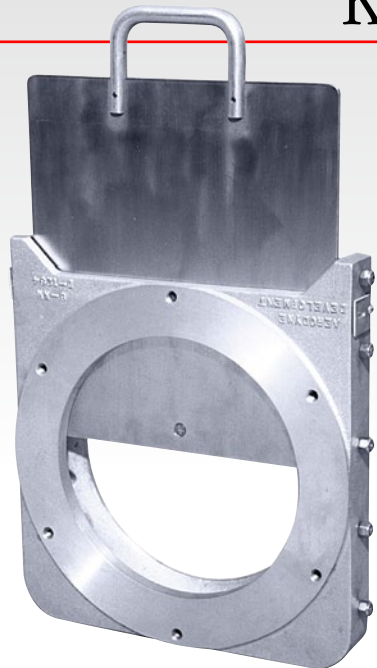
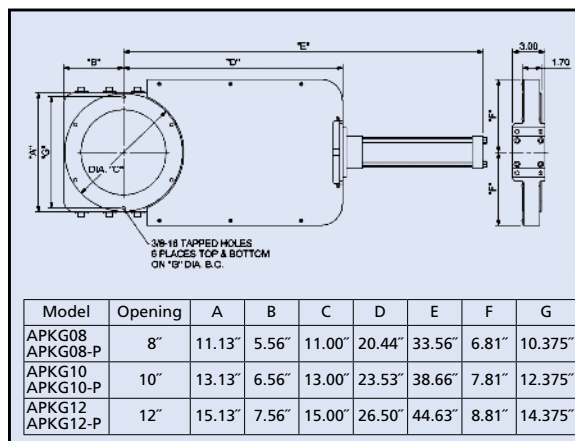


# Knife Gate

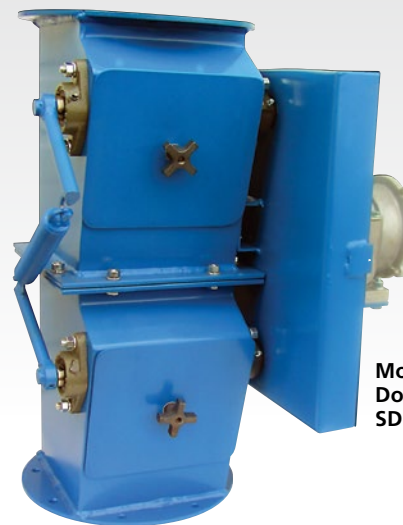


Aerodyne has a large selection of Knife Gate Valves that can be used to handle a variety of materials and operating conditions. From low-cost manual valves to pneumatic and hand crank valves, Aerodyne has a knife gate for almost any application. Standard Knife Gate Valves are constructed with cast aluminum bodies, stainless knives, and molded nylon roller guides.

A variety of sizes are available in both round and square configurations. Aerodyne has knife gate valves for open hopper discharge or in-line use with some capable of closing through a static column of material.

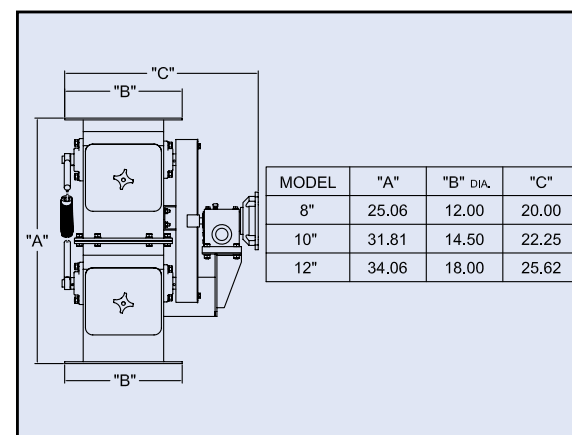


# Double-Dump™ Valve



Model shown: Double-Dump SD Valve

The Double-Dump Valve works where standard rotary valves can't do the job. It can feed and move chunky or fibrous material that would jam rotary valves. It can effortlessly move abrasive material that would normally tear up rotary valves, such as fiberglass pellets, wood chips, and dog food. The Double-Dump Valve uses tandem gates to maintain the proper pressure above and below the valve. It has a spring-reinforced closure mechanism, with a gate system to ensure a positive air seal under negative pressure, with no seepage of outside air. The Double-Dump Valve can be configured to operate using air or electricity. It is typically put into low negative pressure systems. Rotary-free functions provide low maintenance operation in dust collecting systems. Double-Dump Valves are used to maintain an even flow of material through processing systems.



# Material Handling and Dust Collection Valves



# Vacu-Valve®

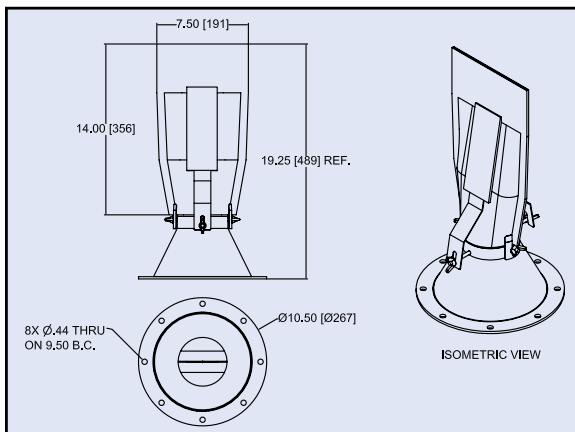


Open Construction  
Platypus™  
Valve

Enclosed Construction  
Armadillo™  
Valve

The Vacu-Valve trickle valve is the most economical and worry-free way to handle dust discharge from bag filters or cyclones under negative pressure. They require no lubrication, power source, or controls. They can withstand abrasive materials well and can be used in higher temperature applications. The Vacu-Valve discharges material continuously, not in batches. When the system is shut down, the valves discharge all residual material completely.

