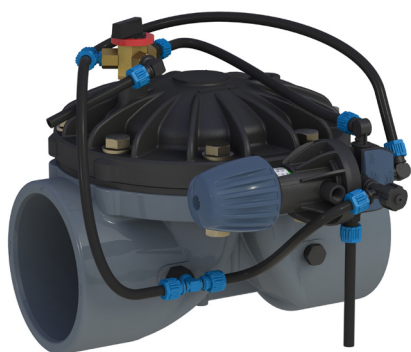




Irrigation

Weir-type Diaphragm, 3-way Pressure Sustaining Globe Valve

DOROT S90 PS/M (3W), is a Weir-type diaphragm, 3-way, automatic, pilot-controlled back-pressure sustaining/relief globe valve, with a selector valve for manual override. The valve maintains a steady, preset pressure in the network, upstream of its location. Should upstream pressure exceed preset values, the valve opens to increase network flow, reducing upstream pressure. Should upstream pressure fall below preset values, the valve closes drip-tight.

Features and Benefits

High flow irrigation design	Optimized for high flow irrigation plots and flood tables, ensuring effective water delivery
Direct installation on PVC pipelines	Reduces installation costs and friction losses, by eliminating the need for elbow joints in aboveground setups
Flexible diaphragm	Handles raw water with high levels of solids
	Enables trouble-free operation and excellent regulation capabilities, even at zero flow
Corrosion resistant	High resistance to corrosive fluids and aggressive media; suitable for various irrigation and industrial applications
Wide selection of end connections	Offers versatility using: Threaded, Solvent Welded and Flanged options
Resistant to impurities	Operates effectively even in water with high levels of solids or impurities

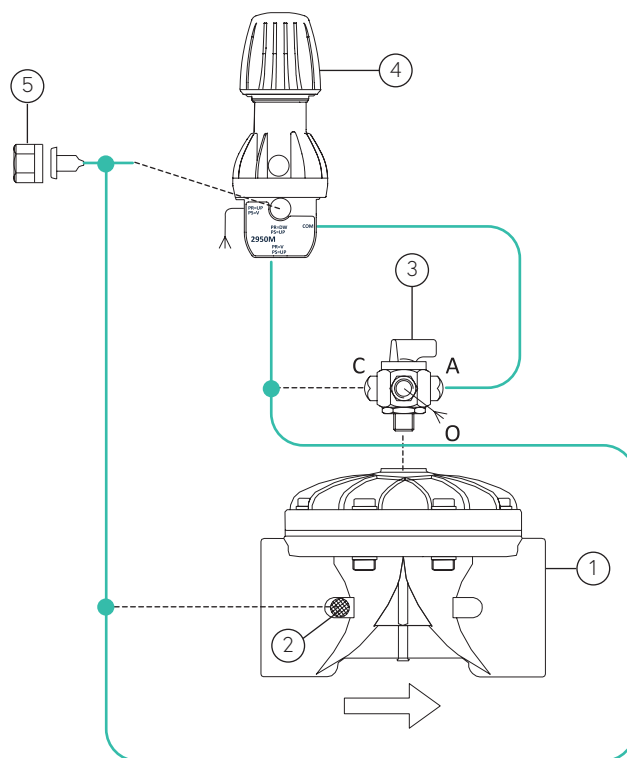
Technical Specifications

Size Range		3"-6" / DN80, DN90, DN100, DN110, DN160
Working Pressure		8 bar / 100 psi , 10 bar / 145 psi
Max. Water Temperature		45° C / 113° F
End Connections		Threaded BSP / NPT
		Solvent-welded
Construction Materials	Body & Cover	PVC & Glass Reinforced Polyamide
	Spring	Stainless Steel 302 / Stainless Steel 316
	Diaphragm	NR / ALD 70
	Fittings & Control Trim Devices	Glass Reinforced Polyamide, Polypropylene
	Control Trim Tubes	Polyethylene

