

## Double Flap Airlock® Valves

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

*"The Plattco model PCV-0822-11 Double Flap Airlock® Valves have improved my cyclone's efficiency significantly. We also noticed a reduction in our emissions due to the reduced amount of false air that was allowed back into the cyclones. This reduction in the false air also reduces the load on the ID fan, which means less horsepower and less electrical costs!*

*"We encounter less maintenance and down time with the Plattco valves because the design allows for the passage of foreign objects such as bolts and welding rods, which is typically seen after boiler outages/repairs. We have had Plattco valves in for five years and they have required very little maintenance, and very few replacement parts."*

**Ron Brown, Constellation Energy**

For lower-maintenance, more efficient valves, companies like Constellation Energy choose Plattco Double Flap Airlock® Valves for 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 / PCV-Series

**The Pollution Control Valve** provides a lower-cost alternative that is perfect for pollution control systems and other low pressure ( $\leq 2$  psi) applications, with the same profile as the S8 Series.

#### 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.

Proprietary design eliminates bridging, jamming and material build-up.

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.



Gravity Operated PCV-Series Valve  
(cover removed to show easy access to seat & flapper)



# Plattco Corporation

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

Plattco.com  
email: [info@Plattco.com](mailto:info@Plattco.com)  
international calls: 1.518.563.4640  
USA/domestic calls: 1.800.352.1731  
7 White Street, Plattsburgh NY USA 12901

PCV-Series / **Pollution Control Valve**

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

Capacity Expanding Spool  
(inches in height): 2 - 24

Seat & Flapper Design:  
Classic, Knife Edge

Seat & Flapper Materials:  
Plattalloy #3

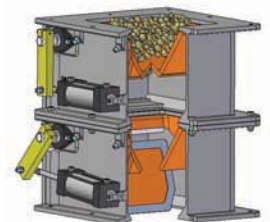
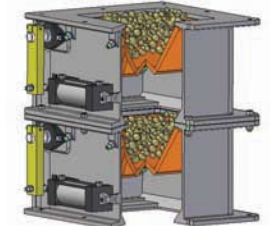
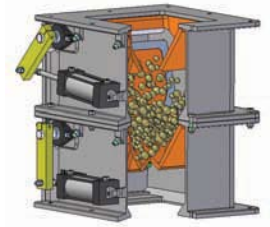
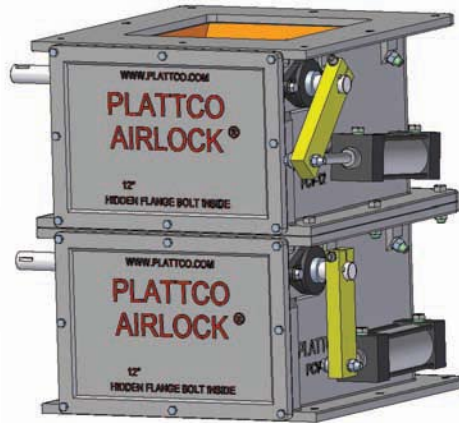
Operators: Pneumatic,  
Rotary Actuator, Electrical,  
Hydraulic, Gravity

Valve Body Materials:  
Cast Iron

Shaft Seals: Standard  
Graphite Packing

Maximum Material  
Temperature:  
750° F

Maximum Differential Pressure  
(above & below the valve): 2 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. Seat and flapper (which provide the seal) can be quickly replaced without moving the valve or taking it out of service.

Numerous maintenance-friendly features, such as:

- ♦ Stainless steel shafts
- ♦ External seat adjustment screws
- ♦ Heavy duty air cylinders
- ♦ In-line replacement wear bushings in the arms
- ♦ Keyed links and arms provide for precision positioning

**Options Available:**

- |                            |                         |                       |
|----------------------------|-------------------------|-----------------------|
| Cylinder Rod Boots         | Mechanical Limit Switch | Rod End Bearing Seals |
| Dust Deflectors            | NEMA Enclosures         | Safety Guards         |
| Expansion Joints           | Optional Gear Ratios    | Timers                |
| Four Way Directional Valve | Proximity Switch        | Zero Speed Switch     |



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