

ROTARY VALVE

OVERVIEW

- Rotary valve, also known as star valve, is a device for supplying and discharging material in a production process. The star valve is usually integrated below other equipment in the line such as: silo, hopper, storage tank... The material is fed into the valve through an inlet hopper, which is regulated through speed of the valve and the rotor valve, which is then supplied to other equipment at the rear of the system.
- Rotary valve is applied to regulate the system capacity based on controlling the rotational speed of the valve rotor. It could be controlled by different methods such as: electric motor, pneumatic control....to ensure the productivity of the system and meet the operating demands of the activity of the system responding to the needs of customers.

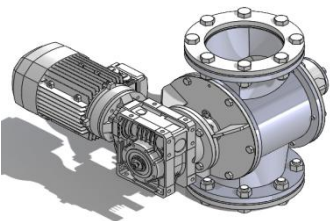


Figure 1: A rotary valve with motor and gearbox

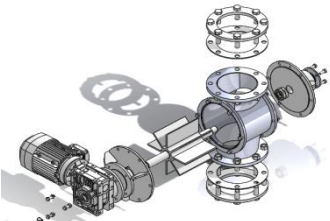
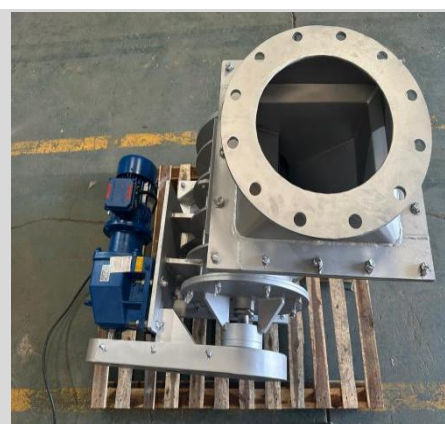


Figure 2 Basic exploded view of Rotary valve

* The basic structure of a Rotary valve must include the following parts:

- Housing: Fixed valve body, connected to input and output devices of Rotary valve
- Rotor Valve: Wing valve, rotating part to regulate the product.
- Drive part: Direct or indirect drive (chain transmission...), Rotary Valve speed control
- Other connection details

Some actual pictures of Rotary valve



BASIC SPECIFICATIONS

- Size: designed according to customer needs. VTStek can manufacture Rotary Valves with nominal sizes from 100 mm – 800 mm
- Connection type: square or round flange, quick release coupling of all kinds....
- Materials: We apply different materials depending on the nature, environment and conditions of use such as: carbon steel SS400, A316, A572, alloy steel, stainless steel 201, 304, 316, 420, 316L, 310...
- Control type: Direct or indirect control, speed regulation by inverter...
- There is a full range of devices to monitor location, speed, temperature, depending on the choice in design, and the needs of the system.



BASIC SPECIFICATIONS

Model	Volume (lit/round)	Motor power (kW)	Valve Speed (rpm)	Dimensions (mm)
RV-200	6	0.75	25	350x450x750
RV-250	12	1.1	25	400x500x850
RV-300	18	1.1	25	450x550x1100
RV-350	20	1.5	30	500x600x1150
RV-400	30	2.2	30	550x700x1300
RV-450	40	2.2	35	600x750x1400
RV-500	50	3	40	650x800x1500

Figure 3: Table of standard dimension of Rotary Valve of VTStek

SCOPE OF APPLICATION

*Rotary Valve is used in many different applications of the system such as:

APPLICATION

- General Industry Cement
- Minerals & Coal
- Food and Drugs
- Steel mills & foundries
- Agriculture, Dairy, Tobacco and Grains
- Biomass and waste to energy
- Chemical industry
- Milling industry
- Pet food industry
- Paper pulp
- Plastic production lines



PROJECT REFERENCES



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