



Irrigation

Diaphragm-actuated, Rigid Seal, 3-way Flow Control Globe Valve

DOROT S80 FR/M (3W), is a Diaphragm-actuated, Rigid Seal, 3-way, automatic, pilot-operated, flow control globe valve, with a selector valve for manual override. The valve limits the flow rate in the system to a preset value, regardless of any upstream pressure variations. The valve fully opens when flow rate drops below a preset point.

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

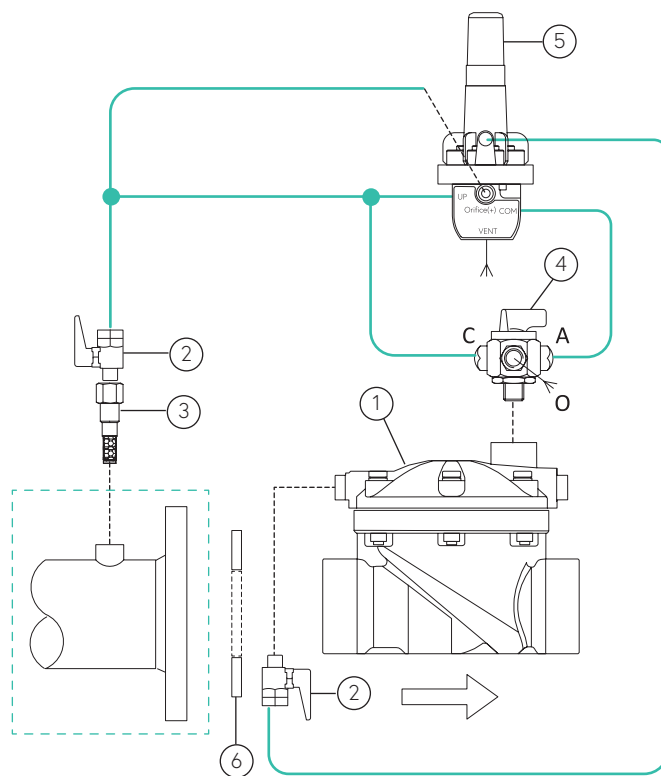
Technical Specifications

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

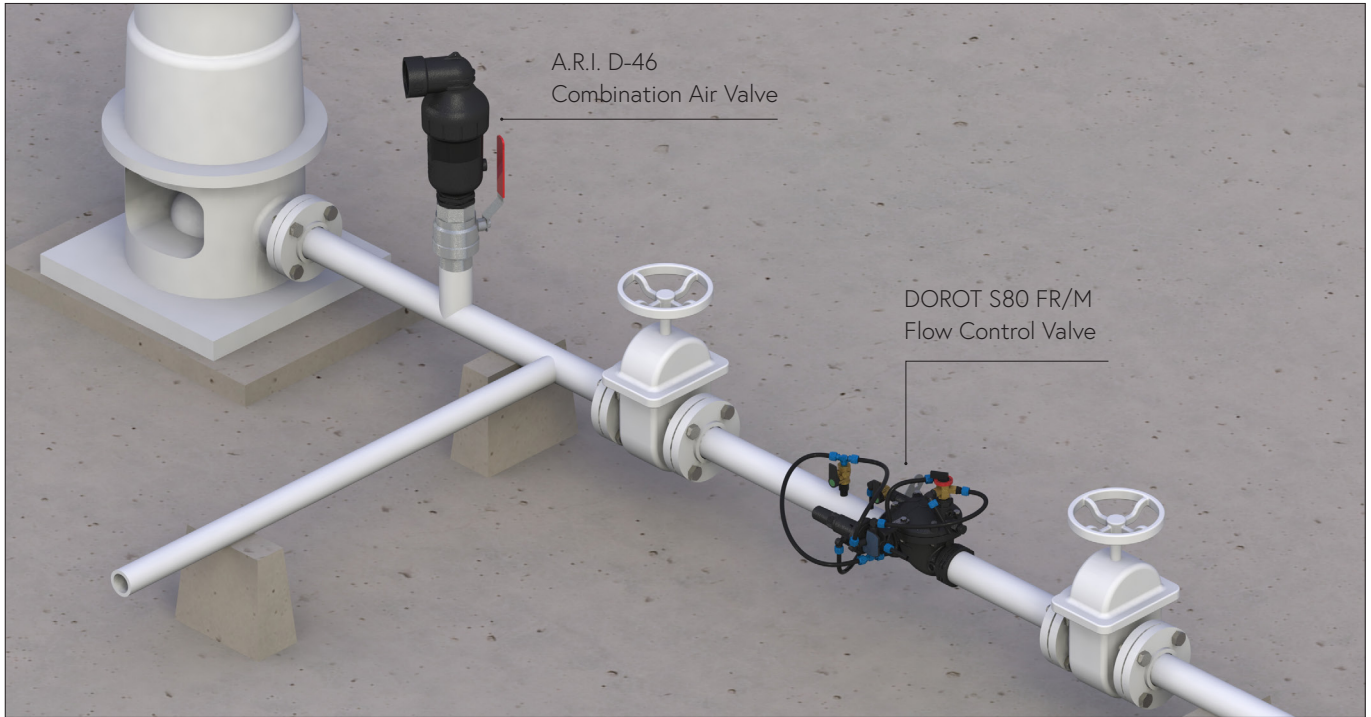
* Other options are available upon request.

Main Control System Components

No.	Component
1	Main Valve
2	Ball valve
3	Self-flushing filter
4	3-way Position Selector Valve
5	3-way Differential Reducing Pilot Valve
6	Orifice plate



Typical Installation



Purchase Specifications

- Diaphragm-actuated, Rigid Seal, 3-way Flow Control Globe Valve
- No stem, shaft or guide bearing inside the water passage.
- Operated by line pressure or external hydraulic/pneumatic actuation.
- Controlled by a pressure-reducing differential pilot valve, limiting flow through the valve regardless of pressure variations.

Design Considerations

- Select valve size based on expected maximum flow and acceptable head loss.
- An additional pressure loss of ~ 0.25 bars / 3.5 psi is created by the orifice plate at the set flow.
- A ½" pressure sensing port should be provided upstream of the valve.
- Large pressure differentials may cause cavitation – consult Aquestia for solutions.