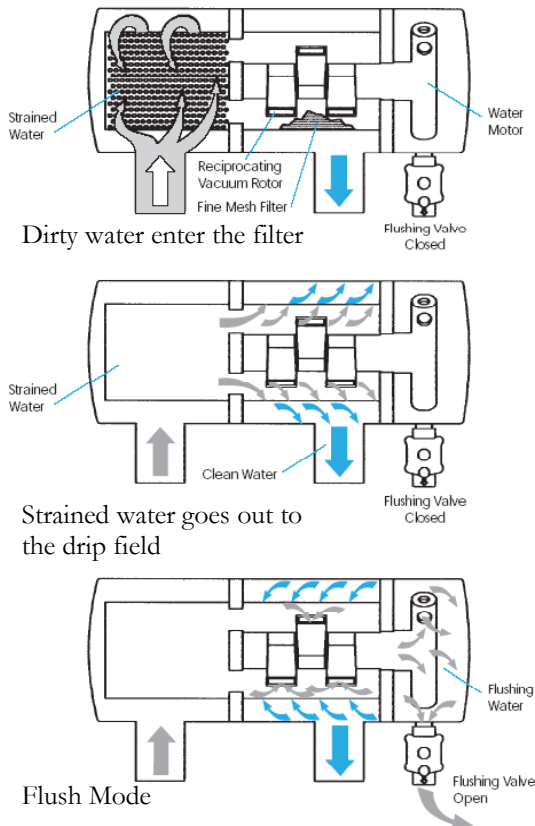


## Description

The GeoVac is a stainless steel filter with an automatic, self-cleaning, screen-type water filter for heavy loads of onsite wastewater.



## Filtering Mode

Pressurized water enters the filter inlet and travels through a fine stainless steel screen where contaminants are filtered out. The clean water passes through to the inside of the screen, then out to the drip field.

## Flush Mode:

A solenoid flush valve is time activated. When the flushing valve opens, the pressure differential is reduced on the area being swept by the reciprocating cleaning nozzles. This causes the clean water to reverse flow through the filter element as the cleaning nozzles rotate across the entire surface of the screen, pushing contaminants off the screen, through the nozzles, through the water motor and out through the flush valve.

The water passing through the angular holes in the motor creates a torsion rotation of the nozzles, thus vacuuming the entire inside diameter of the filter element.

At the end of the flushing cycle, the unit automatically returns to full filtering mode.

During the filter flush cycle the filtration process continues uninterrupted.



6" or 8" Filter with flanged connections

## Features:

The GeoVac avoids the danger of forcing contaminated water back into the system. The GeoVac filter will deliver clean water or no water. The entire filter flushing mechanism and fine screen assembly is modular and can be removed from the filter body without having to detach the filter from supply and delivery manifolds.

## Specifications:

Materials for 2" GeoVac

Tank:  
Vacuum Motor and nozzle assembly  
Filter Screen

Stainless steel. Type 304, 18-gauge  
Glass-filled Noryl  
3-layer sintered stainless steel. Type 316

Materials for 3", 4", 6", 8" GeoVac

Tank:  
Vacuum Motor and nozzle assembly  
Filter Screen

Stainless steel. Type 304, 18-gauge  
Engineered grade polymer  
3-layer sintered stainless steel. Type 316

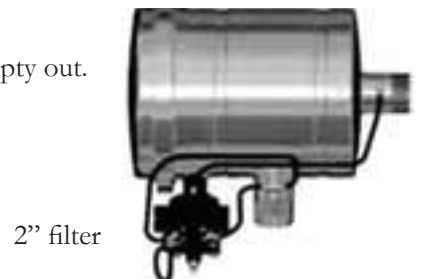
	Model/Part No.				
	GeoVac 75-02	GeoVac 150-03	GeoVac 250-04	GeoVac 500-06	GeoVac 700-08
Inlet/Outlet diameter (inches)	2"	3"	4"	6"	8"
Inlet/Outlet connection	Vitronic	Vitronic	Vitronic	Flange	Flange
Max. flow rate (gpm)	75	150	250	500	700
Filter flush min. flow (gpm)	30	40	40	40	50
Filter flush min. time (seconds)	6	10	10	20	20
Min. downstream working pressure (psi)	35	35	35	35	35
Max. working pressure (psi)	125	125	125	150	150
Pressure loss at 125 gpm	.75psi/1.73 ft.	3psi/6.93 ft.	3psi/6.93 ft.	3psi/6.93 ft.	3psi/6.93 ft.
Screen area (inches <sup>2</sup> )	118	224	448	867	1300
Screen sizes    Micron	100	100	100	100	100
Mesh	150	150	150	150	150
Max. Temperature (F°)	180	180	180	180	180
Filter housing diameter (inches)	10"	10"	10"	15"	15"
Flushing outlet diameter (inches) NPT	1"	1"	1"	2"	2"
Supplied with flush valve	1.5"	1.5"	1.5"	2"	2"
Weight (lbs.)	30	55	80	395	435
Length (inches)	16.7"	39.2"	49.4"		
Min. clearance req. on lid end	36"	36"	36"	56"	70"
Min. clearance req. on sensor end	12"	12"	12"	12"	12"

**Installation:**

- Flush valve should be placed on the discharge nipple with the arrow pointing downwards.
- The tank can rest on the inlet/outlet nipples or can be mounted on a stand.
- Check the connections on the manifold or stand to make sure they are on the same plane. If improperly aligned, when the filter connections are tightened, this could distort the tank.
- The back flush line should not run uphill. This will reduce the required backpressure differential and reduce the cleaning effectiveness.

