

DC-500 / DC-501

Next Generation Begins

DC-501 Industry First All Composite Assembly



DC-501



Backflow Preventer -Double Check Valve

Description

The Double Check Valve Series: DC-500, DC-501 are designed to supply maximum protection against backflow caused by back siphon or backpressure. Backflow may cause infiltration of chemicals, fertilizers and/or other pollutants into potable water systems.

The Double Check Valve is reliable and easily maintained, without the need for special tools. It is built with two independent, easily replaceable capsulated spring-loaded check valves.

Applications

- Chemical and fertilizer systems in landscape and irrigation.
- Swimming pools
- Small Business
- Private Homes
- According to local regulations

Main Features

- Sizes: 1/2", 3/4", 1", 1 1/2", 2"
- Working Pressure: 150 psi.
- Working Temp Range: 33° to 110° F
- DC valve and Shut-off valve made from composite plastic material, resistant to corrosion, scaling, fertilizers, herbicides, insecticides, etc.
- Internal control system ensures reliability and safety
- Easy and quick installation
- Economical to operate
- Lightweight
- UV resistant
- No lead
- Low Head-Loss
- Meets international standards
- Specially suited for plastic piping
- Variety of installation options
- Long working life with easy maintenance

The ARI DC-500/501 is approved by the following **Standards Authorities**:



ASSE 1015, AWWA, NSF 61, Water Mark (Australia), AS2845.1., ACS (France), Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (USC), Listed to Uniform Plumbing Code.

Installation

- A. Install the Double Check Valve in a location accessible for periodic field testing and maintenance.
- B. Before installing the Double Check Valve, thoroughly flush all upstream piping to remove debris.
- C. Mount the Double Check Valve in a horizontal position with adequate clearance from walls and/ or obstructions
- D. It is recommended that a "Y" strainer be installed before the inlet of the Double Check Valve to prevent debris from entering the device.
- E. After installing the assembly, close the Outlet Shut-off Valve, pressurize the Double Check Valve and release the air through Test Cock #4. Then, open the Outlet Shut-off Valve.

Installation Recommendations

- Do not install in areas subject to extended periods of freezing temperatures.
- The product must be protected from excessive pressure increases, which are caused by thermal expansion or water hammer and can damage the valve.
- DO NOT USE ANY PIPE DOPE, OIL GREASE OR SOLVENT ON ANY PARTS unless instructed to do so.
- Parts should fit together freely. Do not force parts to fit.

DC-501

PARTS LIST

No.	Part Description
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- | | |
|-----|--------------------------------|
| 1. | Cover Assembly |
| 2. | Inlet Check Valve Assembly #1 |
| 3. | Retainer |
| 4. | Outlet Check Valve Assembly #2 |
| 5. | Cover Seal |
| 6. | Inlet Shut-Off Valve |
| 7. | Clamp Assembly |
| 8. | Body Assembly |
| 9. | Outlet Shut-Off Valve |
| 10. | Test Cocks |






DC-501




DIMENSIONS AND WEIGHT

Model	Dimensions Inch			Weight Lbs.	Inlet Nylon Valve	Outlet Nylon Valve
	A	B	C			




DC-501 Shut-off Valves with Union Connection - reinforced nylon

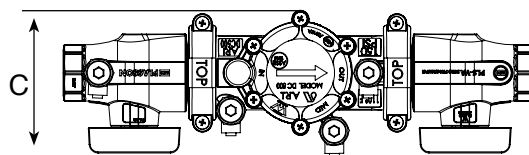
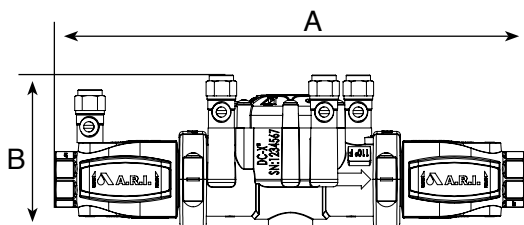
	3/4"	12.60	4.39	3.94	2.98	 
	1"	14.17	4.39	3.94	2.92	
	1 1/4"	18.27	6.57	5.91	7.23	
	1 1/2"	20.47	6.57	5.91	8.71	
	2"	22.83	6.57	5.91	8.85	

DC-500 Shut-Off Valves - reinforced nylon

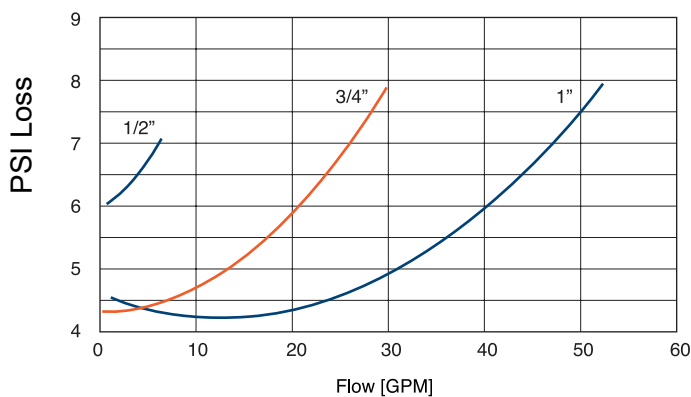
	3/4"	14.02	4.39	3.94	2.95	 
	1"	15.35	4.39	3.94	3.38	
	1 1/4"	19.69	6.57	5.91	7.69	
	1 1/2"	22.05	6.57	5.91	9.33	
	2"	23.62	6.57	5.91	9.71	

DC-500 Shut-Off Valves - Lead Free Bronze

	1/2"	11.81	4.39	3.94	3.62	 
	3/4"	12.40	4.39	3.94	3.62	
	1"	12.99	4.39	3.94	4.49	
	1 1/4"	18.50	6.57	5.91	6.72	
	1 1/2"	19.02	6.57	5.91	7.83	
	2"	20.28	6.57	5.91	10.30	



Pressure Loss



Pressure Loss

