



Irrigation

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

DOROT S300 PR/M (3W), is a Diaphragm-actuated, Rigid Seal, 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 preset value, the valve will close drip-tight.

Features and Benefits

Superior seat design, guided by the unique LTP (Linear Throttling Plug)	Enables regulation to 'near-zero' flow as standard for all valve sizes
	Eliminates the need for an internal throttling device such as a U-port or V-port
	Provides high reliability and operational stability
Stainless Steel control port sleeves	Protects against corrosion and blockage, reducing time and cost on maintenance
Self-cleaning inline filter	Cuts down on frequency of inspections and maintenance, significantly reducing labor costs
Low cavitation index	Eliminates conditions leading to cavitation over a wide operating pressure range
No dynamic O-rings	Superior design reduces ongoing maintenance due to leakage or breakdowns
Simplified control system design	Enables smoother operation, more efficient maintenance and precise regulation

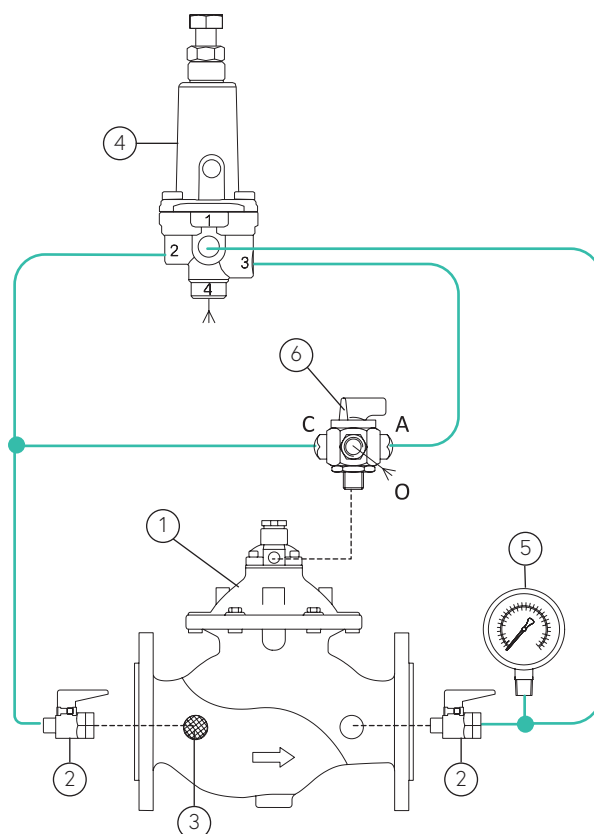
Technical Specifications

Size Range		1½"-40" / DN40- DN1000
Working Pressure		0.5-16 bar / 7-230 psi, 0.5-25 bar / 7-360 psi
Max. Water Temperature		80° C / 176° F
End Connections		Grooved ASME / ANSI AWWA 606
		Threaded BSP / NPT
		Flanged ISO 7005 / ANSI B16.42 / AS 4087
Construction Materials	Body & Cover	Ductile Iron / Cast Steel / Stainless Steel / Nickel-Aluminum-Bronze
	Main Valve Internals	Stainless Steel / Coated Steel
	Spring	Stainless Steel 302
	Diaphragm	EPDM
	Seal	EPDM
	Coating	UV-protected Epoxy
	Fittings & Control Trim Devices	Brass / Stainless Steel 316
	Control Trim Tubes	High Pressure Polypropylene / Copper / Stainless Steel 316

