New

Filtration Systems Backflush Valves

3" & 4"

Automat's newly design polymeric flushing valves delivers excellent performance allowing the filtration systems to protect your irrigation system.



3"x3"x3"Grooved &
3"x2"x3" Grooved



4"x4"x4" Grooved

HIGHLIGHTS

- **Excellent performance:**
  a. Design to operate with very dirty water.
  b. Outstanding motion in low pressure conditions.
- **Engineering advantages:**
  a. Innovative seals design.
  b. Low pressure loss delivers great flushing quality.
  c. Extra strong & reliable Membrane design.
- **Operational excellence:**
  a. Easy to maintain.
  b. Years of corrosion free operation.

APPLICATIONS

- Automatic Sand media filter system,
- Automatic disc filter system,
- Automatic screen and other filtration systems



Technical Data

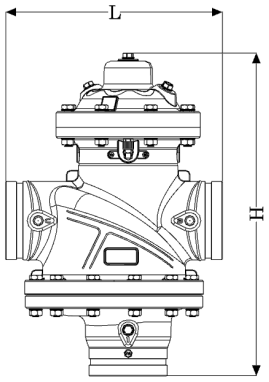
	3" Backflush Valve	4" Backflush Valve
Operating pressure	0.8 - 10 bar	0.7-10 bar
Available Connection	3" Grooved	4" Grooved
Maximum Temperature	60 C°	60 C°
Displacement Volume	425 ml	820 ml
Available Connections	3"x3"x3" Grooved 3"x2"x3" Grooved	4"x4"x4" Grooved

Technical Specification

Mode	3" Backflush valve				4" Backflush valve			
	Angle Flow		Straight flow		Angle Flow		Straight flow	
	KV	CV	KV	CV	KV	CV	KV	CV
Filtration	115	133	104	121	205	238	200	232
Backwash	108	125	115	133	190	220	210	244

Material of Construction & Dimensions

Plastic parts (Body, cap & bottom) – PAGF
Metal parts (shaft, spring & Nut bolts) – SS302/SS304



Dimensions			3"x3"x3" Grooved	3"x2"x3" Grooved	4"x4"x4" Grooved
Height	H	mm	377	425	485
		inch	14.8	16.7	19.1
Length	L	mm	286	286	316
		inch	11.3	11.3	12.4

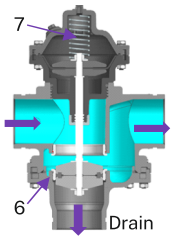
Working Principle

STRAIGHT FLOW

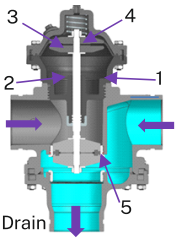
A hydraulic command from the solenoid allows water to come in from control tubing [1],Which pressurizes the lower control chamber [2],Forces the Diaphragm [3],actuated Plug Assembly [4],to move up towards the upper seat [5],Sealing the upper valve chamber drip tight .this allows water flow from the filter though the drain port. Venting the lower control chamber (2)cause the line pressure , together with the spring [7] force ,to move the valve back to lower seat (6)bring to filtration mode.

ANGULAR FLOW

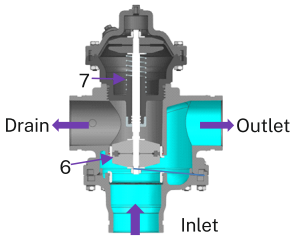
A hydraulic command from the solenoid allows water to come in from control tubing [1],Which pressurizes the upper control chamber [2],Forces the Diaphragm [3],actuated Plug Assembly [4],to move down towards the lower seat [5],Sealing it drip tight .this allows water flow from the filter though the drain port. [6]Venting the upper control chamber cause the line pressure , together with the spring [7] force ,to move the valve back to upper seat bring to filtration mode.



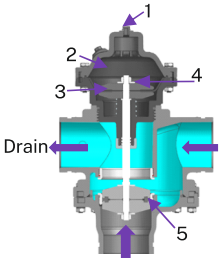
Filtration Mode



Back Wash Mode



Filtration Mode



Back Wash Mode

Typical Installation



Creating a Green World®