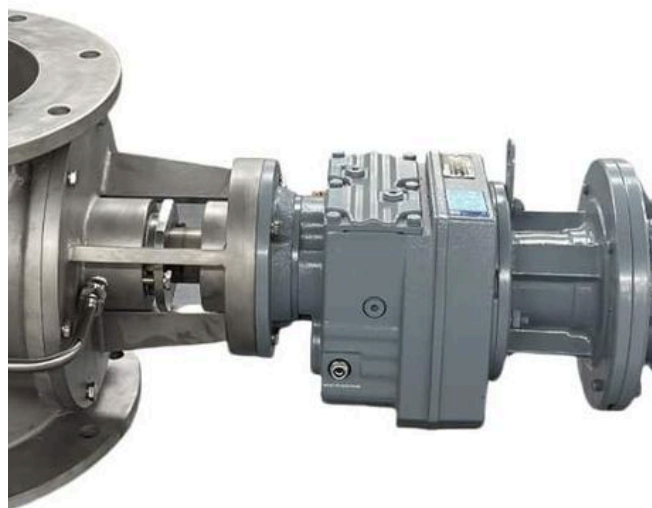




The CY-RV heavy duty rotary valve is a feeding and air-locking device spanning hygienic to extra-heavy-duty applications: the clearance between rotor blades and housing is precision-machined (optionally below 0.25 mm), maintaining good air tightness while discharging continuously. It is the core air-locking discharge component of vacuum / positive-pressure pneumatic conveying systems, and is also used for metered discharge at the base of silos, dust collectors and cyclone separators. Available in cast iron / stainless steel / Ni-hard cast iron, it withstands high temperatures (up to approx. 540 °C) and high differential pressures, and handles a wide range of materials from powders and granules to grain and flakes.

Construction & Configurations: Square or round flanged housings available; 6-blade or 8-blade rotors to optimize volume and air leakage; large external bearings protected from material ingress, pre-lubricated and permanently sealed; optional rotor coatings (hard chrome, nickel, Teflon, tungsten carbide) for abrasive and cohesive materials.

Key Features

- ◆ Precision rotor-to-housing clearance (<0.25 mm optional) for excellent air-locking performance
- ◆ Cast iron / 304 / 316L / Ni-hard cast iron, resistant to corrosion, abrasion, high temperature and high differential pressure
- ◆ 6-blade / 8-blade rotor options; square or round flanges customized to site requirements
- ◆ External pre-lubricated sealed bearings for low maintenance and long life
- ◆ Optional explosion-proof (ATEX), double-body, offset and air-purge special constructions
- ◆ Combines metering and feeding; variable-frequency metered feeding

Specifications

Model	Volume per Rev. (L/r)	Speed (r/min)	Motor Power
RV-150	4	24	0.75 kW
RV-200	8	24	1.1 kW
RV-250	16	32	1.5 kW
RV-300	25	32	1.5 kW
RV-350	40	38	2.2 kW
RV-400	60	38	2.2 kW

※ Construction: housing + rotor + end covers; direct or chain drive available.

Material falls into rotor pockets by gravity

→ Rotor rotates

→ Continuous discharge at the bottom

Air lock maintained

◆ Selection notes: please specify material characteristics, throughput, system pressure type (gravity / positive pressure / vacuum), inlet and outlet flange types and drive method (direct / chain). Housing coatings and rotor type should be selected according to material abrasiveness.