



F76 Water Filter

Dirt and Debris Out!

General Information

The F76 removes harmful dirt and debris from your water supply, and extends the life of pumps, valves, fixtures and storage tanks. The F76 is ideally suited for sediment removal applications which would quickly plug and restrict the flow of normal filters.

With our new back-flush system, NO disassembly or cartridge change is required in order to remove collected sediment and debris. Simply opening the bottom vent activates a spinning water jet propeller, which thoroughly cleans the filter screen from the inside out, in just seconds. Full flow is restored in minimum time, at no cost.

Call VAF and discover the reasons our customers stay with us. Wherever Water Flows...



Advantages

- Built-in backwash impeller provides efficient cleaning with supply pressures as low as 22 psi.
- No shut-off or disassembly is required for cleaning.
- Robust backwash mechanism.
- During backwash, the F76 continues to supply filtered water without interruption.
- Memory ring indicates when the next manual backwash is due.
- Available with an automatic flush based on differential pressure or preset time interval.

VAF Filtration Systems

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Specifications & Dimensions

Specifications:

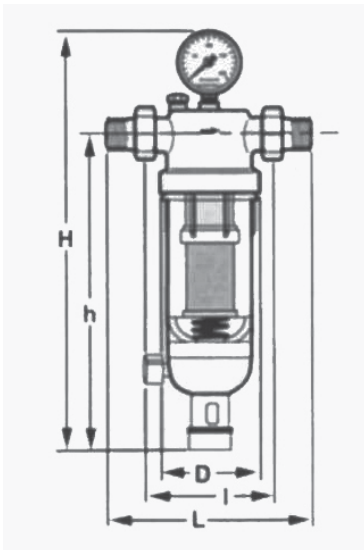
Materials of Construction

Body	Brass
Sump	Acrylic Plastic (standard) Bronze (also available)
Screen	Stainless Steel
Internals	Acetal Copolymer
Seals	NBR
Ball Valve	Brass w/PTFE Seals
Min Inlet PSI	22 psi
Max Inlet PSI	Plastic Sump: 232 psi Bronze Sump: 400 psi
Temp (max)	Plastic Sump: 40° C (104° F) Bronze Sump: 70° C (158° F)
Pipe Sizes (in.)	1/2, 3/4, 1, 1-1/4, 1-1/2 and 2
Mesh	100 microns standard. Other screen kits available, see below. 20 microns = 625 mesh approx. 50 microns = 270 mesh approx. 100 microns = 140 mesh approx. 200 microns = 70 mesh approx.

Models:

Water filters with 100 micron screen and hose connections.

F76-050:	1/2 in. sweat and NPT threaded tailpieces
F76-075:	3/4 in. sweat and NPT threaded tailpieces
F76-100:	1 in. sweat and NPT threaded tailpieces
F76-125:	1-1/4 in. sweat and NPT threaded tailpieces
F76-150:	1-1/2 in. NPT threaded tailpieces
F76-200:	2 in. NPT threaded tailpieces



Dimensions

SIZE	L*	I*	D*	H*	h*	WEIGHT**
1/2 INCH	6-11/16 (170)	4-5/16 (110)	3-13/16 (97)	17-11/16 (449)	13-13/16 (350)	6.4 (2.9)
3/4 INCH	7 (178)	4-5/16 (110)	3-13/16 (97)	17-11/16 (449)	13-13/16 (350)	6.4 (2.9)
1 INCH	8-1/4 (209)	5-1/8 (130)	3-13/16 (97)	17-7/8 (453)	13-13/16 (350)	6.8 (3.1)
1-1/4 INCH	8-3/4 (222)	5-1/8 (130)	3-13/16 (97)	17-7/8 (453)	13-13/16 (350)	7.3 (3.3)
1-1/2 INCH	9-11/16 (246)	4-3/4 (119)	4-3/4 (119)	20-15/16 (532)	16-7/16 (417)	8.8 (4.0)
2 INCH	10-1/2 (267)	4-3/4 (119)	4-3/4 (119)	20-15/16 (532)	16-7/16 (417)	10.6 (4.8)

*Dimensions in inches and (millimeters)

**Weight in pounds and (kilograms)

Capacity in Gallons Per Minute (gpm)

Pressure Drop (psi) Across Filter	Pipe Size (in.)					
	1/2	3/4	1	1-1/4	1-1/2	2
1	8	11	18	20	26	30
2	12	16	25	28	36	42
3	14	19	31	35	44	51
Flow Volume for 15 sec backwash at 60 psi inlet						
	3.2	3.2	4.0	4.0	4.7	4.7

Note: C_v is equal to capacity at 1 psi pressure drop.

