



—MODEL— **F76**

Water Filters



- Patented impeller cleaning system backwashes the filter with a 'pulsating' high pressure stream direction through the filter screen
- No shut off required during backwash cycle
- Built-in secondary filter provides an uninterrupted supply of filtered water during backwashing
- Internal bypass construction eliminates stagnant water in seldom used bypass lines
- In-line cleaning without disassembly

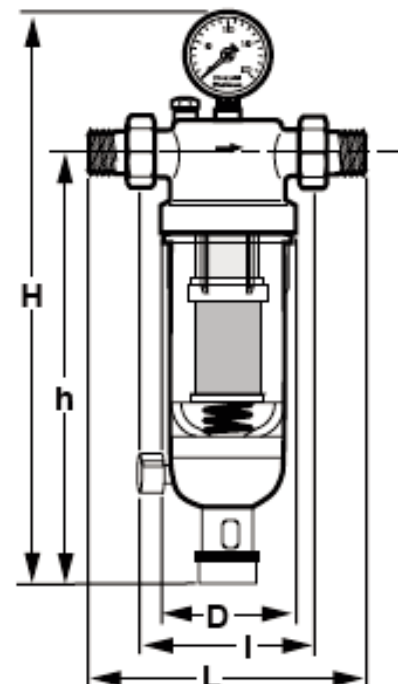
The Cla-Val F76 removes harmful dirt and debris from water supply to valve pilot system. The F76 is easily and effectively cleaned. It can be used even where high sediment content makes use of common filters impossible. The F76 has an extremely efficient built-in back-washing device. It also supplies 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 valve 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 build-up, restoring full flow in a few seconds.

Specifications:

Sizes	1/2", 3/4", 1"
Connection	Threaded NPT
Body	Brass
Sump	Brass
Filter Mesh	Stainless Steel
Internals	Acetal Copolymer
Seals	NBR
Ball Valve	Stainless Steel With PTFE Seals
Max. Inlet PSI	400 psi
Min. Required Inlet PSI	21 psi
Max. Temp.	180° F
Mesh:	100 microns standard (50 or 200 also available)
Gauge:	Included
Automatic Backwash:	24VAC, 50/60Hz (optional)

50 microns = 350 mesh approx.
100 microns = 175 mesh approx.
200 microns = 70 mesh approx.



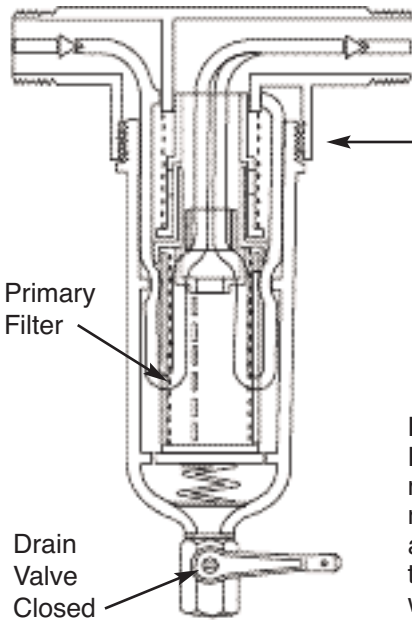
Dimensions

SIZE	L ¹	I ¹	D ¹	H ¹	h ¹	WEIGHT ²
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 DIMENSIONS IN INCHES AND (MILLIMETERS).

² WEIGHT IN POUNDS AND (KILOGRAMS).

Normal Flow Path



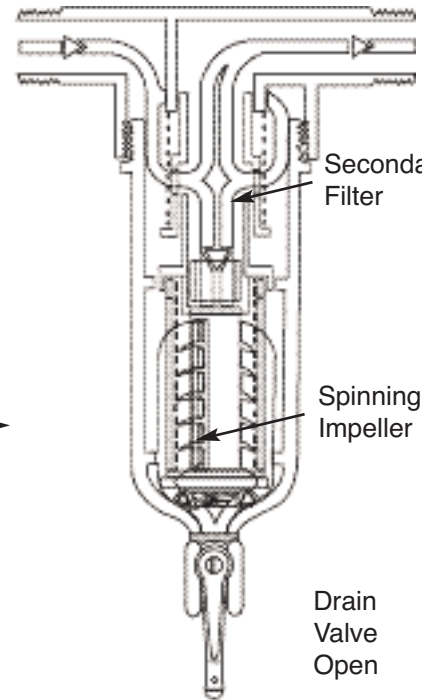
Normal Flow

During normal filtering operations water enters and flows downward past the secondary filter, inwards through the primary filter screen, upwards via a central passageway, and out.

Backwash Cycle Flow

During backwashing of the primary filter, water is automatically routed through built-in secondary filter. The clean water supply to the system is uninterrupted, with only a moderate drop off in capacity.

Flow Path During Backwashing

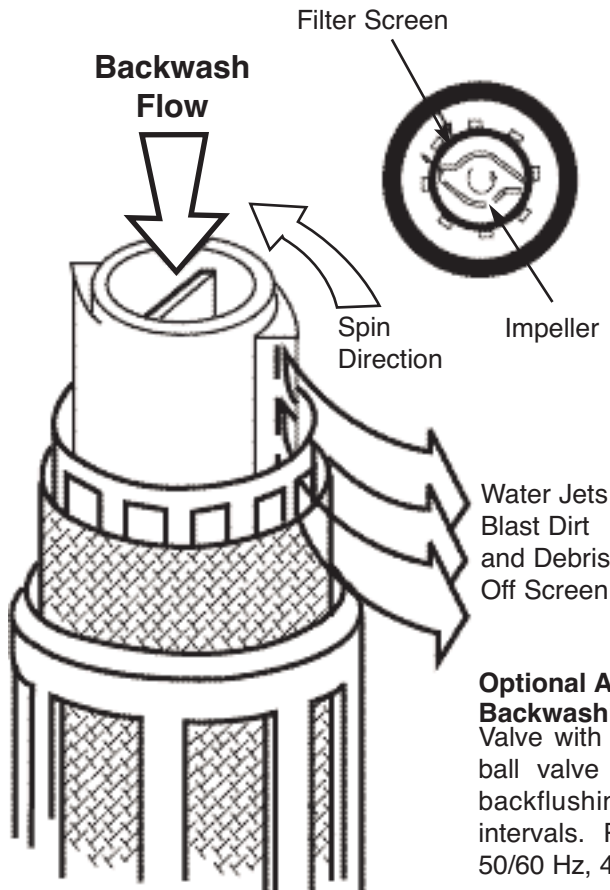


Secondary Filter

Spinning Impeller

Drain Valve Open

Backwash Flow



Optional Automatic Backwashing Assembly

Valve with motor and timer replaces ball valve drain port for automatic backflushing at pre-programmed intervals. Power required 24 VAC, 50/60 Hz, 4 watts, battery backup.

Activating the Backwash Cycle

The bottom drain ball valve is opened, manually, or by the optional Actuator/Timer. Venting pressure at the bottom of the filter sump causes the spring loaded internals to shift downwards, opening a bypass through the secondary 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 primary screen. This reversed flow is forced through small orifices in an impeller, "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 the flow path returns to its normal route through the primary filter screen.

