

ELECTRIC MODEL

- Valve flaps are powered open, are closed by counterweights and are self-flushing if overloaded.
- Operating linkages have spherical rod end bearings for proper alignment.
- Factory-set slip clutches prevent damage to the drive in the event the valve becomes jammed.
- Gear boxes are spring mounted to absorb possible impact shocks or overloads.
- TEFC motors are available in any standard voltage requirements.



PNEUMATIC MODEL

- Valve flaps are powered open and powered closed. Cylinder pressure holds flaps closed, guaranteeing a positive seal.
- Each cylinder has two flow control valves to control stroke speed and prevent slamming.
- Operates on low volumes of 30 to 50 psig compressed air.
- Control packages are available for single or multiple valve operation, including solenoid valves, timers and relays in a NEMA 12 enclosure.
- Cylinder mounted solenoid valves and position indicating switches are also available.



EXPANSION JOINTS

We design, manufacture and install all types of expansion joints in any size. Single or multiple round top metal bellows and fabric joints are available.

ACCESS DOORS

Ruggedly designed for quick opening and tight shut-off, ProcessBarron access doors, in four standard sizes, are in stock and ready for immediate shipment.

MATERIAL HANDLING SYSTEMS

ProcessBarron offers a complete line of boiler fuel feed and ash handling systems including: live bottom screw bins, chain reclaim bins, ash drag chain conveyors, bottom ash submerged drag chain conveyors, ash silos and ash conditioning systems.

DAMPERS

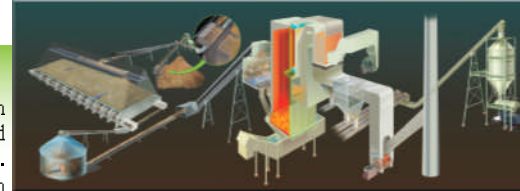
Flow control and isolation dampers are designed for specific applications. Rugged construction and experienced engineering result in a product that provides years of dependable, trouble-free service.

MECHANICAL DUST COLLECTORS

Our heavy-duty construction insures minimal maintenance, while providing maximum collection efficiency. Tube sizes vary for dust characteristics. Modular construction reduces installation costs.

TURN-KEY SYSTEMS

We have our own in-house Engineering Department, capable of producing custom designs to make our equipment suit your needs. We design complete flue gas handling systems from your process discharge to the top of the stack.



NEW FANS

ProcessBarron designs, furnishes and installs radial blade, radial tip, backward inclined, airfoil and specialty fans, designed and available in a variety of metallurgy for the most severe applications.

DOUBLE-DUMP VALVES

Our double and single dump valves for bins and hoppers are cast in 8", 10" and 12" sizes, operated electrically or pneumatically and stocked for immediate shipment.

BALANCING, VIBRATION ANALYSIS

ProcessBarron offers regularly scheduled vibration inspections and analysis to prevent problems. On-site balancing is available with the latest dynamic balancing equipment.

PREVENTIVE MAINTENANCE

All rotating equipment can suffer from the destructive forces of vibration. ProcessBarron's on-site analysis of rotating machinery results in a computerized projection of equipment health and possible failures that will facilitate scheduling repair.

FIELD REPAIR, ERECTION & INSTALLATION

ProcessBarron's field crews are experts in the installation of all types of fans, air systems and material handling equipment. We offer turn-key projects including equipment design, supply and installation.

FAN REPAIR

ProcessBarron has earned the reputation as "America's Emergency Fan Repair Company". Three day repair is available. ProcessBarron offers on-site fan removal, repair and installation which avoids excessive down time.

DESIGN • ENGINEER • FABRICATE • INSTALL • SERVICE • REPAIR • REBUILD

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DOUBLE DUMP VALVES



Rugged

Dependable

In-Place Maintenance

**24 hr
Emergency Service**

processbarron
total system solutions

THE RUGGED DESIGN OF PROCESS BARRON DOUBLE-DUMP VALVES INSURES DEPENDABLE, LONG LASTING PERFORMANCE

This Heavy-Duty Equipment Features an Easy Access Removable Panel for Quick In-Place Service and Maintenance.

ProcessBarron continues its commitment of world class manufacturing with the Double-Dump Airlock Valve.

