DOROT S100 REEL (3W)

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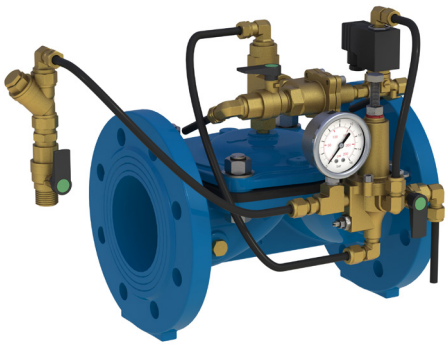
Directing the Flow



Irrigation

Weir-type Diaphragm, 3-way Electric Surge-anticipating Globe Valve

DOROT S100 REEL (3W), is a Weir-type Diaphragm, 3-way Electric Surge-anticipating, Globe Valve. This automatic, solenoid-controlled surge-anticipating valve is activated by the pressure of the pipeline. The valve maintains a drip-tight closed position under normal operating conditions, while opening fully when the solenoid is energized. The valve closes at a slower pace, preventing secondary surges as the solenoid is de-energized. The valve also opens automatically to relieve excess pressure in the line as needed.

Features and Benefits

Wide range of sizes and patterns	Allows compatibility across different systems for more versatile installation
Flexible reinforced diaphragm design (no bearings, guides, or internal seals)	Significantly reduces maintenance while enhancing reliability; to ensure exceptionally low losses at high flow rates
Low pressure diaphragm mechanism	Enables precise and efficient operation of hydraulic control valves at minimal pressures
Regulates at a stable mode, down to near-zero flow	Ensures consistent performance without the need for specialized low-flow adjustments, such as a V-port or bypass valve
Self-cleaning inline filter	Cuts down on frequency of inspections and maintenance, significantly reducing labor costs
Simple control system design	Facilitates smooth operation, efficient maintenance and precise regulation

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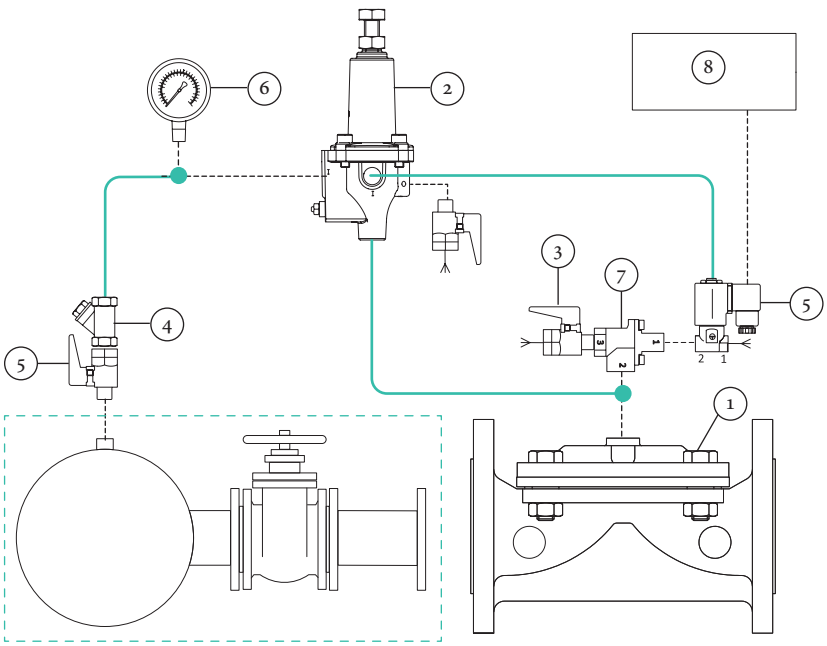
Technical Specifications

Size Range		¾" - 24" / DN20 - DN600
Working Pressure		16 bar / 230 psi
Max. Water Temperature		80° C / 176° F
End Connections		Grooved ASME / ANSI AWWA 606
		Threaded BSP / NPT
		Flanged ISO 7005 / ANSI B16.1 / ANSI B16.42 / AS 4087
Construction Materials	Body & Cover	Cast Iron / Ductile Iron / Cast Steel / Stainless Steel / Nickel-Aluminum-Bronze
	Spring	Stainless Steel 302
	Diaphragm	NR / NBR / EPDM / Neoprene
	Coating	Polyester / 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	High Pressure Relief Pilot
3	Ball Valve
4	Y-type Filter
5	3/2-way Solenoid Valve
6	Pressure gauge
7	2/2-way Hydraulic Relay Valve
8	Controller