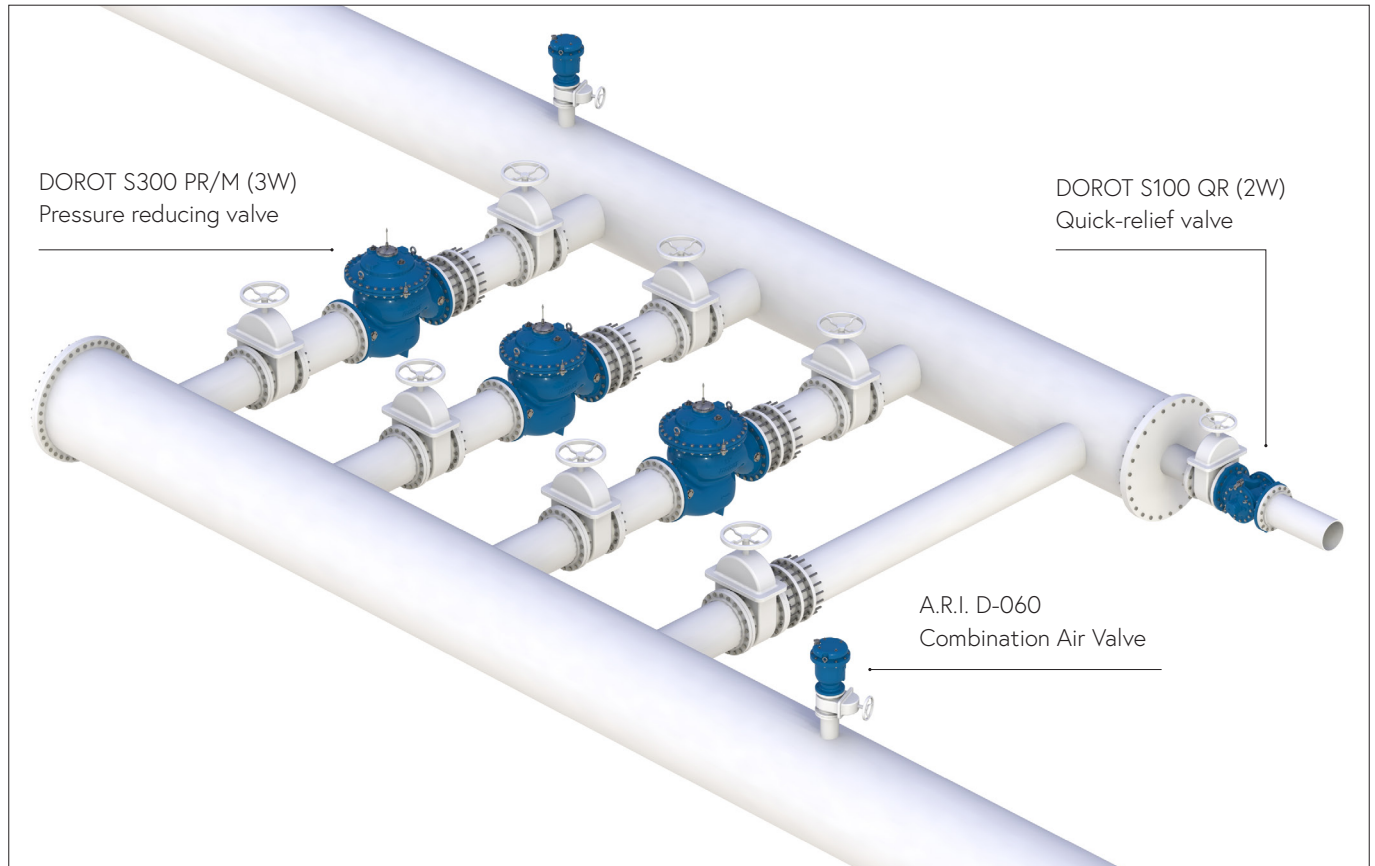
* Other options are available upon request.

Main Control System Components

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



Typical Installation



Purchase Specifications

- Hydraulic Globe Valve, Diaphragm-actuated, Rigid Seal, 3-way Pilot-operated.
- Operated by line pressure or external hydraulic/pneumatic actuation.
- Maintains accurate regulation across the full flow range, without a bypass or throttling plug.
- Double Guiding System: Stem is guided at the top by a replaceable guide bearing, and at the bottom by the unique, Stainless Steel LTP Device (Linear 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.