Typical Applications

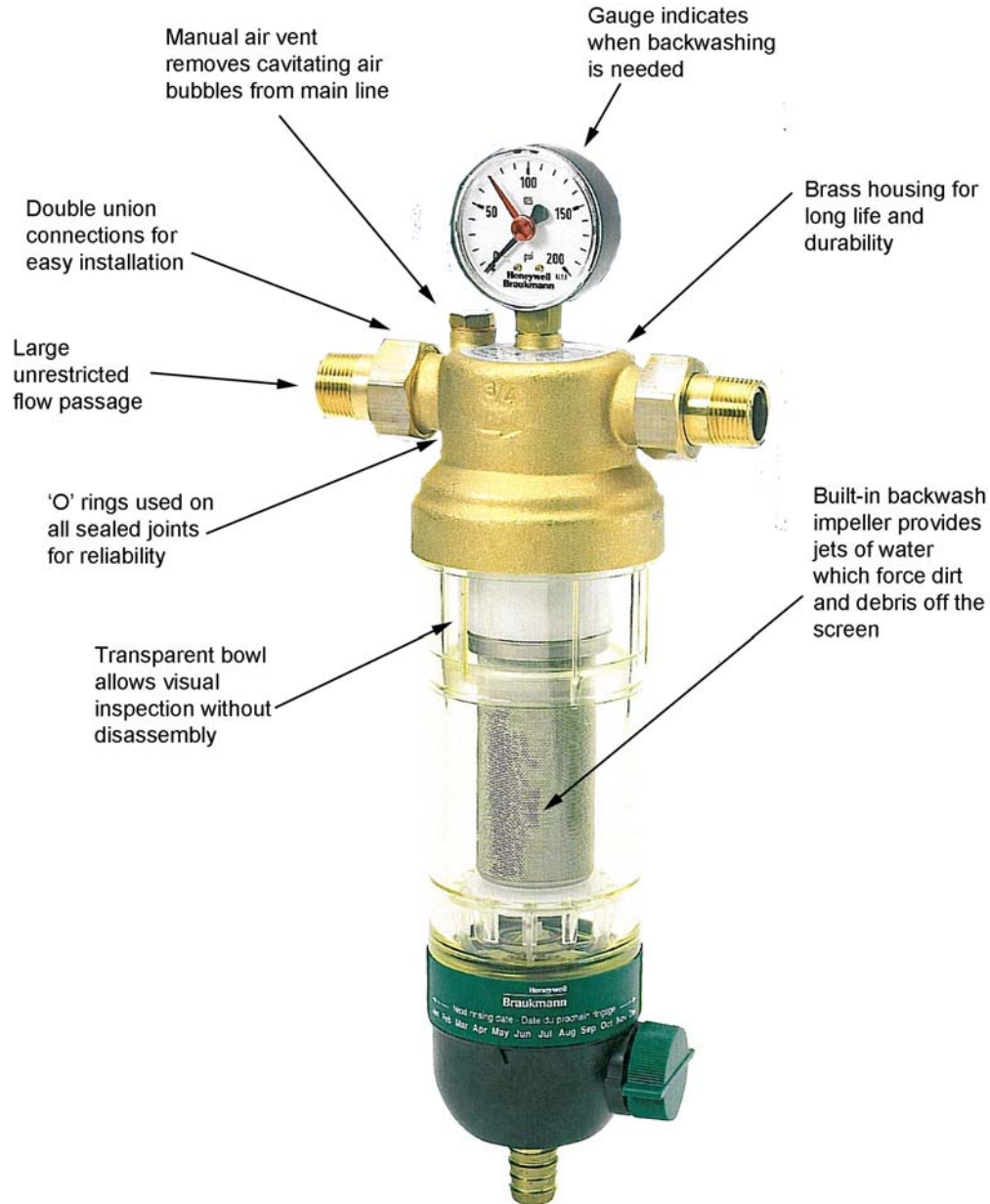
Why the F76 Works Better

The F76 is so easily and effectively cleaned it can be used even where high sediment content makes use of common filters impossible. The F76 has an extremely efficient built-in back-washing device. It also supplies filtered water on demand even while backwashing. No longer must the water supply be interrupted to clean the filter.

