



Irrigation

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

DOROT S75 PS/M 3W, is a Weir-type diaphragm, 3-way, automatic pilot-controlled back-pressure sustaining/relief globe valve, with 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 minimize losses. Should upstream pressure fall below preset values, the valve closes drip-tight.

Features and Benefits

Durable, corrosion-resistant materials	High resistance to chemicals and fertilizers
Operates up to 12 bar (175 psi)	Able to handle demanding high-pressure systems
Full selection of features available: control functions, sizes, varied end connections	Simplifies installation and supports diverse applications
Asymmetric diaphragm with large flow cross section	Allows smoother operation; high flow capacity with very low head losses, for enhanced efficiency
Flat bonnet design with small control chamber for quick opening/closure	Enables more precise regulation, improved responsiveness and reduced downtime
Effective operation under high/low pressure conditions	Suitable for many diverse irrigation methods

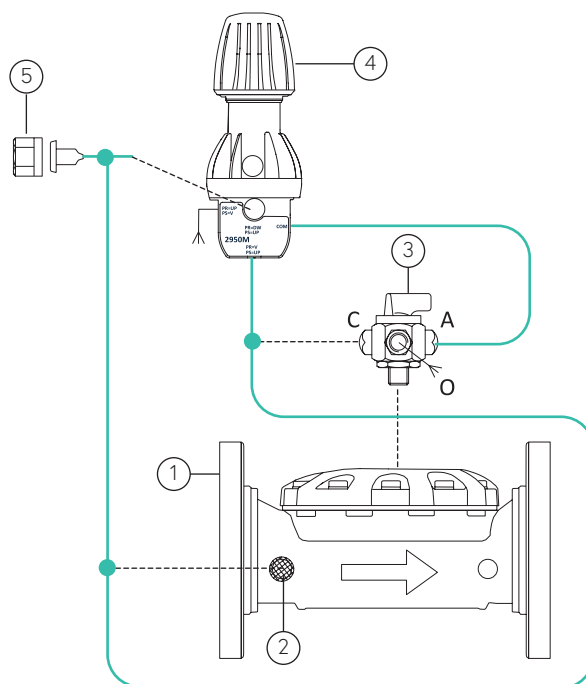
Technical Specifications

Size Range		3/4"-8"R / DN20-DN200R
Working Pressure		10 bar / 145 psi, 12 bar / 175 psi
Max. Water Temperature		60° C / 140° F
End Connections		Grooved ASME/ANSI AWWA 606
		Threaded BSP / NPT
		Flanged Universal
Construction Materials	Body & Cover	Glass Reinforced Polyamide, Polypropylene
	Spring	Stainless Steel 302
	Diaphragm	NR / EPDM
	Fittings & Control Trim Devices	Glass Reinforced Polyamide, Polypropylene
	Control Trim Tubes	Polyethylene

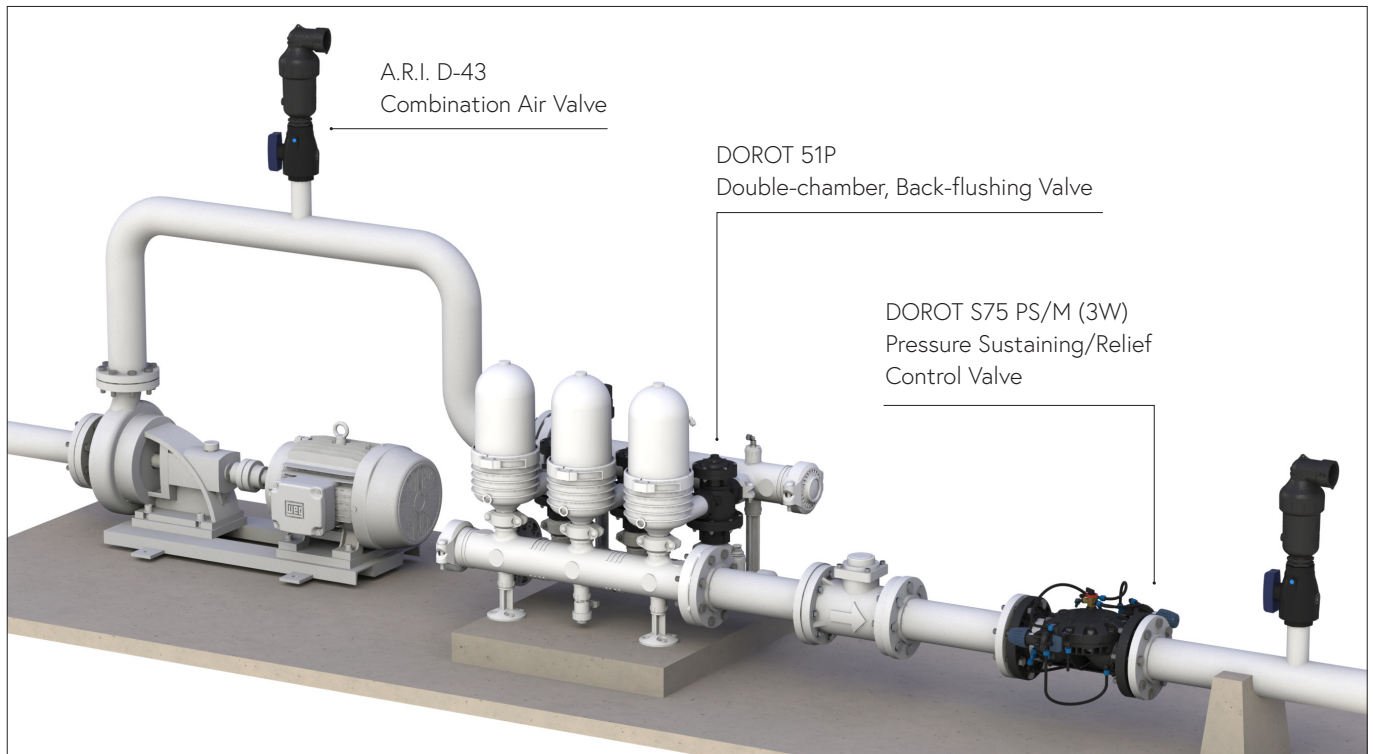
* Other options are available upon request.

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

- Hydraulic globe valve with Weir-type diaphragm, pilot-operated.
- 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, ensuring 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.