



SCORPIO ROTARY AIRLOCKS ***Keep Your Bulk under Control***

Providing Cutting Edge Technology And Application Engineering Expertise In Bulk Solids Handling systems

SCORPIO ROTARY AIRLOCKS are an effective means of controlled feeding of dry bulk materials to pneumatic conveying pipelines or for gravity feed of bulk materials

Scorpio Rotary Airlocks are primarily used to:

- A. Discharge free-flowing material from a bin or hopper.
- B. Empty dust filled hoppers of collected material.
- C. Feed free-flowing material to a pneumatic conveying system operating as a blowing or suction system.

STANDARD FEATURES:

- 1. Eight blade rotor for maximum sealing
- 2. Heavy duty cast housing and end plates provide rigidity (Cast Iron or 304 Stainless Steel)
- 3. Heavy duty outboard permanently sealed bearings.
- 4. Standard rotor has round bottom pockets for more efficient material discharge.
- 5. All models drilled for air purge of seals.
- 6. 0.1mm to 0.3mm clearances for minimum air leakage.
- 7. Bearing retainer and packing gland are part of the end plate casting. Seals can be replaced



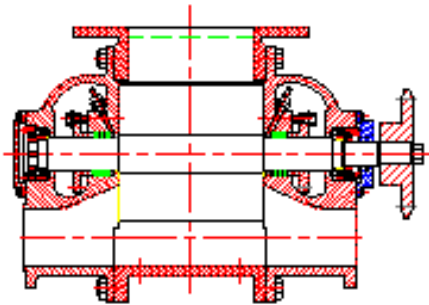
- 8. Optional integral drive.

Essentially consisting of a concentric multi-vented rotor in a precision machined housing with end cover plates, our airlocks are manufactured in a variety of constructions and sizes depending on their application.

DROP THROUGH TYPE: Available in both cast and fabricated constructions. These are essentially used for free flowing materials. Depending on the flowability, the vane pockets can be full depth, shallow depth or scalloped. Open or shrouded rotors are also available. Further, Scorpio has developed a sanitary Rotary Airlock with a new mechanism whereby the valve can be cleaned more easily and more quickly. In this **quick removal type** model, the rotor and end covers can be completely removed for cleaning and slide back easily into position with perfect alignment.

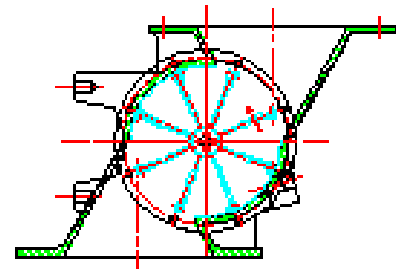


Quick Release Rotor
(Sanitary construction)



SIDE ENTRY TYPE: Also known as tangential entry airlocks, these are specifically made for the Petrochemicals industry where shearing of pellets is unacceptable. The design is such that the pockets are only half full as the vane tips cross the inlet opening. These models are also available with an adjustable slide gate at the inlet point to regulate feed rate into the airlock.

BLOW THROUGH TYPE: The Blow Through type Rotary Airlock is fitted directly onto the conveying pipeline and the vane pockets pass across the cross section of the conveying pipe as the airlock operates. This is designed for relatively sticky materials that do not dislodge easily by gravity when the vane pockets are in their downward moment. The conveying air blows all the materials out from the pockets as they present themselves to the air stream.



To best select the type and size of Rotary Airlock for your specific application, please return the enclosed questionnaire duly filled-in.

SCORPIO offers state-of-the-art equipment and complete turnkey systems in:

- In-plant Bulk Handling
- Dense & Dilute Phase Pneumatic Conveying
- Open Truck Unloaders
- Container Tilting Units for filling & discharge
- Bag Slitting Machines / Bag Handling Systems
- Bulk Transportation
- Central Vacuum Cleaning Systems
- Weighing & Batching
- Silos and Silo Discharge
- FIBC (Big Bag) Filling and Discharge Systems
- Port Bulk Handling
- Ship Loading / Unloading Systems
- Weighing and Batching

We also offer consultancy in the design and engineering of Bulk Solids Handling systems

For further information, please contact

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