

# DC-501

## Double Check Assembly



USC Listed & Approved!

## New Generation Begins...

The First All Composite Double Check Backflow Preventer in The World!

### Description

The Double Check Valve Series: DC-500, DC-501 are designed to supply maximum protection against backflow caused by back-siphonage 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

- Irrigation Systems with chemical and fertilizer injection
- Swimming pools
- Small Business
- Private Homes
- According to local regulations

### Main Features

- Sizes: 3/4", 1", 1 1/2", 2"
- Working Pressure: 150 psi.
- Working Temp Range: 33° to 110° F
- Made from composite materials: corrosion and scale resistant
- Internal control system ensures reliability and safety
- Easy and quick installation
- Economical to service; low-cost repair parts
- Lightweight
- UV Resistant
- No lead
- Low Head-Loss
- Variety of installation options
- Long working life with easy maintenance

### Authority Approval Standards

A.R.I. 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.



### Design Innovation

*New Composite Backflow Technology*

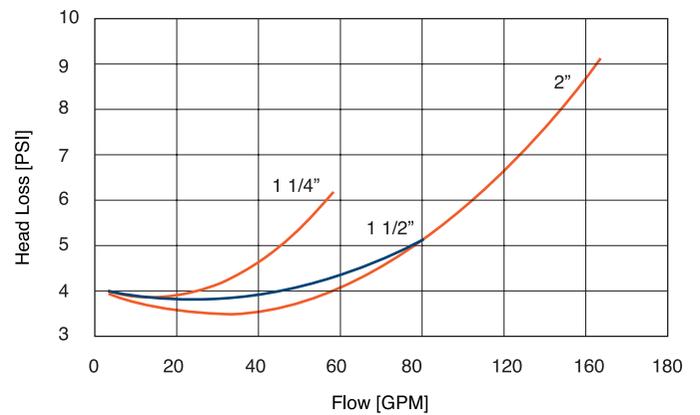
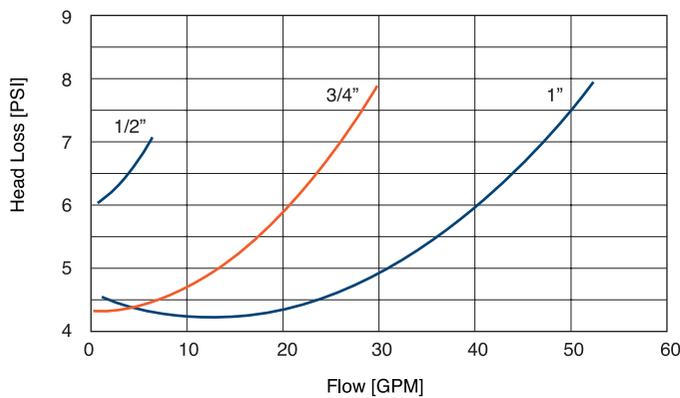


## RP-501 Parts List and Description

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



## Pressure Loss



## DIMENSIONS AND WEIGHT

| Model | Dimensions Inch |   |   | Weight Lbs. | Inlet Composite Shut-Off- Valve | Outlet Composite Shut-Off- Valve |
|-------|-----------------|---|---|-------------|---------------------------------|----------------------------------|
|       | A               | B | C |             |                                 |                                  |

### DC-501 Shut-Off Valves with Union Connection - Reinforced Nylon Composite

|   |        |       |      |      |      |   |   |
|---|--------|-------|------|------|------|---|---|
|  | 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"     | 21.53 | 6.57 | 5.91 | 8.85 |   |   |

### DC-500 Shut-Off Valves - Reinforced Nylon Composite

|   |        |       |      |      |      |   |   |
|---|--------|-------|------|------|------|---|---|
|  | 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 - No-Lead 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 |   |   |

