

MODEL EV ROTARY VALVE

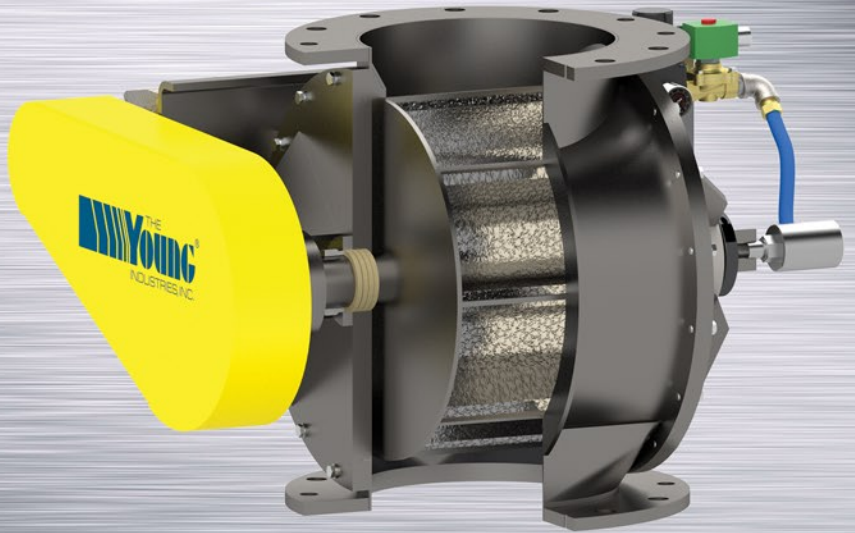
***For Handling Anode
& Cathode Powders***

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STANDARD FEATURES:

- ▶ TransFlow® lined rotor for material fluidization and release.
- ▶ Heavy duty construction with 15 PSIG internal and differential pressure rating.
- ▶ Constructed of carbon steel or 300 series stainless steel.
- ▶ Standard design/operating temperature up to 250°F.
- ▶ Round, square, or custom inlet and discharge flanges.
- ▶ Outboard-mounted precision ball bearings.
- ▶ Packing gland provides a tight rotor shaft seal with four rings of PTFE impregnated Kevlar.
- ▶ End plates are piloted to assure concentricity of the housing so that tight internal clearances between rotor and housing is provided.

