



S80 PR/PS/M (3W)



Irrigation

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

DOROT S80 PR/PS/M (3W), is a Diaphragm-actuated, Rigid Seal, 3-way, automatic, pilot-controlled, back-pressure sustaining and pressure reducing globe valve, with a selector valve for manual override. The valve opens when pressure reaches a preset value, upstream of its location. The valve limits downstream pressure to a set value, regardless of upstream pressure or flow variations.

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

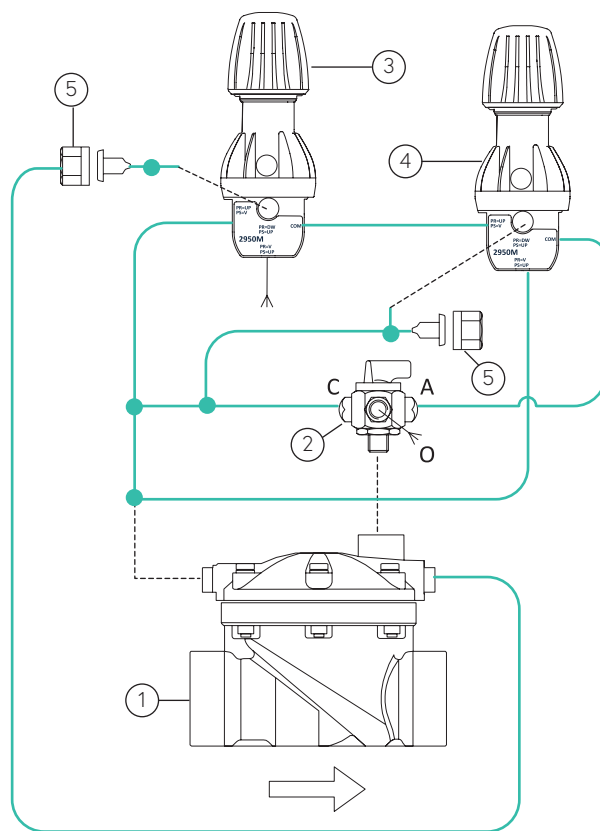
Technical Specifications

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

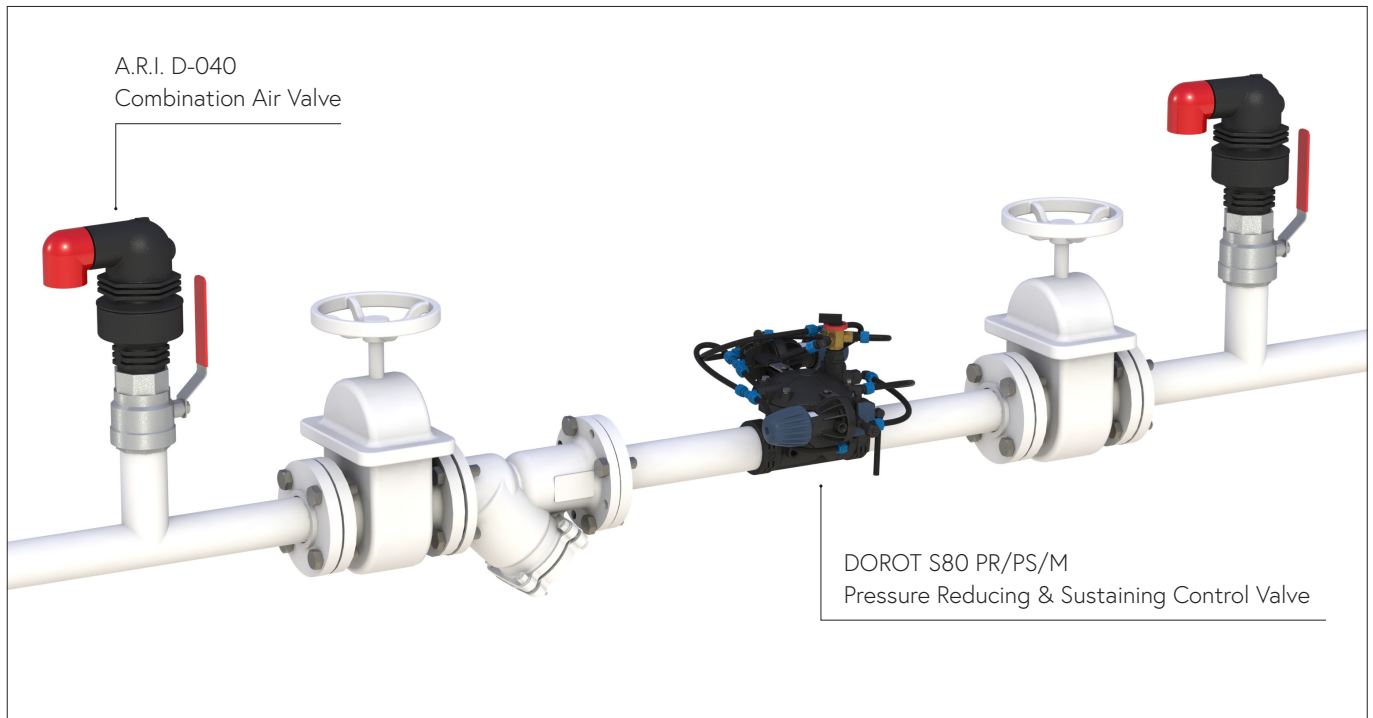
* Other options are available upon request.

Main Control System Components

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



Typical Installation



Purchase Specifications

- Diaphragm-actuated, Rigid Seal, 3-way Pressure Reducing & 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, without a bypass or throttling plug.
- Controlled by a pressure-reducing & pressure sustaining pilot valve, to ensure constant outlet pressure regardless of upstream conditions, and a minimal upstream pressure.

Design Considerations

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