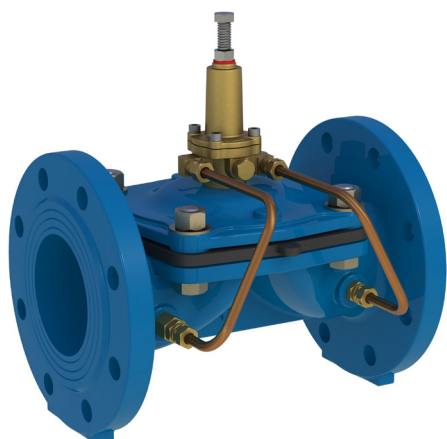


DOROT S100 QR (2W)



Irrigation

Weir-type Diaphragm, 2-way Quick Pressure Relief, Globe Valve

DOROT S100 QR (2W), is a Weir-type Diaphragm, 2-way Quick Pressure Relief, Globe Valve, activated by the pressure of the pipeline. The valve opens instantly once pressure in the pipeline exceeds a safe preset level; relieving excess pressure in the system. When pressure returns to normal, the valve closes slowly, at an adjustable pace.

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

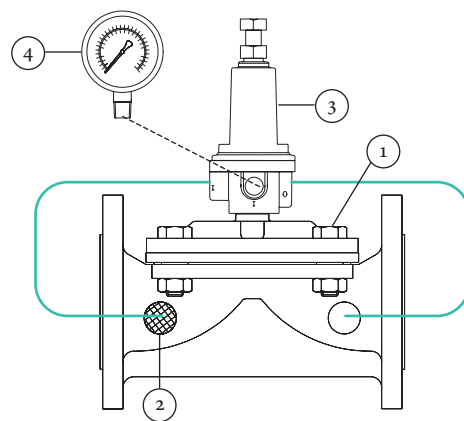
Technical Specifications

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

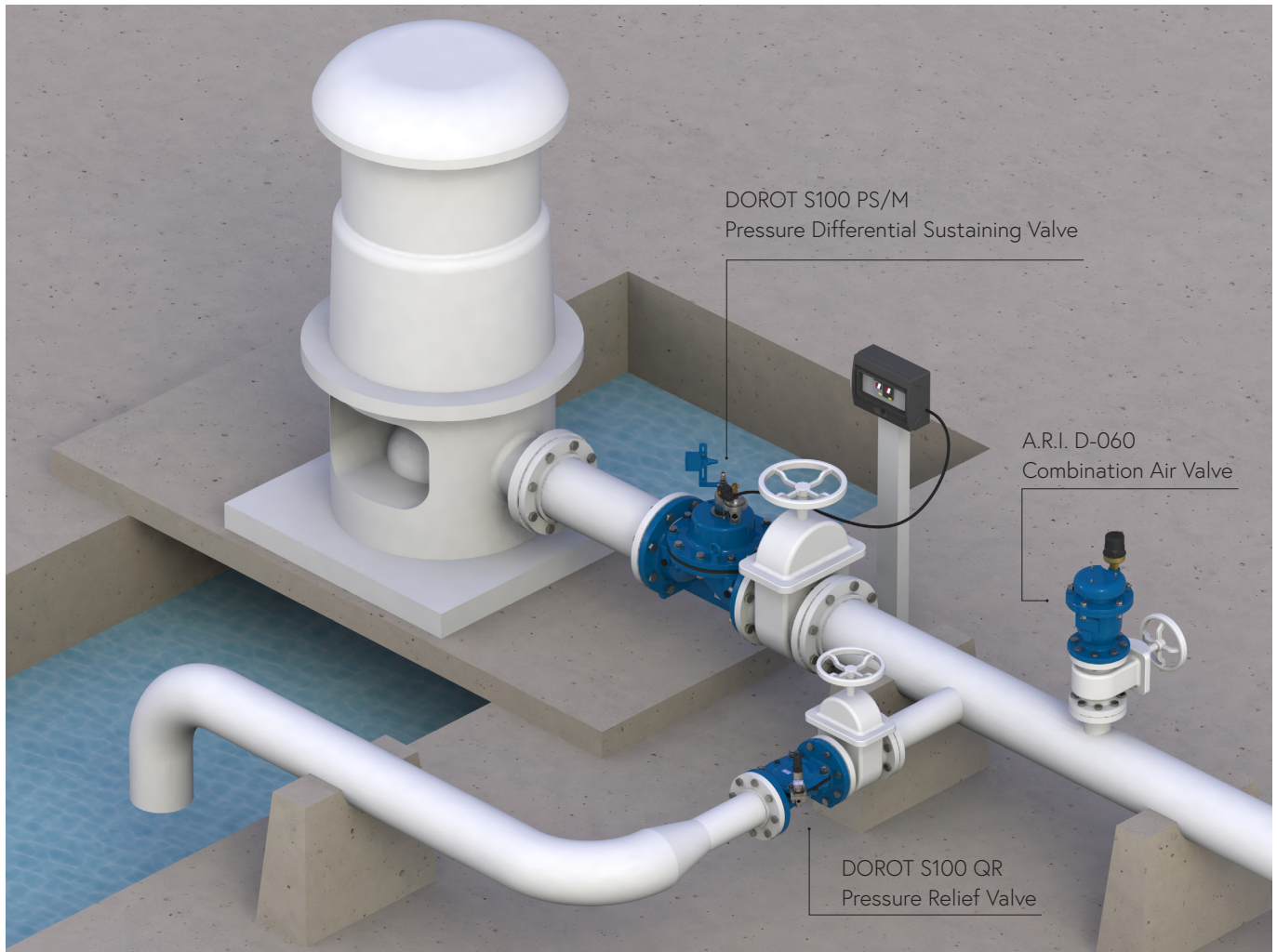
* Other options are available upon request.

Main Control System Components

No.	Component
1	Main Valve
2	Self-flushing filter
3	Quick Pressure Relief Pilot Valve
4	Pressure Gauge



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 quick pressure-relief pilot valve, which opens the valve in under one second at a high-pressure set-point.

Design Considerations

- Install a manual separation valve upstream of the quick relief valve for maintenance.
- The valve opens instantly and fully at the set pressure. To regulate system pressure, use a pressure sustaining-relief valve and not a quick relief valve.