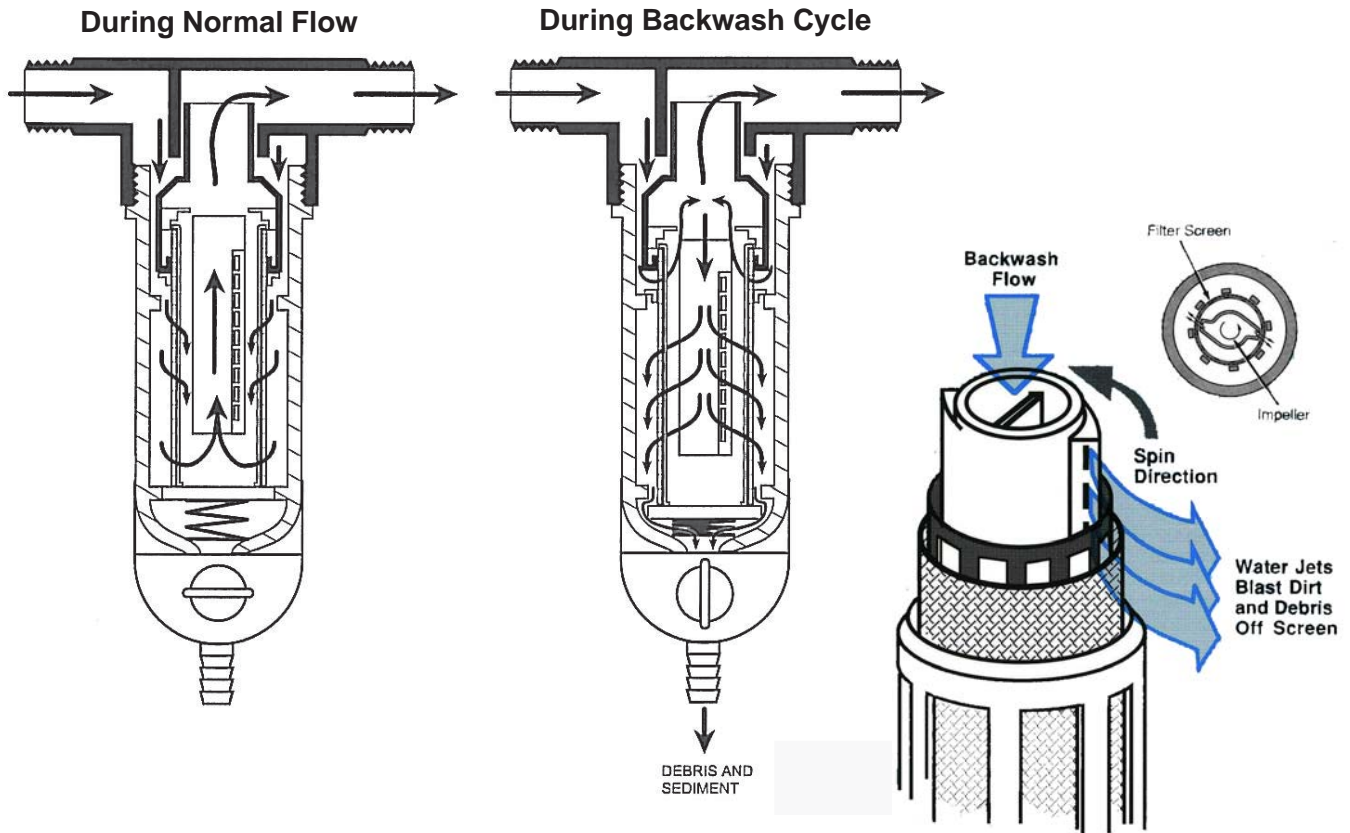
The F76 is backwashed by simply opening the ball valves seen on the lower portion of the device. This causes water to flow in reverse direction through the filter. To increase the effectiveness of cleaning, water is propelled through the filter in a powerful jet stream from the rotating impeller. This patented device completely cleans the filter of buildup, restoring full flow in a few seconds.

Typical Applications

- Private wells, Municipal
- Recreational water
- Home water
- Process water
- Protection of sensors for pressure, flow, chemicals or temperature
- Protection of solenoid valves
- Protection of water source heat pumps
- Precipitate removal from chemical water treatment systems
- Drinking fountains, soda vending machines, etc



Backwash Cycle



Activating the Backwash Cycle

The bottom drain ball valve is opened, manually or automatically by the AMV-76 Actuator/Timer. Venting pressure at the bottom of the filter sump causes the spring loaded internals to shift downwards, creating a bypass through the filter. In addition to diverting the water for backwashing, the bypass also provides an uninterrupted supply of filtered water to the system during backwashing.

This shift of the internals changes the flow path, reversing the direction of flow through the filter screen. This reversed flow is forced through small orifices in an impeller, which spins rapidly, directing concentrated "pulsating" water jets through the screen. Dirt and debris are quickly washed off the screen and out the vent.

Complete cleaning and restoration of maximum flow capacity are accomplished in just seconds. When the drain valve is closed, the internals shift back up to their normal operating position, and flow path returns to its normal route through the filter screen.



The AMV-76 Automatic Backwash Motor is designed to clean your filter automatically, according to a programmed schedule. Instead of waiting for that telltale drop in water pressure, use the Automated Backwash Motor to keep your F76 filter running efficiently. **Just set it once and forget it!**

The AMV-76-DP Automatic Backwash Motor can flush the F76 when differential pressure reaches a preset level, or off of a programmable time interval. With the DP flush the AMV-76-DP provides more responsive filter cleaning for systems with varying conditions and loading.

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