Dual Disc® Check Valve

Wafer Style

Grooved End
Dual Disc® Check Valve

Model Numbers

- Series 8800 – Water Service
- Series 8900 – Air Service

End Connections

- W – Wafer Style
- G – Grooved End
- L – Lug Style (48”-60” only)
Dual Disc® Check Valve Competition

Apco
Crispin
GA
Flomatic
Mueller
Milliken
Components

A. Retainer Plugs
B. Stabilization Spheres
C. Thrust Bearing
D. Hinge Pin
E. Spring
Dual Disc® Check Valve

Components

F. Vulcanized Seat
G. Body
H. Disc
I. Stop Pin
Dual Disc® Check Valve

Materials of Construction

Body: 2” – 12” Ductile Iron
       14” – 60” Cast Iron
Pin: 316 Stainless Steel
Spring: 316 Stainless Steel
Disc: 2” – 12” Bronze
       14” – 60” Aluminum Bronze
Seat: Vulcanized Buna - N
Disc In Closed Position …

Clearance Completely Around Pivot Pin

Lift & Pivot
Dual Disc® Check Valve

Lift & Pivot

Contact Made, Pivot of Disc Begins

Heal Lifts As Flow Begins...
Dual Disc® Check Valve

Lift & Pivot

Disc Pivots As Flow Increases...
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Lift & Pivot

Spring Forces Toe to Sealed Position First

Toe Touches As Flow Diminishes...
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Lift & Pivot

Disc Reseated, Flow Stopped.
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Disc Stabilization

Flow Forces Disc Firmly Against Stop Pin
Non-Overlap design causes indentation ridges – can result in leakage.

Val-Matic overlap design provides a positive seal.
Dual Disc® Check Valve

- Hard synthetic spheres
- Inserted into the pivot and stop pin holes
- Compressed against the pins and effectively stabilize them during flow conditions, eliminating vibration and wear
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Pressure Sensitive Seating

Low Pressure:
Minimum Contact

High Pressure:
Full Contact
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Technical Data

1. Velocity
   5-15 FPS Recommended

2. End Connections
   Wafer Style Design to ANSI B16.1
   VIC End Connection
   End Connection – Flat Faced

3. 2” – 12” Dual Rated for ANSI & PN10/16
4. Temperature – Seal -70° to 250°F

5. Pressures – 0 to 250 PSI

6. Size Range – 2” thru 60”
Dual Disc® Check Valve

Options

1. Grooved End
   Lug Style Design (48” – 60”)
2. Epoxy Coating
   Fusion Bonded Epoxy (14” and up)
3. Light Weight Springs (Air Service)
4. Viton Seat (14” and up)
5. Ductile Iron Disc (14” and up)
   E.N.P. – Electroless Nickel Plating
1. Pump Discharge (Low Turbidity)
2. HVAC
3. Blower Service
   ● Need SCFM, Temperature & Pressure
   ● Consult Factory
4. Fire Pump Systems
5. Foot Valve
Dual Disc® Check Valve

Installations

1. Horizontal
   Pipe plug must be in vertical position

2. Vertical Flow Up
1. Features
   • Lift & pivot
   • Stabilization spheres
   • Double bead for 10” & larger
   • Disc seal overlap
   • Disc stabilization
   • Flow Sensitive Closure: spring assisted

2. Vulcanized Seats
   • Pressure sensitive

3. UL/FM Approved 2 ½” – 12”
Pricing

Price of a 12” Grooved End for Water

$1,011

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