



PROFESSIONAL WATER SYSTEMS, INC.

WATER TREATMENT SPECIALISTS

AUTOMATIC WATER FILTERS

Performa™ Filter Valves

Engineered for simple, straightforward, fully automatic filtering, the hardy Performa filter valve features:

- Exceptional backwash flow rates up to 20 gpm
- Ability to handle the heaviest filter media
- Rugged three-cycle filter control valve

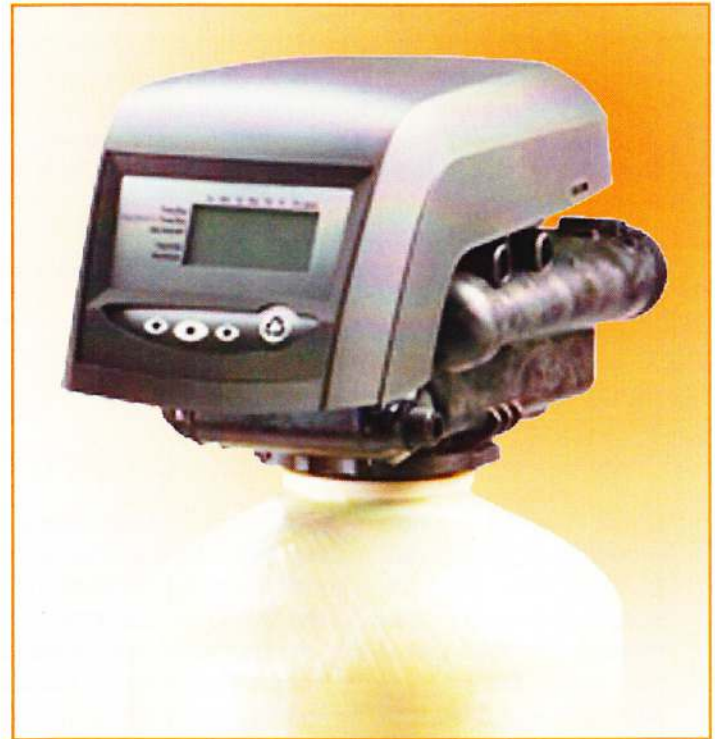
Its impressive service and backwash flow rates, along with its simple design, make the Performa filter valve an outstanding value and the perfect valve for home and light commercial applications.

All of our high-quality valves:

- Are constructed of a durable, corrosion-resistant Noryl™ plastics
- Have a heat-welded body that is 100% tested prior to shipment
- Feature the unique and reliable Duraflow™ valve-disc technology
- Feature modular design for easy access to components
- Have self-cleaning ball-and-seat flow controls for consistent flow rates through a wide water pressure range
- Bypass water available during regeneration
- Come with an outstanding five-year limited warranty

The simple design and construction of our residential valves ensure maximum reliability and performance.

Using a fiberglass vessel and high flow distributor offers a corrosion resistant system that comes with a 10-year limited warranty.



TASTES & ODORS

CORROSION

SEDIMENT

IRON/MANGANESE

TASTES & ODORS

CENTAUR™ GRANULAR ACTIVATED CARBON (GAC)

GAC is light weight highly porous media used primarily for the reduction of hydrogen sulfide, chlorine and other dissolved gases which can add to the taste and odor of water. Centaur GAC is produced from bituminous coal in a patented process creating a highly catalytic functionality.

CORROSION

CALCITE

Calcite is a naturally occurring calcium carbonate media. When properly applied, it corrects pH only enough to reach a non-corrosive equilibrium. Upon contact with Calcite, acidic waters slowly dissolve the calcium carbonate to raise the pH which reduces the potential leaching of copper, lead and other metals found in typical plumbing systems. Periodic backwashing will prevent packing, reclassify the bed and maintain high service flow rates. Depending on pH, water chemistry and service flow, the Calcite bed will have to be periodically replenished as the Calcite is depleted.

As the Calcite's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter.

SEDIMENT

FILTER-AG®

Clack Filter-Ag is a non-hydrous silicon dioxide media which can be used as highly efficient filter media for the reduction of suspended matter. Filter-Ag fractured edges and irregular surface provides a high surface area and complex flow path for efficient removal of suspended matter throughout the filter bed, typically reducing suspended solids down to the 20-40 micron range. Filter-Ag's larger particle size creates less pressure loss through the filter and allows deeper sediment penetration into the bed for higher sediment loading and longer filter runs. Filter-Ag's light weight means lower backwash rates and better bed expansion to release trapped sediment and rinse the filter media during the backwash cycle.

IRON/MANGANESE

MTM®

Clack MTM is a granular manganese dioxide filtering media used for reducing iron and manganese from water. Its active surface coating oxidizes and precipitates soluble iron and manganese. The precipitates are filtered out in the granular bed and removed by backwashing. MTM consists of a light weight granular core with a coating of manganese dioxide. The coating provides an example of contact filtration where the media itself provides the oxidizing potential. When the oxidizing power of MTM is reduced, the bed has to be regenerated with a weak solution of potassium permanganate (KMnO₄), thus restoring its oxidizing capacity.

Professional Water Systems brings homeowners the best and logical choice in residential and small commercial water treatment systems. Featuring the Autotrol Performa series valve with Logix series controllers, it offers high performance, high efficiency, and reliable operation that sets the standard in the industry.