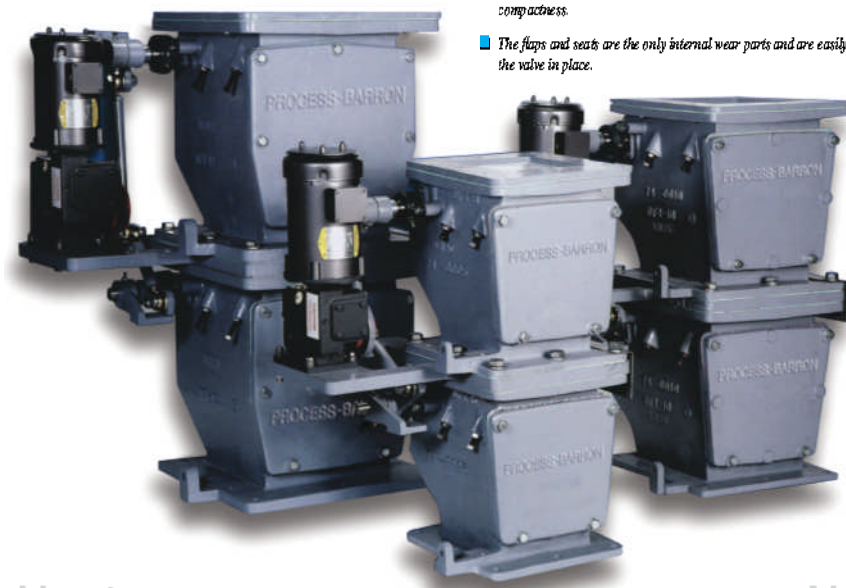
The valve is an excellent device for removing hot, abrasive materials from your process while preventing undesirable in-leakage to the system and maintaining system pressure. Typical applications are hoppers on drop-out boxes, dust collectors, baghouses, precipitators and other devices collecting flyash, sawdust, lime, shavings, cement, dinker, sinter, sand or other granular materials that are not sticky and flow freely by gravity.

This rugged, heavy-duty valve is designed to handle abrasive, free-flowing materials at high temperatures for an extended service life while maintaining an airlock and keeping the hopper or bin empty.

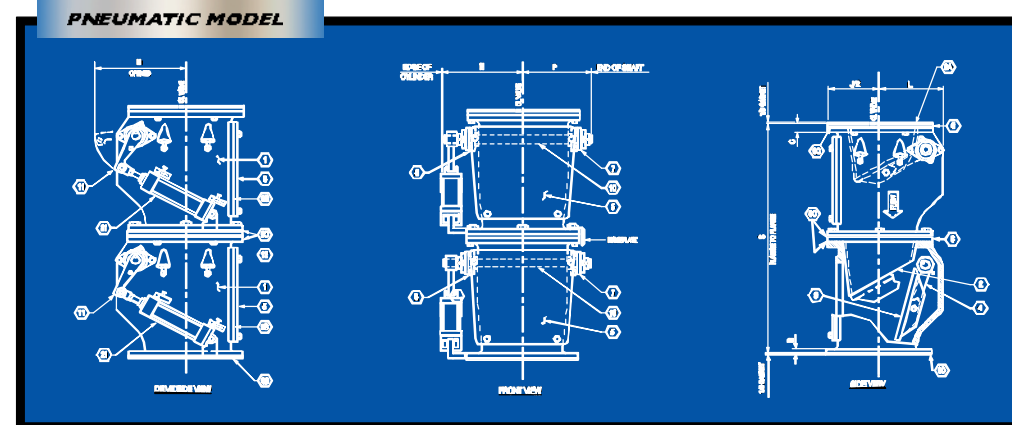
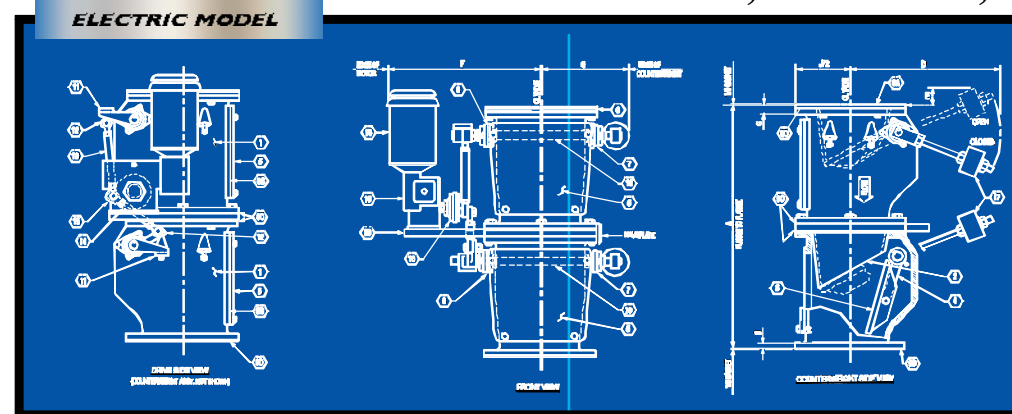
The Double-Dump Valve is available with electric drive or pneumatic cylinder actuators.

