DOROT S75 PR/M (3W)

Aquestia
Directing the Flow

Irrigation

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

DOROT S75 PR/M (3W), is a Weir-type diaphragm, 3-way automatic pilot-controlled pressure reducing globe valve, with a selector valve for manual override. The valve reduces high upstream pressure to a steady, preset, lower downstream pressure; regardless of fluctuations in upstream pressure or flow rate. In cases where the downstream pressure exceeds the set value, the valve will close 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

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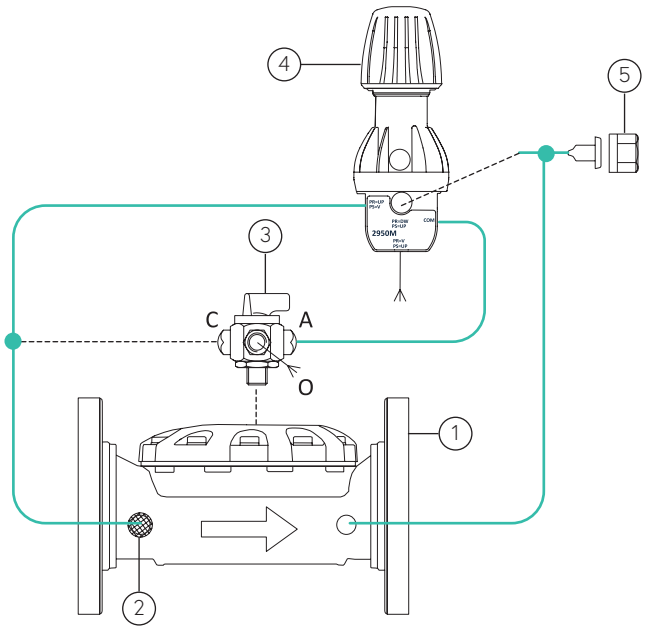
Technical Specifications

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 Reducing Pilot Valve
5	Pressure Test Device



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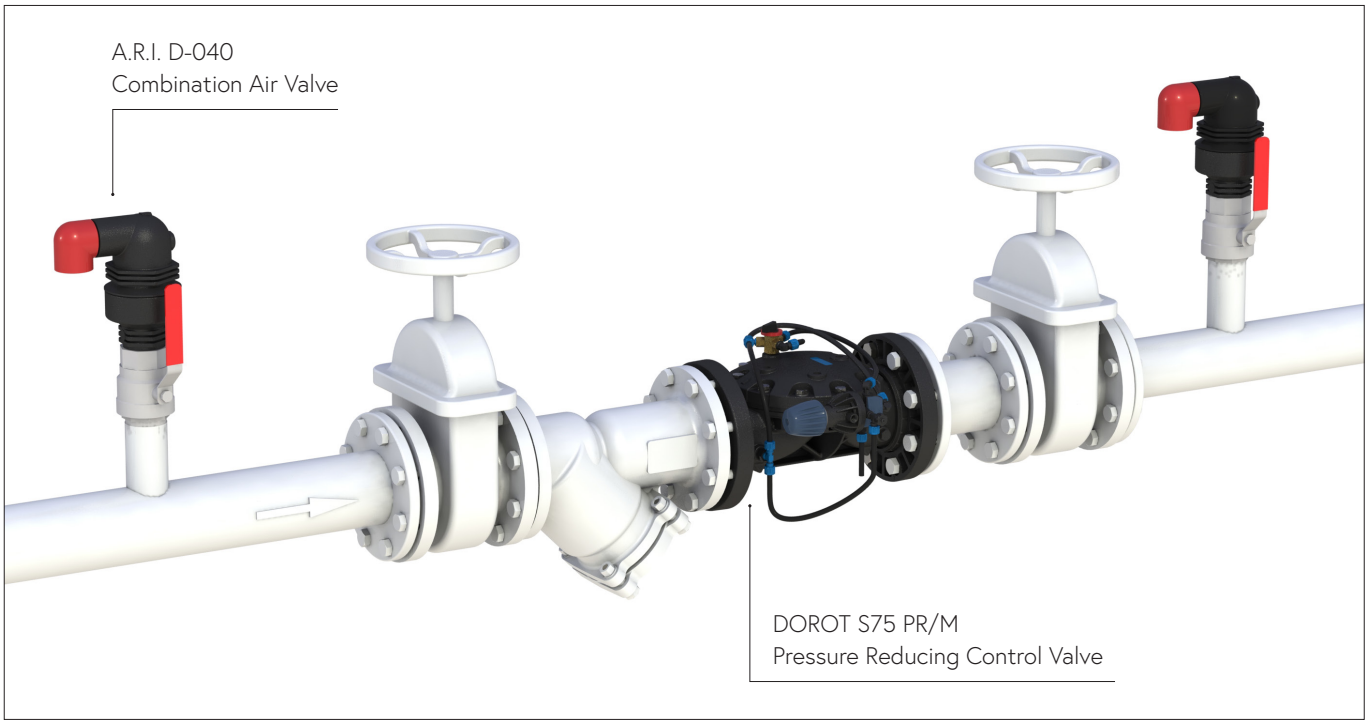
Typical Installation



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, without a bypass or throttling plug.
- Controlled by a pressure-reducing pilot valve, to ensure constant outlet pressure, regardless of upstream conditions.

Design Considerations

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

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