**ADVANCED
TECHNOLOGY
PROVEN DESIGN**

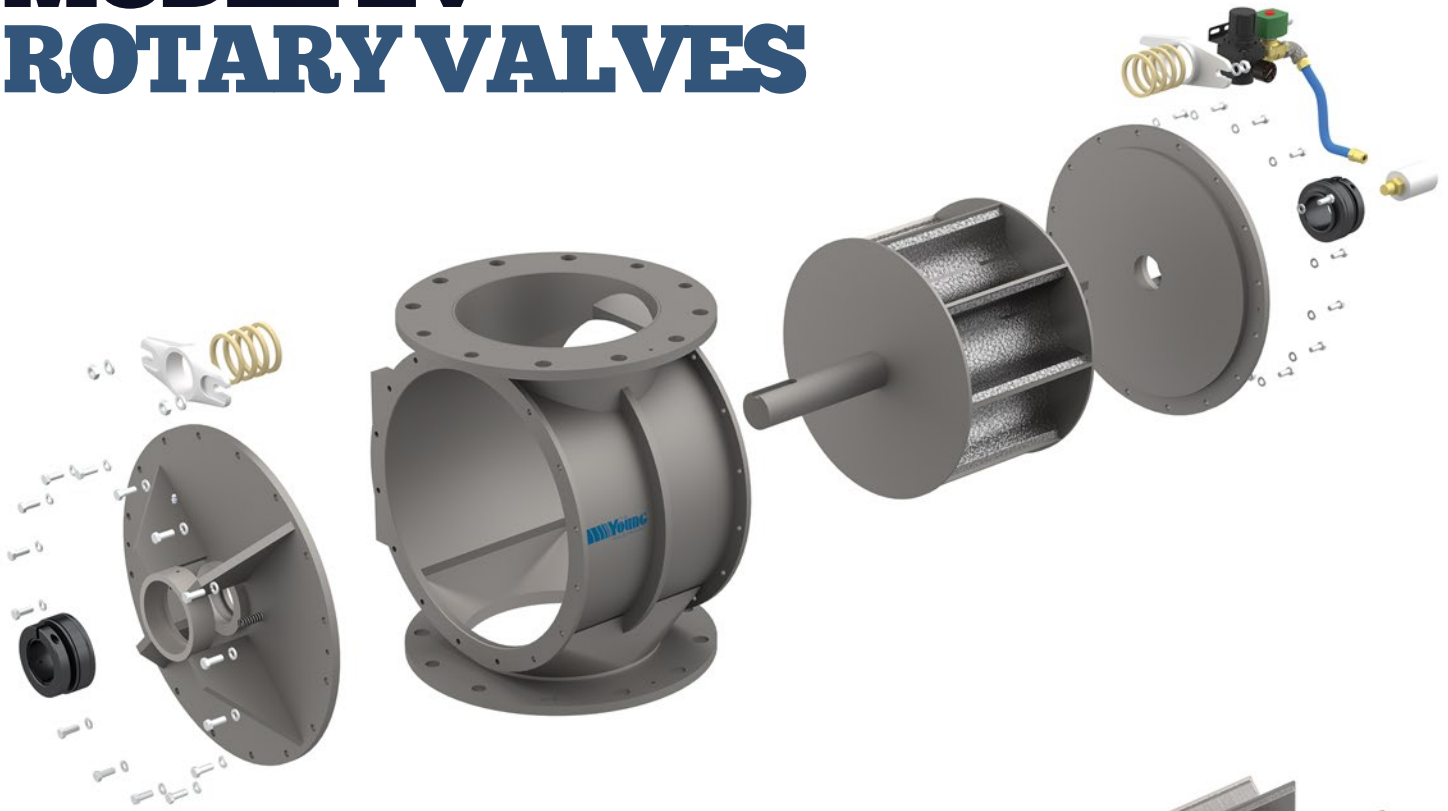


HANDLING COHESIVE BATTERY MATERIALS WITH EASE.

The Young Industries' Model EV Rotary Valve has proven to be an effective way to meter cohesive battery materials into powder processes. We understand the difficulty of handling anode and cathode materials. For this reason, we have integrated our long-standing rugged rotary valve design with our aeration technology, TransFlow®, to develop the Model EV Valve. The rugged valve design works well in harsh and demanding environments. The TransFlow® technology aids in fluidizing the material in the pocket of the rotor both conditioning the material and reducing its ability to stick in the pocket. This enables a more consistent reliable flow into downstream processes. This combination has created a valve that can tackle the problematic handling of cohesive materials found in the manufacturing of anode and cathode battery recipes. The Model EV Rotary Valve is designed to handle material such as carbon black, graphite, nickel-based powders, lithium-based powders with ease.

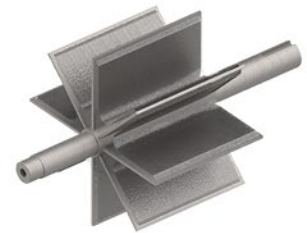
The Model EV Rotary Valve has large vertical inlet and discharge throats of the housing allow better flow of materials into the rotor pockets. The rotor is engineered with eight to twelve vanes to insure there is always two blades positioned between the inlet and outlet of the valve. This two-blade seal and precision machined housing ensures that there is minimum air or gas leakage across the valve. The TransFlow® lined rotor provides the aeration needed to keep the material moving.

MODEL EV ROTARY VALVES



OPTIONAL FEATURES:

- ▶ Air flow controls for TransFlow®.
- ▶ All stainless steel control components.
- ▶ Motion speed switch.
- ▶ VFD inverter.
- ▶ Explosion proof electrical components.
- ▶ Teflon lantern ring with purge connection in the packing gland.
- ▶ High internal pressure designs up to 50 PSIG.
- ▶ High temperature designs up to 500°F.
- ▶ Roller chain drive with parallel shaft TEFC driven gearmotor is standard with explosion proof motors of any specified manufacturer available.
- ▶ Special packing materials of graphite, food grade PTFE, or as needed by process.
- ▶ Direct venting with vent installed in the housing.
- ▶ End plate purges.
- ▶ Rotor tips and edges can be beveled.
- ▶ End plate o-rings.
- ▶ Shrouded or open rotors with standard or filled pockets.
- ▶ Exterior painting and coatings to meet customer specifications.



Open Pocket Rotor



Shrouded Rotor



Shrouded Rotor With Filled Pockets