

## Double Flap Airlock® Valves

### Solving material handling problems that no other valve can handle.

*"In April of 2006, we installed Plattco shaft seal assemblies. We were very pleased with the performance as the leakage was completely eliminated from that valve. In June 2006, we installed the new Plattco shaft seal assemblies on the other valve and are pleased to report that we have had no leaks from either valve since that time.*

*"The installation went well as the bearings and seal are both contained in the assembly. Prior to installing the new Plattco seal assemblies, we spent between 150 and 200 man hours on problems directly related to leakage of the seals -- which translates into \$12,000 to \$16,000 just in labor alone, not to mention parts. Since that time, labor hours on anything related to the seals or bearings has dropped to 0 (not counting routine maintenance). Needless to say, we are very pleased with the Plattco seals and would recommend using them."*

**Jim Warnock, Omya California Inc.**

For companies like Omya California Inc. who need a seal that won't leak, they choose -- and recommend -- Plattco Valves. They know with Plattco Double Flap Airlock® Valves they will get a valve that will

- ♦ ensure a reliable, long-lasting seal ... even when the material is abrasive or corrosive... pressurized or subject to extreme temperatures;
- ♦ be easy and inexpensive to maintain for decades of "like new" operation; and,
- ♦ fit their specific applications, using Plattco's 50+ years of experience custom engineering valves for facilities all over the world.

### Plattco's Double Flap Airlock® Valve / R-Series

**The Radial** valve that combines all the features of the H-Series with an air tight radial seat and flapper.

#### Excellence in Design

No rotary action means no need to build clearance (leakage) into the valve.

Double flaps ensure that the seal is never broken throughout filling and emptying the valve.

All-cast construction for consistency, proprietary alloys for durability and wear resistance, seat and flapper precision-machined to eliminate air leakage.

Large throat opening eliminates bridging, jamming and material build-up.

In pressurized applications, Plattco's patented mechanical seal eliminates the potential for shaft-seal leakage.

Seat and flapper can be reground several times to bring them back to "like new" condition and performance.

Housing is not part of the seal -- allowing it to last for decades in the worst operational environments.



Pneumatically Operated  
R-Series Valve



# Plattco Corporation

founded in 1897

When your process is critical, when conditions are demanding,  
When your valve has to work, it has to be a **Plattco Valve**.

Plattco.com  
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USA/domestic calls: 1.800.352.1731  
7 White Street, Plattsburgh NY USA 12901

## R-Series / *The Radial*

Inlet / Outlet Sizes (inches):  
6, 8, 10, 12, 16, 18, 24

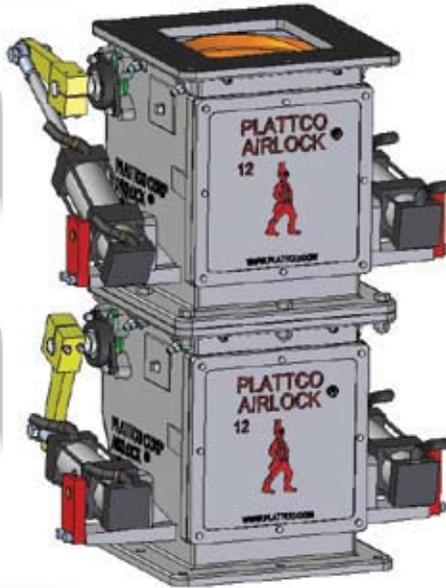
Capacity Expanding Spool  
(inches in height): 2 - 30

Seat & Flapper Design:  
Knife Edge, O-Ring

Seat & Flapper Materials:  
Ni-Hard, Plattalloy 650,  
Ni-Resist, Stainless Steel

Operators: Pneumatic,  
Rotary Actuator, Electrical,  
Hydraulic, Gravity

Valve Body Materials:  
Cast Iron, Ni-Resist, Cast  
Steel, Stainless Steel



Shaft Seals: Standard Graphite  
Packing, Lantern Rings,  
Injectable, Mechanical (*Patented*)

Maximum Material  
Temperature:  
1800° F

Maximum Differential  
Pressure (above & below  
the valve): 40 psi

### Easy To Maintain:

The inside of the valve (including seat and flapper) can be reached through access covers in the bodies of the valves (optional Camlock Covers offer even quicker access).

Seat and flapper (which provide the seal) can be quickly replaced without moving the valve or taking it out of service.

Outboard mounted shaft bearings allow for air circulation, are easy to reach and maintain; allow for easy shaft seal adjustment or replacement.

Seal pocket modular cartridge makes it quick and easy to change or adjust the shaft seal to as new condition in-line.

Numerous maintenance-friendly features, such as:

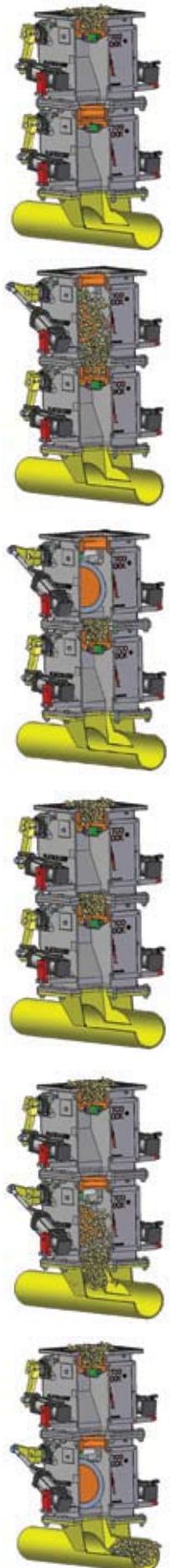
- ♦ Stainless steel shafts
- ♦ Pipe plugs for the removal of flapper pins
- ♦ Heavy duty air cylinders
- ♦ In-line replacement wear bushings in the arms
- ♦ External seat adjustment screws
- ♦ Keyed links & arms provide for precision positioning

### Options Available:

Air Cooling Jets  
Air Cylinder Heat Shield  
Camlock Access Covers  
Cylinder Rod Boots  
Dust Deflectors  
Expansion Joints

Four Way Directional Valve  
High Temperature Bearings  
Mechanical Limit Switch  
NEMA Enclosures  
Optional Gear Ratios  
Proximity Switch

Rod End Bearing Seals  
Safety Guards  
Timers  
Viton Air Cylinders  
Zero Speed Switch



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