



Irrigation

Diaphragm-actuated, Rigid Seal, 3-way Pressure Sustaining Globe Valve

DOROT S80 PS/M (3W), is a Diaphragm-actuated, Rigid Seal, 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

Built-in control system	No additional accessories to assemble or external loop; prohibits in-the-field damage by animals
3-position manual override: open/auto/closed	Independent override mechanism, not dependent on solenoid, for increased operational reliability
Exclusive labyrinth	Large inlet filter plus labyrinth; provides outstanding protection against clogging
Flow control handle with removable knob	User adjustable settings with disabler; prevents unauthorized changes or tampering once values are set
Durable corrosion-resistant materials	Constructed from high-quality materials that resist corrosion, chemicals, and UV radiation; ideal for long-term use in harsh environments
High flow capacity	Designed with large water flow capacity; ensures efficient irrigation for large-scale agricultural applications

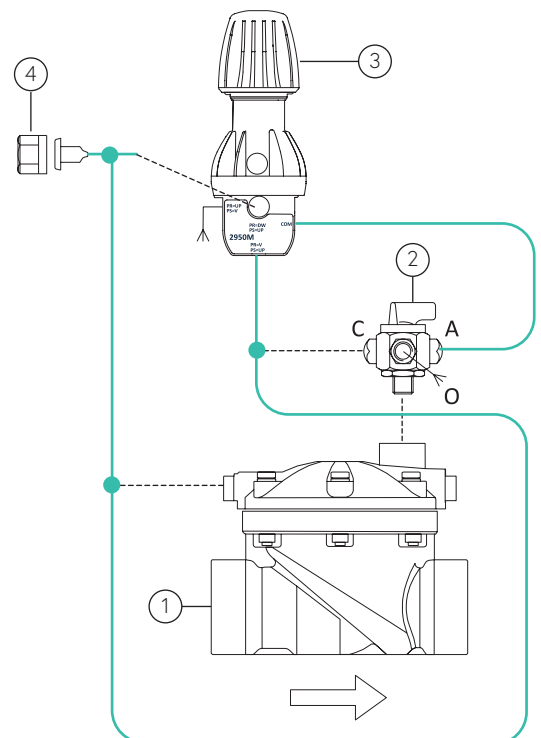
Technical Specifications

Size Range		1½"-4"R / DN40-DN100R
Working Pressure		10 bar / 145 psi
Max. Water Temperature		60° C / 140° F
End Connections		Threaded BSP / NPT Flanged Universal
Construction Materials	Body & Cover	Glass Reinforced Polyamide
	Spring	Stainless Steel 302
	Diaphragm	EPDM / NR
	Fittings & Control Trim Devices	Glass Reinforced Polyamide, Polypropylene
	Control Trim Tubes	Polyethylene

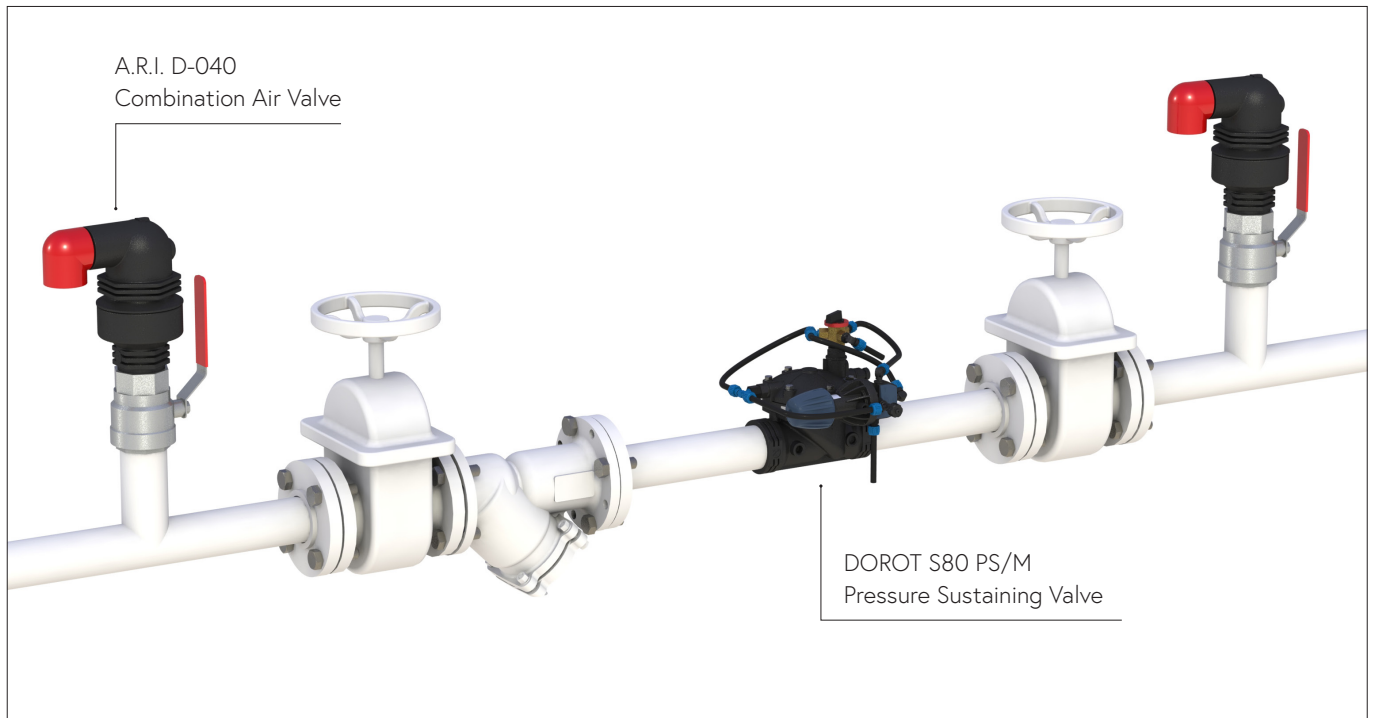
* Other options are available upon request.

Main Control System Components

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



Typical Installation



Purchase Specifications

- Diaphragm-actuated, Rigid Seal, 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 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.