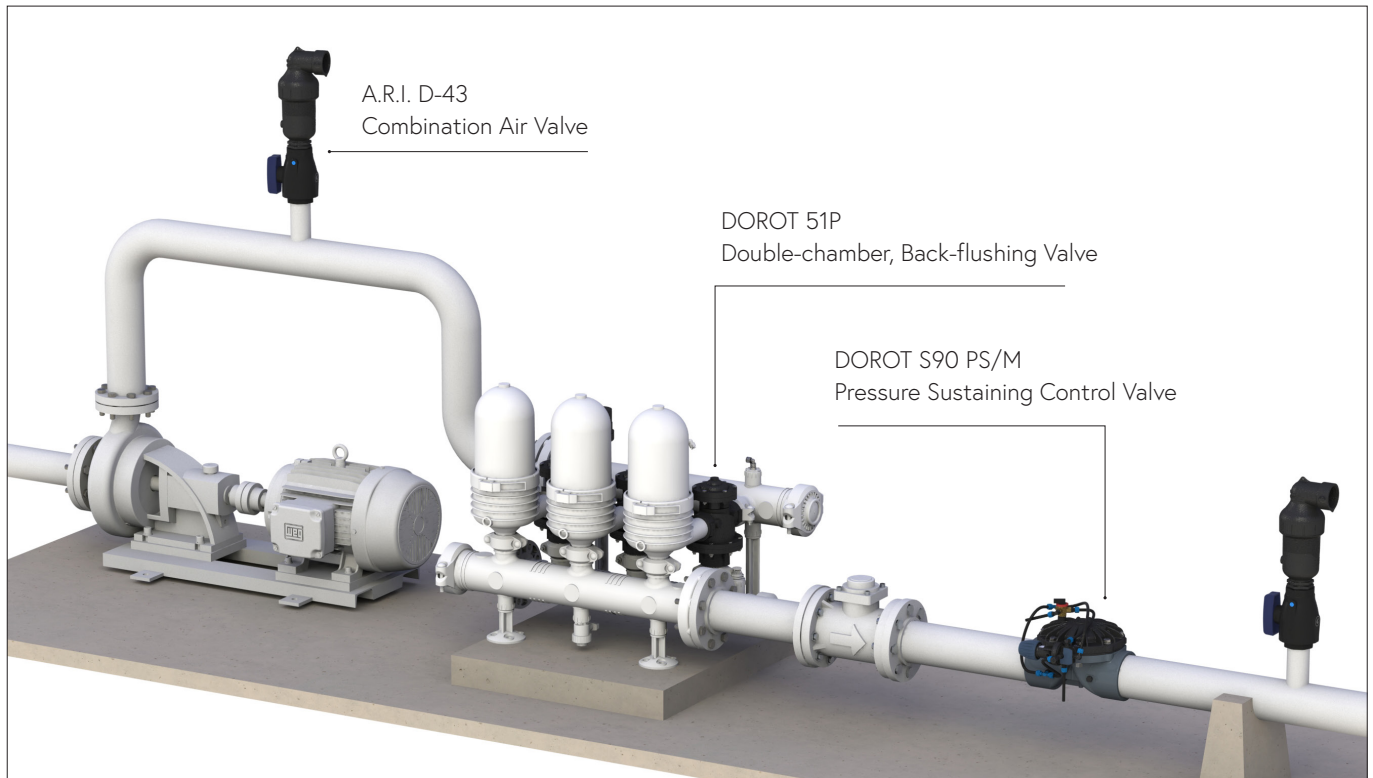
* Other options are available upon request.

Main Control System Components

No.	Component
1	Main Valve
2	Self-flushing filter
3	3-way Position Selector Valve
4	3-way Pressure Sustaining Pilot Valve
5	Pressure Test Device



Typical Installation



Purchase Specifications

- Weir-type Diaphragm, 3-way Pressure Sustaining Globe Valve.
- No stem, shaft or guide bearing inside the water passage.
- Operated by line pressure or external hydraulic/pneumatic actuation.
- Maintains accurate regulation across the full flow range.
- Controlled by a pressure-sustaining pilot valve, to ensure a constant upstream pressure regardless of flow variations.

Design Considerations

- Select valve size based on expected maximum flow and acceptable head loss.
- Large pressure differentials may cause cavitation – consult Aquestia for solutions.