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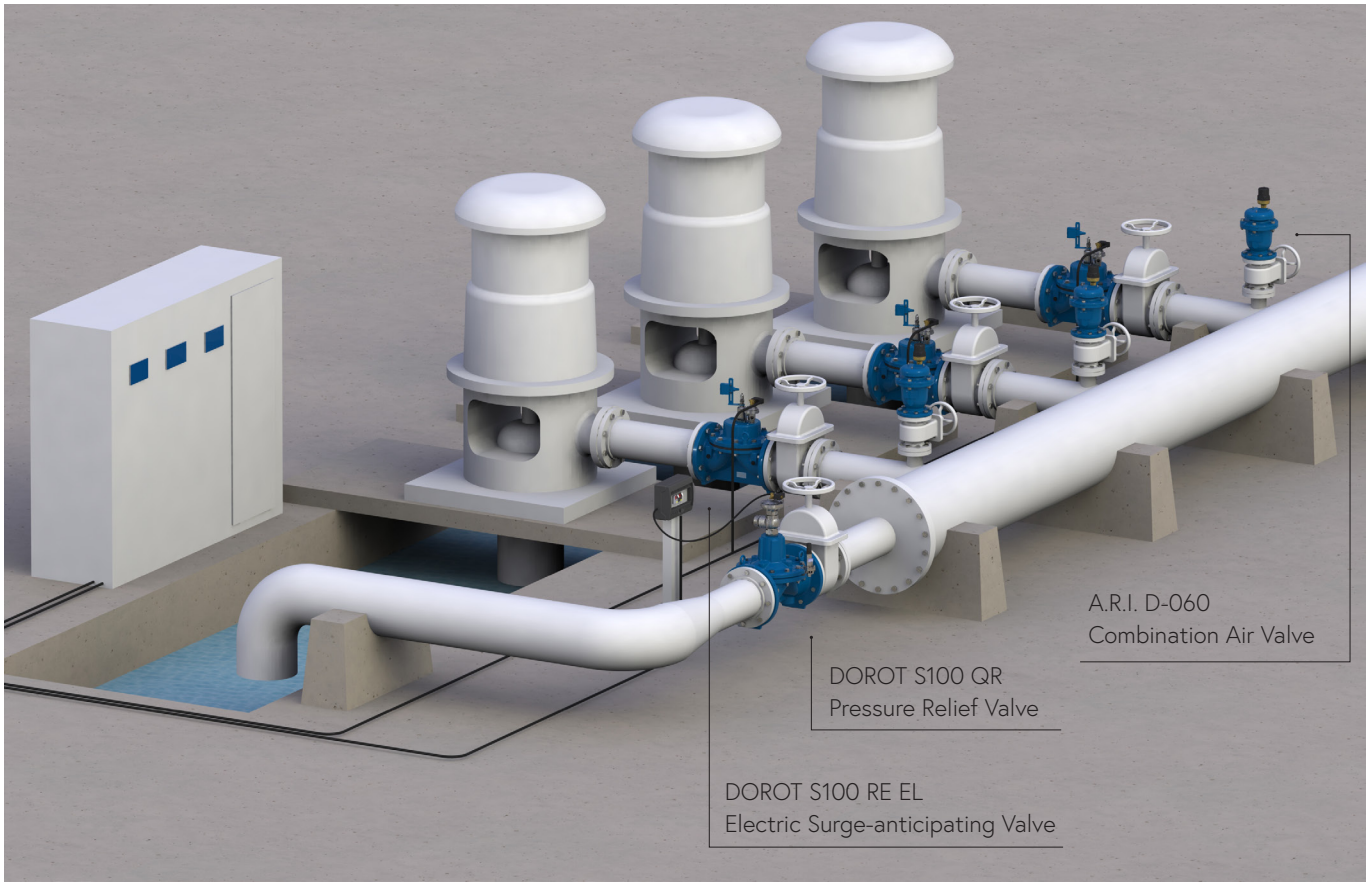
Typical Installation



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.
- The valve is controlled by an electric solenoid, a hydraulic relay and a pressure-relief pilot valve.

Design Considerations

- Install a manual separation valve upstream of the quick relief valve for maintenance.
- Closure time is related to the pipe length and should be extended for longer pipes.
- The valve sensing line must be connected to the main line.

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