This unique design also features large, easily removable panels for quick, easy access to service internal flaps and seats. As a matter of fact, all maintenance required on the Double-Dump Valve can be performed with the unit in its operating location.

- Operating temperatures up to 650° F are standard. Special construction is available for higher temperatures.
- Flap and seat are machine ground to provide perfectly mated surfaces for metal-to-metal seal.
- Flange surfaces are machined and gasketed for a gas-tight seal.
- Close design and production tolerances on all parts insure interchangeability.
- The heavy-duty engineered drive system accounts for maximum reliability and compactness.
- The flaps and seats are the only internal wear parts and are easily replaced with the valve in place.



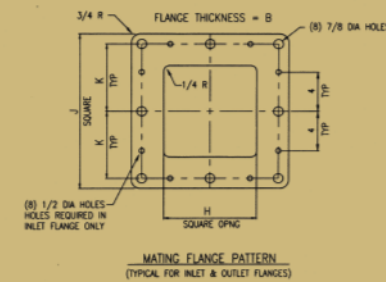
PROCESS BARRON VALVES ARE ENGINEERED FOR POSITIVE AIR-LOCK HANDLING OF HOT, ABRASIVE, FREE FLOWING MATERIALS.



PROCESS BARRON DOUBLE-DUMP VALVE FEATURES

- Rugged, heavy wall, ductile cast iron bodies.
- Ni-Hard flaps and seats for high abrasion resistance.
- Stainless steel shafts for high-temperature service and corrosion free sealing surfaces and bearing journals.
- Packing gland type shaft seals that are easily maintained.
- Shaft bearings mounted on stand-offs for air cooling and to provide access to packing glands.
- All bolted construction, no special tools or welding required.
- All parts are completely interchangeable.
- Designed for continuous around-the-clock operation, day-in and day-out, to keep material evacuated from your process while maintaining an airlock seal.
- Drive hardware is stainless steel for long life and easy maintenance.

MATING FLANGE



BILL OF MATERIAL

FIND NO.	DESCRIPTION
1	Housing Assembly
2	Seat
3	Flap Assembly
4	Flap Lever Assembly
5	Access Panel
6	Insert Plate
7	Bearing
8	Packing Gland Assembly
9A	Gasket (Upper)
9B	Gasket (Access Panel)
9C	Gasket (Internal)
9D	Gasket (Lower)
10	Shaft
11	Drive Lever Assembly
12	Floating Lever Assembly
13	Upper Linkage Assembly
14	Lower Linkage Assembly
15	Crank Plate Assembly
16	Slip Clutch Assembly
17	Counterweight Assembly
18	Electric Motor
19	Gear Reducer
20	Drive Mounting Plate
21	Cylinder Assembly

WEIGHTS (lbs.)

	8"	10"	12"
ELECTRIC	450	705	955
PNEUMATIC	350	515	735

VALVE SIZE	A (max.)	B	C	D	E	F	G	H	J	K	L	M	N	P	S (max.)	Max. Flow* (cu.ft./hour)
8	32 - 1/4	3/4	1 - 3/8	21 - 3/4	4	20 - 1/2	11 - 7/8	8	13 - 3/4	5 - 7/8	8 - 3/4	10 - 7/8	11 - 1/8	8 - 3/4	32	93
10	36 - 1/4	7/8	1 - 1/2	26	5	22	13 - 7/8	10	16 - 1/4	7 - 1/8	9 - 3/4	13 - 5/8	12 - 3/8	10 - 1/8	36	165
12	44 - 3/8	1	1 - 7/8	30 - 1/4	6 - 3/4	24 - 5/8	16 - 3/8	11 - 1/2	20 - 1/4	8 - 7/8	11 - 3/4	15 - 1/2	14 - 1/4	11 - 1/8	44	300

All dimensions shown are in inches

*Note: Capacities may be increased by adding a dutchman between valve sections.