VMS Series Vertical Steel Multi-Media Filter

Features & Specifications

- Typical Suspended solids filtration down to 15 micron
- Standard All Welded Steel vessel construction with epoxy lining and epoxy/urethane exterior finish
- Filament wound FRP construction optional for corrosion resistance or small diameter filters (<3’)
- Pneumatically actuated diaphragm valves for resistance to fouling and positive shutoff
- Triplex piping consisting of schedule 80 PVC, fittings and valves
- Elliptical manways on top & side of each vessel over 3’ diameter for easy access & media replacement
- Manual isolation valves on each vessel to allow maintenance or media changeout while system continues to operate
- Backwash flow control globe valve & flow meter to minimize backwash flow and volume while maintaining adequate backwash
- Self source backwash requires no outside backwash source or BW holding storage
- Fully automatic operation for either self source or outside source backwash
- Continuous operation during backwash process

Applications

- Filtering suspended solids from groundwater, wastewater, process water or drinking water
- Excavation dewatering
- Protecting liquid LGAC, activated clay or resin beds from fouling by suspended solids
- Precipitated iron removal
- Drinking water tertiary filter
- Protecting air strippers from fouling due to suspended solids
- Industrial waste and process water

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Options

- Stainless Steel Construction
- ASME Designed & Stamped steel construction
- Filament Wound Fiberglass Re-enforced Plastic construction on larger vessels for corrosion resistance
- Chemical metering for pH, floc agents, and oxidizing agent