- Open or enclosed construction models available
- Inexpensive
- No electricity needed
- Carbon or stainless steel
- Neoprene, VHT high-temp, or white nitrile duckbill sleeves
- Max. vacuum: 16" water gauge negative
- Max. temperature 400°F

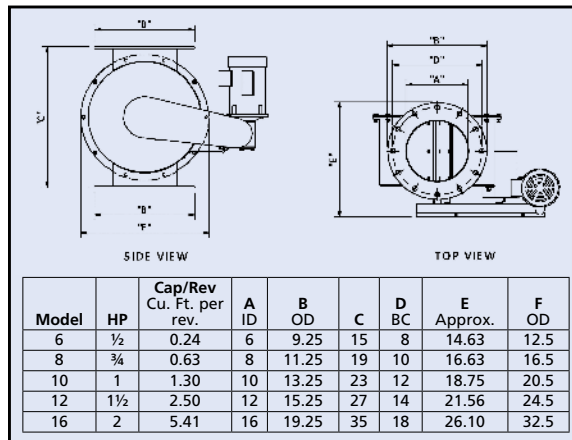


# Rhino™ Rotary "R" Valve

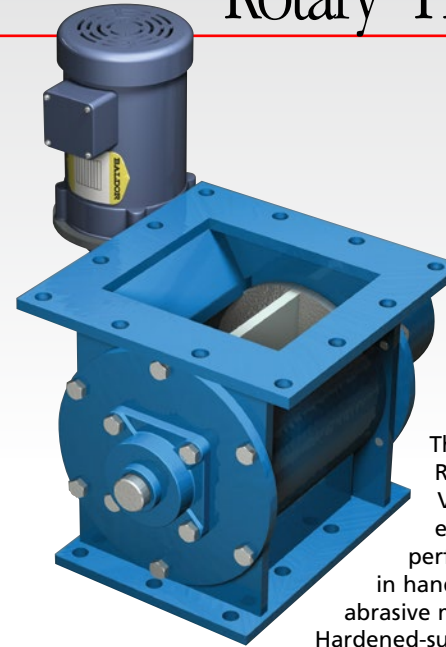


The Aerodyne Rhino Rotary "R" Valve is designed for continuous discharge of dry, free-flowing, low-abrasive solids in gravity flow or low-pressure systems. This rotary airlock is equipped with neoprene rubber tipped rotor vanes, ensuring minimal air leakage and cost-efficient maintenance. Widely used in applications such as the bottom of cyclonic dust collectors and baghouse hoppers, the Rhino Rotary "R" Valve's steel plate construction gives it a distinct advantage in quality, flexibility and durability over cast valves. Optional urethane tipped rotor vanes, explosion-proof drive motor, and stainless steel construction are also available upon request.

Specialty valves are available upon request for hard-to-handle materials such as fiberglass. Contact Aerodyne for details.



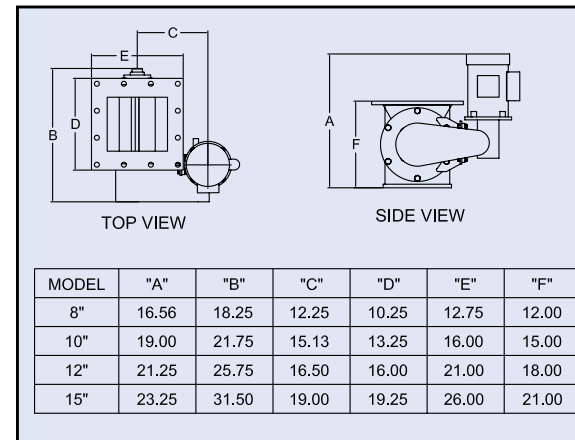
# Rotary "H" Valve



The Aerodyne Rhino Rotary "H" Valve provides exceptional performance in handling highly abrasive materials. Hardened-surface rotor vane tips and added clearance

outside the the rotor shroud allow the rotary "H" Valve to operate smoothly without packing or excessive wear. Used as an airlock feeder, the Rhino "H" valve can be used in pressure ranges from 30 inches water negative to 2 psig and in temperatures up to 200°F. This valve is equipped with a standard 4-vane rotor, outboard bearings for easy maintenance, and a TEFC motor.

Options include 6- and 8-vane rotors, explosion-proof drive motor, and high temperature models equipped to handle up to 750°F.



# About Aerodyne

Aerodyne products have been leading the way in the material handling and air pollution control industries since 1949. Specializing in material handling valves and cyclonic dust collectors, Aerodyne has been solving dry material handling problems for over 60 years. With a full line of double dump valves, rotary airlock feeder valves, slide gate valves, and Vacu-Valves, Aerodyne can meet any material handling need.

## Companies That Use Aerodyne Products:

- 3M
- Dow
- Alcan
- Johns Manville
- Georgia-Pacific
- Morton Salt
- Grede Foundries
- DuPont



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