

**REPLACE** Leaking or Obsolete Filters...



BEFORE



AFTER

**...With Drop-In Filter Assemblies**

NOTE: Bolt-In replacement for L configurations also available.

Call VAF for details and receive a Lifetime Warranty to Never Leak.

# VAF

Filtration Systems™



FREE: "How it works" DVD  
Go to [www.valveandfilter.com/DVD](http://www.valveandfilter.com/DVD)  
to see the V-Series' Simplicity in action.



- Simplicity Minimizes Maintenance
- 316L Stainless Steel Construction
- Lifetime Body Warranty to Never Leak

**NO** Lubrication or Packing Seals

**NO** Electric Motors or Limit Switches

Simplicity with Efficiency all combined to provide the most cost effective filtration systems available.

Bolt-in replacement for L configurations



The Source for ALL Your Filtration Needs ...

The Choice is Clear... Valve and Filter.

**VAF** Filtration Systems  
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VAF Irrigation, V2 • 2500 • 11.2011

## V-SERIES AUTOMATIC SCREEN FILTERS



Filtration Systems for  
**Irrigation**

# VAF

Filtration Systems™



**"Wherever Water Flows"**

## Features / Benefits / Applications

### Removes organic and inorganic particulate including:

- Sand
- Silt
- Algae
- Mollusks
- Small aquatic species
- All other suspended debris

### Irrigation Applications

- Tape Systems
- Drip Emitters
- Micro Sprinkler
- Center Pivots
- Landscape
- Golf

### Hydraulically efficient design resulting in:

- Fewer moving parts (no electric motors, gear boxes, limit switches or pistons)
- Simpler controls
- Lowest flushing flow rates
- Greater cleaning efficiencies
- Lower maintenance requirements

### Cleaning Cycle:

- 10 to 30 Seconds per flushing cycle
- Cycle begins at 7 psi (50 kPa)
- Filtration process is uninterrupted during cycle



Qualifies for LEED

**VAF V-Series™** automatic self-cleaning screen filters are used "Wherever Water Flows" and can remove suspended solids that can cause problems within any irrigation system. Individual filters and pre-assembled filtration systems are used in irrigation applications from golf courses and large turf areas to small parks and micro irrigation systems.

The standard V-Series filters are competitively priced while manufactured in 316L stainless steel to meet ASME Pressure Vessel Code requirements (ASME Boiler and Pressure Vessel Code, Section VIII, Division 1 requirements). In addition, the stainless steel filter bodies come with a **Lifetime Body Warranty\*** against leaks. The patented Bidirectional Hydro Dynamic Drive (BHD Drive) design DOES NOT require - electric motors, limit switches, gearboxes, or hydraulic pistons; thereby eliminating external shafts and seals. The cleaning cycle takes less than 15 seconds and does not interrupt the filtration process.

Visit [www.valveandfilter.com](http://www.valveandfilter.com) and click on the "Play Video" link to see a demonstration of the filter's operation.

### V-Series: State of the Art Automatic Self-Cleaning Screen Filters

The patented BHD Drive improves screen cleaning efficiencies resulting in:

- **100% screen cleaning with controlled suction nozzle rotation**
- **Flush waste is less than 1% of system flow**
- **70% fewer moving parts**
- **Priced competitively against all carbon steel body filters**
- **Individual flow rates from 20 gpm to 5,600 gpm**
- **Pre-assembled filtration systems to meet any flow demand**
- **Filtration 10 to 1500 micron**

\* Lifetime Body Warranty is only valid if VAF has pre-approved and verified the installation of the filter. See VAF standard warranty for all other filter components.

