



Irrigation

Diaphragm-actuated, Rigid Seal, 3-way Remote-controlled Globe Valve

DOROT S300 RC/M (3W), is a Diaphragm-actuated, Rigid Seal, Automatic, Remote-controlled Globe Valve, with a selector valve for manual override. The valve opens when the hydraulic relay is pressurized and closes drip-tight when the relay is de-pressurized.

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

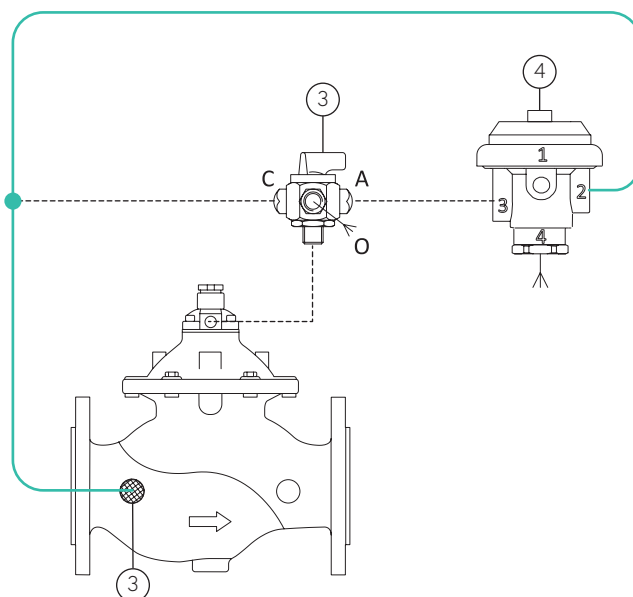
Technical Specifications

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

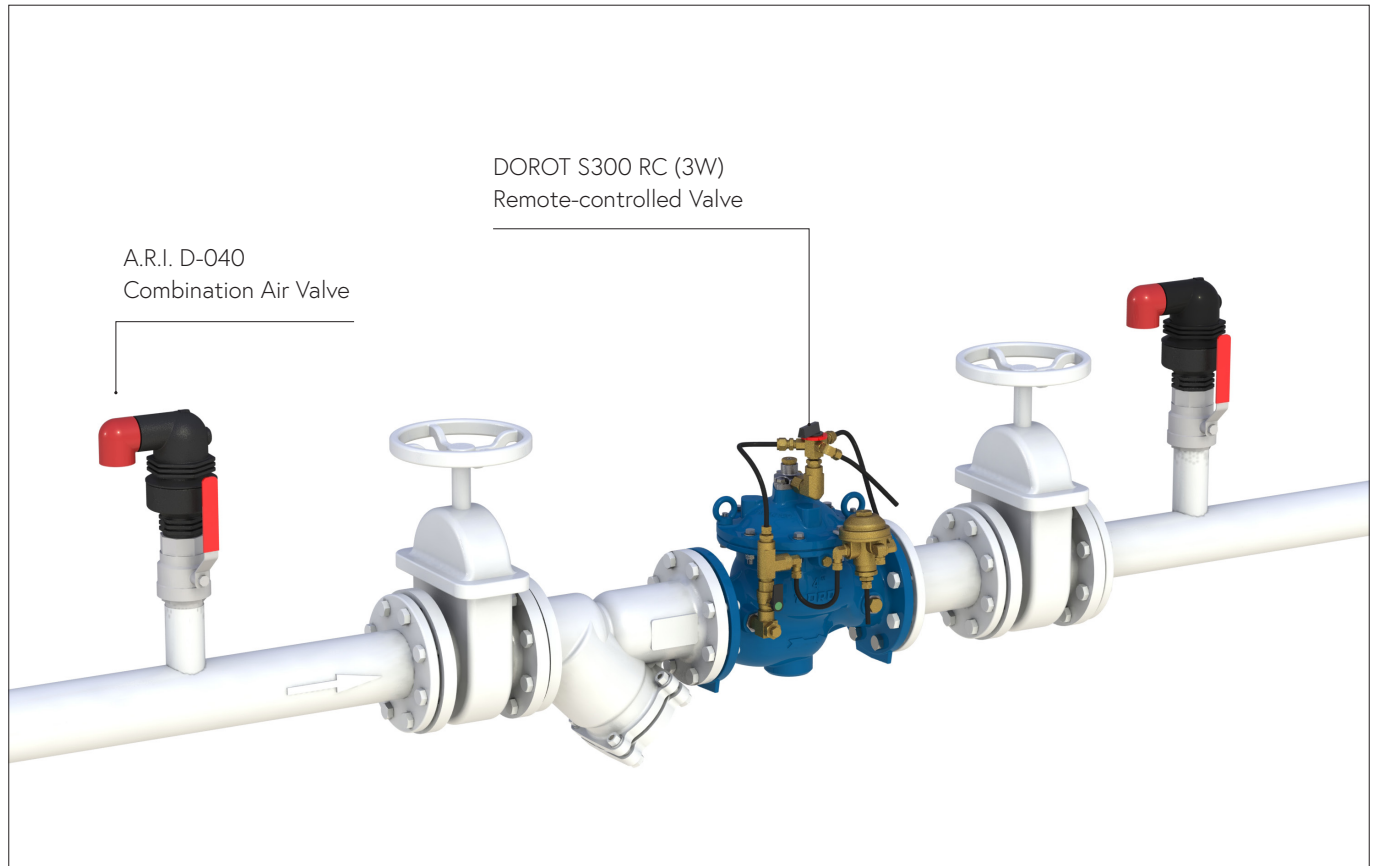
* Other options are available upon request.

Main Control System Components

No.	Component
1	Main Valve
2	Self-flushing filter
3	3-way Position Selector Valve
4	Remote command



Typical Installation



Purchase Specifications

- Hydraulic Globe Valve, Diaphragm-actuated, Rigid Seal, 3-way Pilot-operated.
- Operated by line pressure or external hydraulic/pneumatic actuation.
- 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).
- Valve position is controlled by a hydraulic relay valve.

Design Considerations

- Select valve size based on expected maximum flow and acceptable head loss.
- Both NC (Normally Closed) and NO (Normally Open) valves are available; to allow customers the ability to choose according to their needs.
- The pressure command opens the NC valve, or closes the NO valve.