

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

**John Holiday,  
Essroc**

*"The Plattco Double Flap Airlock® Valves that Essroc chose to purchase instead of a conventional screw pump have saved us many thousands of dollars in electricity and maintenance over the past year.*

*"They have required very little maintenance and very few replacement parts."*

**Jim Warnock,  
Omya California Inc.**

*"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."*

**Mark Cooke,  
US Steel**

*"Before the Plattco valves were installed, the rotary valves' vanes would pack with dust or foreign objects and not convey material very well. Plattco valves do not experience these plugging problems.*

*"The conversion was straightforward, technical support was excellent and the conversion to Plattco valves eliminated the constant vane adjustment maintenance necessary with rotary valves. We have had Plattco valves since 1999, and they have required very little maintenance and very few replacement parts."*

**Ron Brown,  
Constellation Energy**

*"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."*

## Solving material handling problems that no other valve can handle. **Plattco Double Flap Airlock® Valves**

To reduce maintenance time, increase efficiency and lower costs, companies around the world choose Plattco when they need 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

fit their **specific applications**, custom engineered based on Plattco's 50+ years of experience designing exceptionally performing valves



Pneumatically Operated  
H-Series Valve



# Plattco Corporation

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# Plattco Corporation

— founded in 1897

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**Plattco.com**

## H-Series

1800° F  
Maximum Material Temperature

40 psi  
Maximum Differential Pressure\*



**H-Series**  
**The Premiere Valve** in dry material handling with thousands of successful applications in industries throughout the world.

**Inlet/Outlet Sizes:** 6, 8, 10, 12, 16, 18, 24  
**Capacity Expanding Spool Pieces** (inches in height): 2 - 30  
**Operators:** Pneumatic, Rotary Actuator, Electrical, Hydraulic, Gravity  
**Valve Body Materials:** Cast Iron, Ni-Resist, Cast Steel, Stainless Steel  
**Seat & Flapper Materials:** Ni-Hard, Plattalloy 650, Ni-Resist, Stainless Steel  
**Seat & Flapper Design:** Classic, Knife Edge  
**Shaft Seals:** Standard Graphite Packing, Lantern Rings, Injectable, Mechanical (*Patented*)

## R-Series

1800° F  
Maximum Material Temperature

40 psi  
Maximum Differential Pressure\*



**R-Series**  
**The Radial Valve** that combines all the features of the H-Series with an airtight radial seat and flapper.

**Inlet/Outlet Sizes:** 6, 8, 10, 12, 16, 18, 24  
**Capacity Expanding Spool Pieces** (inches in height): 2 - 30  
**Operators:** Pneumatic, Rotary Actuator, Electrical, Hydraulic, Gravity  
**Valve Body Materials:** Cast Iron, Ni-Resist, Cast Steel, Stainless Steel  
**Seat & Flapper Materials:** Ni-Hard, Plattalloy 650, Ni-Resist, Stainless Steel  
**Seat & Flapper Design:** Classic, Knife Edge  
**Shaft Seals:** Standard Graphite Packing, Lantern Rings, Injectable, Mechanical (*Patented*)

## S8-Series

1800° F  
Maximum Material Temperature

15 psi  
Maximum Differential Pressure\*  
(higher pressure options in some applications)



**S8-Series**  
**The Low Profile Valve** is built with the same rugged design as our famous H-Series valve at roughly half the height for applications where headroom is restricted.

**Inlet/Outlet Sizes:** 6, 8, 10, 12, 16, 18  
**Capacity Expanding Spool Pieces** (inches in height): 2 - 24  
**Operators:** Pneumatic, Rotary Actuator, Electrical, Hydraulic, Gravity  
**Valve Body Materials:** Cast Iron, Ni-Resist, Cast Steel, Stainless Steel  
**Seat & Flapper Materials:** Ni-Hard, Plattalloy 650, Ni-Resist, Stainless Steel  
**Seat & Flapper Design:** Classic, Knife Edge  
**Shaft Seals:** Standard Graphite Packing, Lantern Rings, Injectable, Mechanical (*Patented*)

## PCV-Series

750° F  
Maximum Material Temperature

2 psi  
Maximum Differential Pressure\*



**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.

**Inlet/Outlet Sizes:** 6, 8, 10, 12  
**Capacity Expanding Spool Pieces** (inches in height): 2 - 24  
**Operators:** Pneumatic, Rotary Actuator, Electrical, Hydraulic, Gravity  
**Valve Body Materials:** Cast Iron  
**Seat & Flapper Materials:** Plattalloy #3  
**Seat & Flapper Design:** Classic, Knife Edge  
**Shaft Seals:** Standard Graphite Packing

## T-Series & U-Series

750° F  
Maximum Material Temperature

2 psi  
Maximum Differential Pressure\*



**T-Series & U-Series**  
**Our High-cycling T-Series and U-Series Maintenance Gates** are compatible with all Plattco Double Flap Airlock® Valves or as stand-alone maintenance gates.

**Inlet/Outlet Sizes:** 8, 10, 12  
**Operators:** Pneumatic, Hand Wheel  
**Valve Body Materials:** A36 Steel (T-Series); Cast Iron (U-Series)  
**Gate Material:** Stainless Steel  
**Drill Pattern:** Distinct pattern allows gates to remain in place if equipment below needs to be removed.

## 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.

Full-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.

## Why is Plattco's reliable, long lasting seal important?

Air leakage deteriorates system capacity, efficiency and cost-effectiveness. When the amount of material needed for production is reduced, the result is lower sales, decreased profits and dissatisfied customers.

When your seal isn't reliable, the result is emissions into the atmosphere and possible EPA violations. The dust which develops in your internal working environment could also translate into possible OSHA and MSHA violations.

## Custom engineering ensures the right valve for your application.

Plattco invented the double flap valve and has more than 50 years experience creating thousands of successful applications, in dozens of industries around the world.

We make our living solving material handling problems that no other valve can handle. It's the only thing we do. Our organization concentrates on designing, engineering, building and delivering the best valve in the world.

Over the past 50 years, we have developed and proven the best performance options in valves:

- Four valve models
- Many sizes of each model
- Spool pieces provide an inexpensive option to increase volume throughput
- Several materials, from cast iron to stainless steel, to handle extremes of material properties and temperatures.

Plattco's Double Flap Airlock® system ensures the seal is never broken...