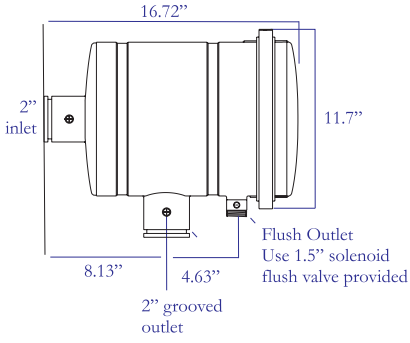
**Maintenance:**

- Manully clean filter element periodically.
- Clean and grease all o-rings with waterproof lubricant
- Check welds and hydraulic connections.
- Before servicing filter internals, slowly open the filter flush valve and allow the filter to empty out.
- Make sure pump is on manual off so it does not pressurize while servicing.
- Ensure bolts and nuts of covers and all connections are uniformly tightened.

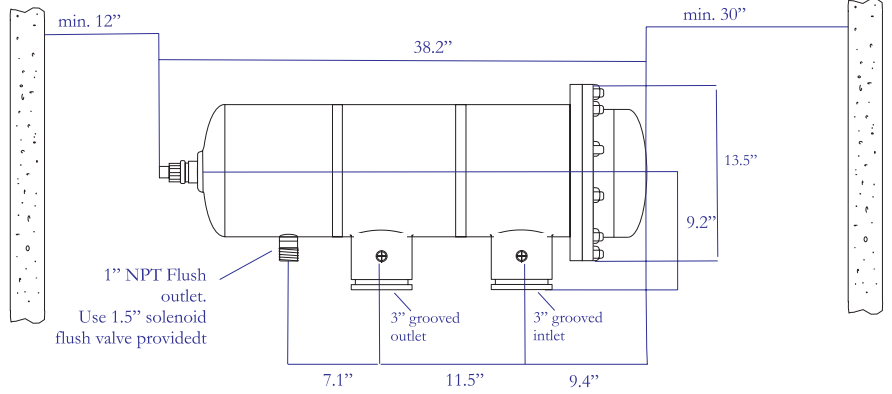


## GeoVac Dimensions

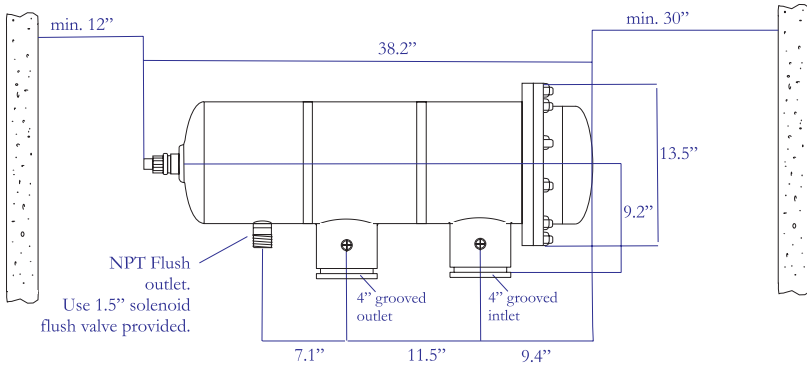
### GeoVac 75-02



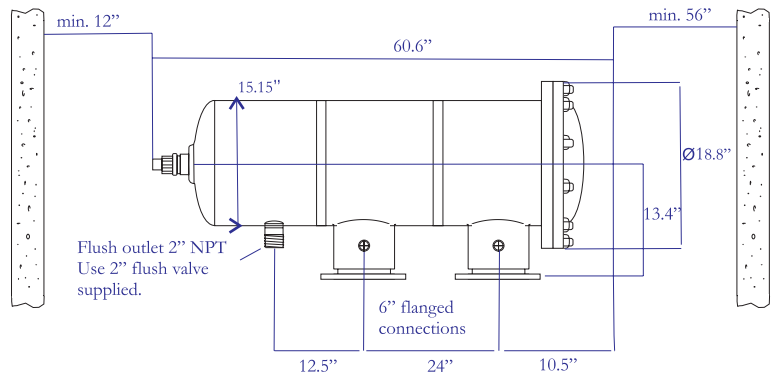
### GeoVac 150-03



### GeoVac 250-04



### GeoVac 500-06



### GeoVac 700-08

