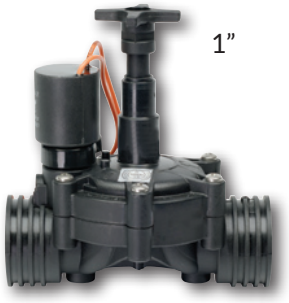
SOUTHERN IRRIGATION
Intelligent Water Solutions

Dorot Nylon 2-way Valves



APPLICATIONS

- Agriculture, Greenhouse, Nursery, Landscape
- Cooling Systems

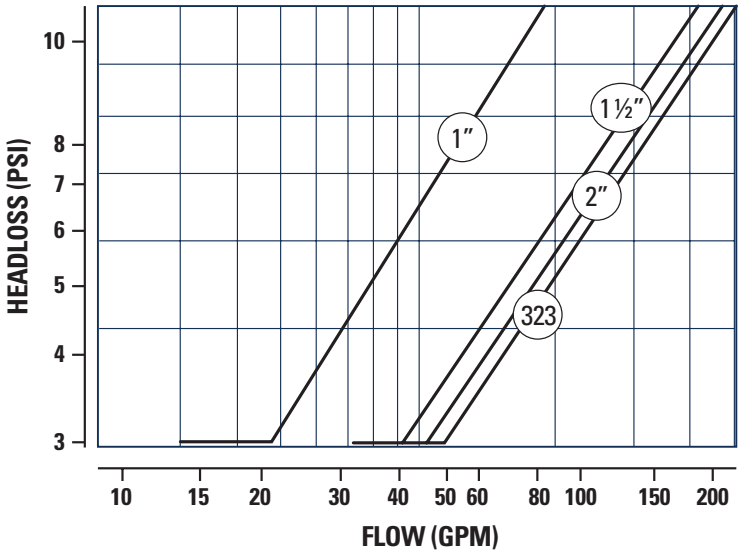
FEATURES

- Durable, glass reinforced nylon construction provides superb hydraulic performance.
- Large internal water passage with no moving parts in the flow path prevents clogging.
- Built-in 2-way solenoid with low power requirement for ease of operation and reliability.
- Simple installation either vertically or horizontally.
- High resistance to corrosive water containing fertilizer and chemicals.
- Standard with a flow control (throttling) handle.

SPECIFICATIONS

- Maximum working pressure: 1”: 115 psi
  1.5” to 323: 150 psi
- Maximum water temperature: 60° C (140° F)
- Connections: Female threaded NPT
- Electrical Specs: Voltage: 24VAC, 60Hz (standard)
  Inrush current: 29mA
  Holding current: 14mA
  Allowable voltage variation: 10%

FLOW RATE VS. PRESSURE LOSS



LIGHT BLUE AREA INDICATES RECOMMENDED OPERATING RANGE.

FLOW RANGE

Size	GPM
1”	1-50
1 1/2”	1-125
2”	1-176
323	1-264

DIMENSIONS & WEIGHT

Size	Length	Height	Weight
1”	4 7/8”	4 7/8”	.5 lbs
1 1/2”	7 3/8”	6”	2.0 lbs
2”	7 7/8”	6”	2.2 lbs
323	9 1/4”	6 5/8”	3.1 lbs

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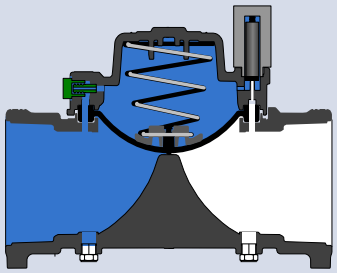
HOW A 2-WAY SOLENOID VALVE WORKS

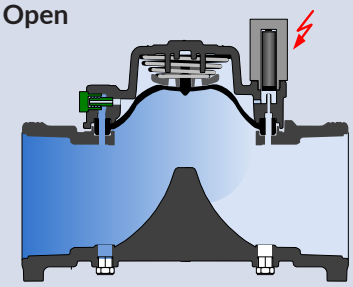
Closed

A solenoid plugs the control chamber's outlet. A permanent connection from the upstream through a labyrinth restriction ensures line pressure into the chamber closing the valve.



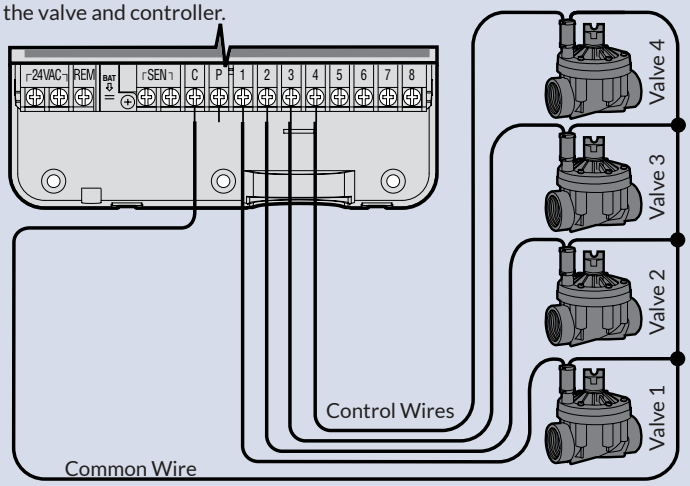
Open

Energizing the solenoid operator opens a drain to the downstream, allowing the valve to open.



WIRING INSTRUCTIONS

Each solenoid has two wires; a common wire and a control wire.
Connect each control wire to its corresponding numbered terminal on the controller.
Connect each common wire together and connect them to the "C" (common) terminal on the controller.
Be sure to use the appropriate wire gauge suitable for the distance between the valve and controller.



RELATED PRODUCTS

Pressure Regulating Valves
Reduces water pressure in the system.

Filters
Remove sediment from water to prevent plugging in the system.

Valve Wire
Carries a signal from valve controller to solenoid valve. Available in multi or single strand.

Valve Boxes
A clean way to install valves and other irrigation components subsurface.
A removable lid allows access into the box.

Drip Irrigation
Put water exactly where its required. Very efficient water use compared to sprinklers.

Flow Meters
Measure the consumption of water.

Valve Controllers
Schedules solenoid valves to control the irrigation system.

Manual Valves
Control the flow of water. Recommended to be installed before a solenoid valve to allow service to the valve without shutting down the system.