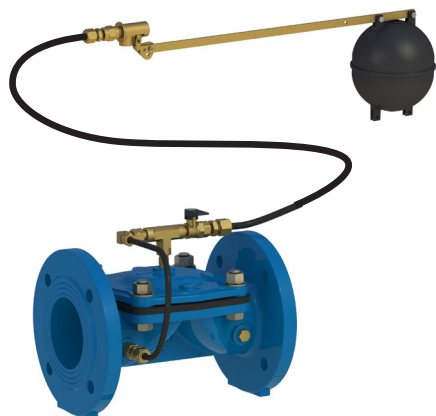


DOROT S100 FL (2W)



Irrigation

Weir-type Diaphragm, 2-way Modulating Float Level Control, Globe Valve

DOROT S100 FL (2W), is a Weir-type Diaphragm, 2-way Modulating Float Level Control, Globe Valve, activated by the pressure of the pipeline. The valve modulates to maintain a steady, preset water level in the reservoir. In cases where water levels may rise above the float-pilot location, the valve maintains a drip-tight closed position.

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

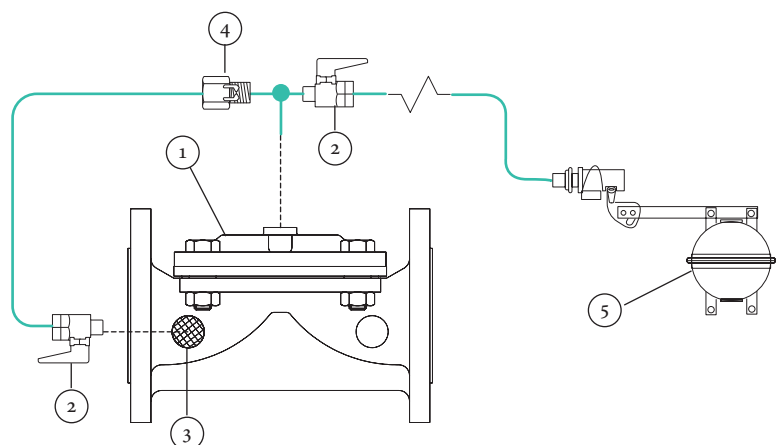
Technical Specifications

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

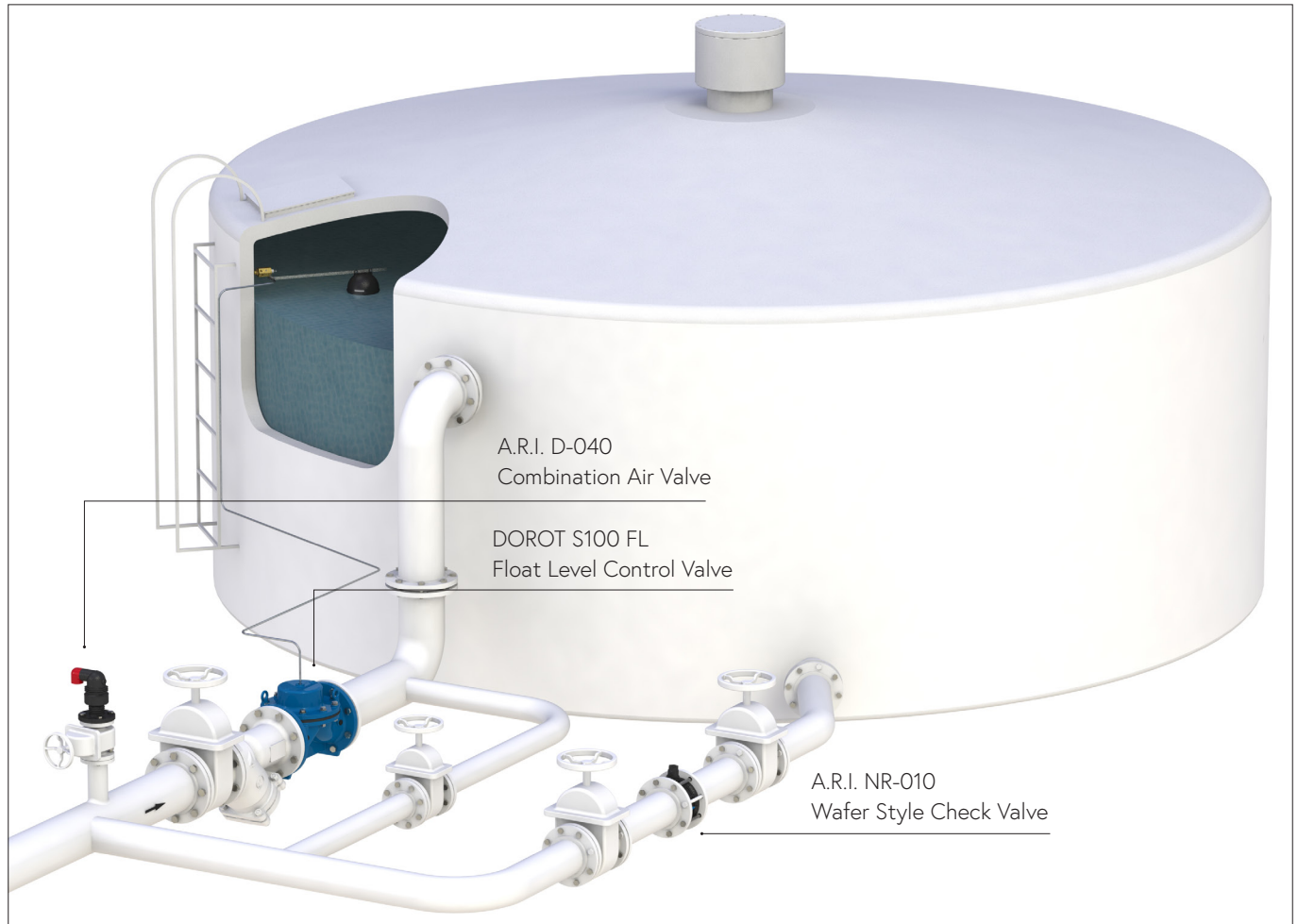
* Other options are available upon request.

Main Control System Components

No.	Component
1	Main Valve
2	Ball valve
3	Self-flushing filter
4	Orifice 1.5 mm
5	Float Actuated Modulating Pilot Valve



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.
- Controlled by a modulating, 2-way float-activated pilot valve.

Design Considerations

- Select valve size based on expected maximum flow and acceptable head loss.
- Large pressure differentials may cause cavitation – consult Aquestia for solutions.
- Static upstream pressure should be at least 1 bar / 15psi higher than the hydrostatic water pressure downstream.
- Use a differential level control valve to avoid excessive noise, as recommended in proximity to residential areas.