move Turbo Vortex Multiport Valve to Closed

Turn Pump off. Bead filter Multiport Valve - Backwash if the blower is piped directly into the Challenger container. Preferred Rinse if the blower is piped to Challenger Multiport Valve.

Run blower for 2 minutes (until water stops in DSG)

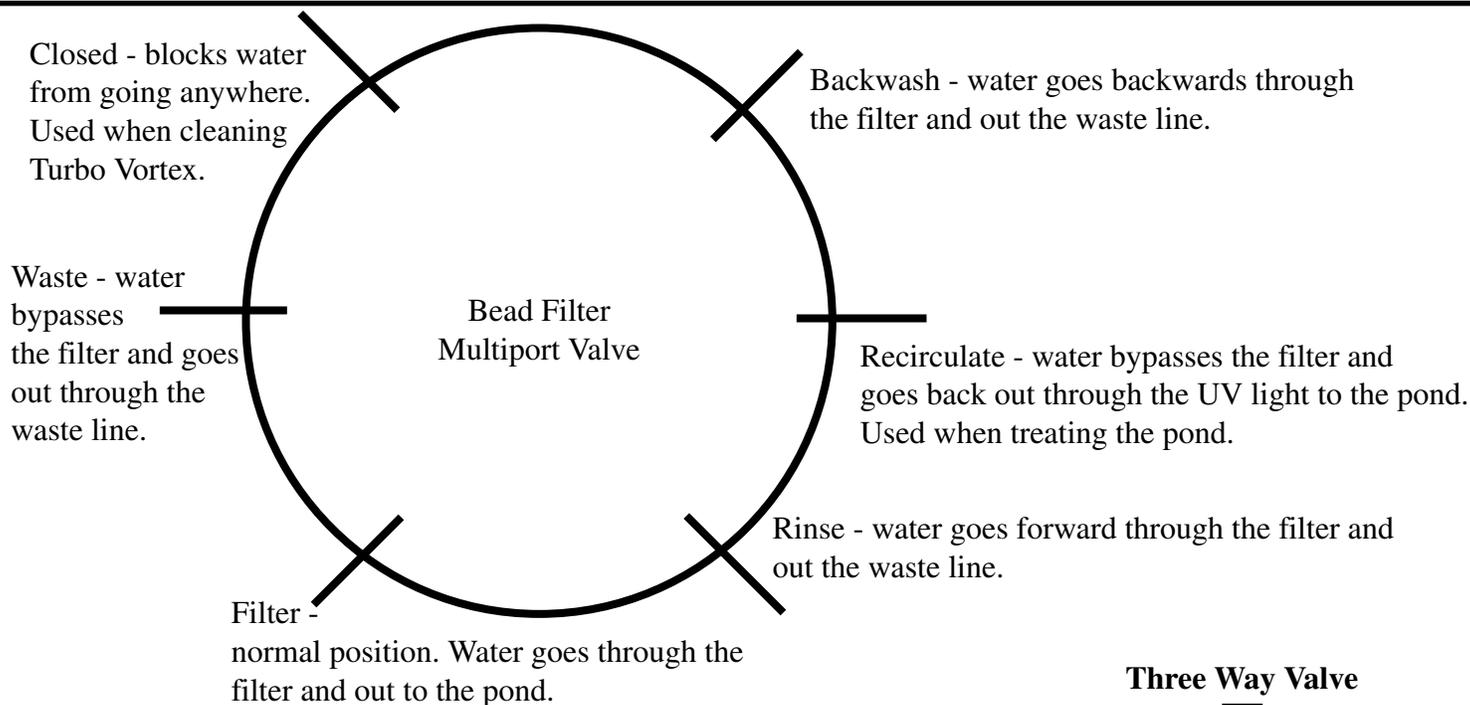
Move Turbo Vortex Multiport Valve to Filter

**Clean Bead Filter** (on the left)

Pump	Bead Filter Multiport Valve	Time
high	Waste	Until pump has good prime
high	Backwash	Until DSG is clear
high	Rinse	Until DSG is clear
low	Filter	

**Bleed air from both top of beed filter and output of UV light.**

**After pond is full turn Three Way Valve for input from Skimmer.**



FluidArt Technologies  
8100 N. Classen Blvd.  
Oklahoma City, OK 73114  
Phone (800) 493-0997  
Fax (405)848-3359

July 12, 2000 - Purchased Challenger 60 Ultimate System which includes, Bead Filter Challenger 60 with blower, Turbo Vortex, Optima UV-10 Light, 1 horsepower 2 speed pinnacle pump 110V. Input and Output 2" Sch. 40 pipe.

