



DATA SHEET



SQUARE FLANGE, DROP-THRU VALVE

The RVS Series Rotary Airlock Valve is ideal for the pneumatic conveying of dry, free flowing, non-cohesive bulk density products or powders. This square flange, drop-thru valve feeds material through the six rotating vanes where it drops out the bottom outlet flange via gravity. This outboard bearing airlock (valve) achieves high fill efficiencies with minimum air leakage, due to precise machining and tight rotor clearances. The RVS Series Rotary Airlock Valve is available in a 12" size.

APPLICATIONS & USE

Typical Bulk Materials Processed

- PowderActivatedSoda AshFly Ash
 - Carbon (PAC) Rice
- Plastic
 Pellets
 Magnesium
 Oxide
 Lime
 Cement
 Peanuts
 Others
- Typical Applications
- Water Treatment
- Food
- Chemical Processing
- Mining
- Grain Handling
- General Industrial
- Oil and Gas
- Glass and Ceramics
- Pulp and Paper

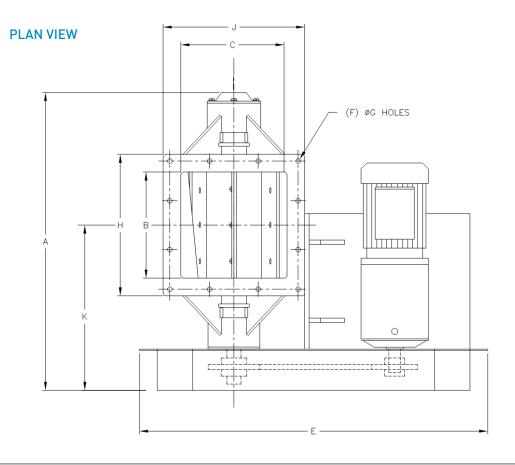
Applicability can vary by system make and model. For an evaluation, contact us: salesinquiries@carmeuse.com

FEATURES BENEFITS

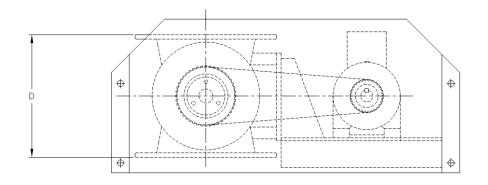
Square inlet and outlet flange	More readily matches a square duct arrangement without the need for transitions assuring system compatibility					
Fabricated six vane, adjustable/replaceable tip rotor	Maximizes pocket capacity causing less air leakage					
Cast iron construction	Offers rugged design providing maximum structural stability					
Precision-machined housing	Minimizes rotor-to-barrel clearances limiting leakage					
Outboard bearing design	Protects bearings from damaging contaminant extending maintenance cycles					
Packing gland type seals	Makes for easy maintenance saving on costs					
Tapered throat valve inlet design	Ensures material flow to rotor pockets maximizing performance					
Handles differential pressures up to 15 psi	Well suited for pneumatic conveying operations increasing productivity					
Chain and sprocket drive	Offers smaller footprint and greater speed selection providing flexibility to the applications being used					

RVS SERIES ROTARY AIRLOCK VALVE MODEL AVAILABILITY

MODEL	CAPACITY [ft³/rev [m³/rev]) @ 100% efficiency	A (in. [mm])	B (in. [mm])	C (in. [mm])	D (in. [mm])	E (in. [mm])	F -	G (in. [mm])	H (in. [mm])	J (in. [mm])	K (in. [mm])	Weight (lbs. [kg])	
RVS-02	0.2 [0.0057]	27 [686]	9 [229]	9 [229]	10 ³/ ₈ [264]	29 ¹ / ₂ [750]	12	⁷ / ₁₆ [12]	12 [305]	12 [305]	15 ¹ / ₂ [394]	240 [109]	



ELEVATION VIEW



NOTE:

Information / dimensions shown are for reference only and is subject to change based on final design and applications.

SPECIFICATIONS

PROCESS REQUIREMENT

- Differential Pressure across valve:
 Max. 15 psig [103 kPag]
- (Optional) Air Supply for Purge Package: Max. flow of 10 CFM [17 m³/h] @ pressure of 2 psig [14 kPag] higher than operating pressure

ADD-ON FEATURES

- Gearbox with NEMA / IEC Motor
- Washdown / Chemical / Explosion-Proof
 Duty Motor
- Rotor:
 - High Temperature Application
 - Hardened Carbon Steel
 - Closed End
 - Filled Pocket
 - Adjustable / Replaceable Tips
- Seal Purge Package
- End Purge Package
- Shear Protector
- Motion Detector
- Convey Attachment

MATERIAL OF CONSTRUCTION

- Standard:
 - Housing: G4000 Cast Iron
 - Rotor: C1018 / C1020 Carbon Steel
 - Shear Protector: A36 Carbon Steel
 - Convey Attachment: A36 Carbon Steel

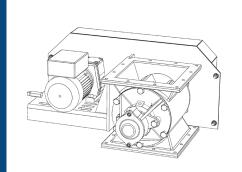
• Options:

- Housing: Hard Chromed Liner / CF8
 Stainless Steel
- Rotor: Hardened Carbon Steel / 304
 Stainless Steel / 316 Stainless Steel
- Shear Protector: 304 Stainless Steel / 316 Stainless Steel
- Convey Attachment: 304 Stainless Steel / 316 Stainless Steel

AVAILABILITY

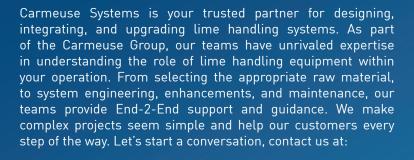
- RVS-02

RVS02 - ROTARY AIRLOCK VALVE





YOUR **LIME HANDLING** EXPERTS™



salesinquiries@carmeuse.com +1-905-875-5587 systems.carmeuse.com

CANADIAN HEAD OFFICE: 8485 PARKHILL DRIVE MILTON, ON L9T 5E9, CANADA US HEAD OFFICE: 3600 NEVILLE ROAD PITTSBURGH, PA 15225