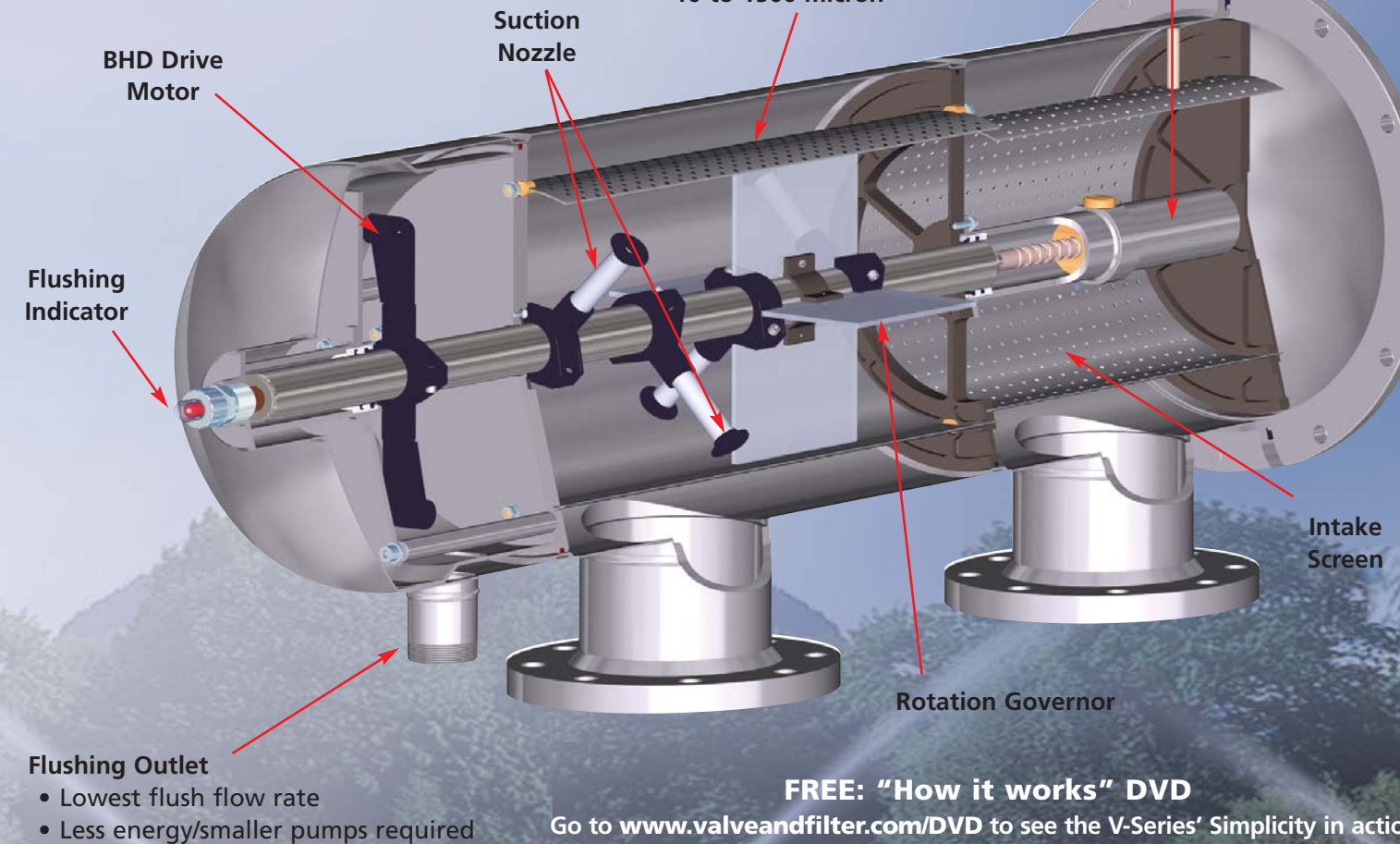
## Award Winning Design

Constructed of 316L Stainless Steel to ASME code - higher grade materials to meet harsher conditions or higher temperature and pressure ranges.

Patented Bidirectional Screw controls nozzle rotation for 100% screen cleaning without electric motors, gear boxes, limit switches or pistons

Uni-weld "Weave-wire" Screen

- 316L stainless steel
- Eliminates screen wear
- Maximizes filtering area
- 10 to 1500 micron



**Flushing Outlet**

- Lowest flush flow rate
- Less energy/smaller pumps required

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## VAF Filtration Systems™ V-SERIES

### General Specifications:

Bidirectional Hydro Dynamic Drive

Max Pressure: 150 psi (1034 kPa)

Min Pressure: 30-35 psi (207 – 241 kPa)

Max Temp: 176°F (80°C)

Flush Cycle: 15 Seconds

Flow Range per Filter: 32 - 5,400 gpm

(7.3 – 1,226 m<sup>3</sup>/hr) per filter

Flange Sizes: 2" to 20" (50 mm to 500 mm)

Screen Options: 10 to 1500 Micron on All Models

Manifold multiple units to increase flow ranges

Pressure vessel ASME, Section VII, Div 1

available upon request

### Materials:

**Filter Body** — 316L, Duplex SS, and other special materials for harsh conditions –

*Note: Filter bodies are Warranted\* to never leak*

**Screens** — 316L SS Weave-wire

**Seals** — Nitrile, Viton, Silicone, EPDM

Bolt-in replacement for L configurations

V3 Filter—Vertical Design for minimal footprint



Model Number	Screen Area		Nominal Flow						Flush Line	Flush Volume 15 seconds	
	in <sup>2</sup>	cm <sup>2</sup>	50 micron		100 micron		300 micron			in	gal
V-250	224	1445	181	41	276	63	400	91	1½ MNPT	8	30
V-500	448	2890	363	82	551	125	800	182	1½ MNPT	15	57
V-1000	867	5594	702	159	1066	242	1520	345	2 MNPT	15	57
V-1500	1300	8387	1053	239	1599	363	2280	518	2 MNPT	23	87
V-2000	1696	10942	1374	312	2086	474	2970	675	2 MNPT	23	87
V-2500	2262	14594	1782	405	2706	615	3960	899	3 flange	44	167
V-3500	3060	19742	2479	563	3764	855	5360	1217	3 flange	44	167
V3	1696	10942	1374	312	2086	474	2970	675	3 flange	33	125

Larger flows, DIN flanges, BSP threads and customizing available upon request.

## Simplicity, Quality and Integrity



US 6,959,818; US 8,028,841; EU 1,446,213 and 1,758,667; Israel 161,727 and Germany 602-13-277,0-08.