



# Rotary Airlock Feeder Valve Application Data Sheet

(Rev 03062019)

## Customer Information:

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Email: \_\_\_\_\_

Approx. Need Date: \_\_\_\_\_  
Airlock Genius Sales Person: \_\_\_\_\_  
Phone: \_\_\_\_\_

To help us provide you perfect rotary airlock valve to meet your application needs, please complete this form and review with Airlock Genius sales team

## Existing Airlock Valve Information:

New valve replacing an existing valve?  Yes  No If Yes, Make: \_\_\_\_\_  
Size: \_\_\_\_\_  
Model: \_\_\_\_\_  
Mfg. Year: \_\_\_\_\_

## Function of Valve:

- Airlock Only: Minimizes system air loss and acts as an air seal only while allowing the transfer of material
- Feeder Only: Regulates the continuous flow of material between vessels sharing the same pressure
- Airlock & Feeder: Minimizes system air loss while regulating the flow of material between vessels with pressure differential

### Condition Above Valve:

- Hopper  Screw
- Cyclone  Dryer
- Filter/Receiver  Shredder/Mill
- Dust Collector  Mixer
- Silo  Baghouse
- Additional Info: \_\_\_\_\_

Pressure Above Valve:  Positive  Negative  Atmospheric

Pressure In PSI \_\_\_\_\_ Humidity:  High  
In "Hg \_\_\_\_\_  Average  
In "H<sub>2</sub>O \_\_\_\_\_  Low

Temperature above the valve in °F: \_\_\_\_\_

Will the valve operate under a head of material:  Yes  No

### Condition Below Valve:

- Hopper  Screw
- Belt  Airslide
- Tank  Pressure Line
- Chute  Vacuum Line
- Mixer
- Additional Info: \_\_\_\_\_

Pressure Below Valve:  Positive  Negative  Atmospheric

Pressure In PSI \_\_\_\_\_ Humidity:  High  
In "Hg \_\_\_\_\_  Average  
In "H<sub>2</sub>O \_\_\_\_\_  Low

Temperature below the valve in °F: \_\_\_\_\_

Will the valve operate under a head of material:  Yes  No

## Profile of Material to be Used:

Product: \_\_\_\_\_  
Chemical Formula: \_\_\_\_\_  
Bulk Density (Aerated): \_\_\_\_\_ Lbs/Cu. Ft.  
Bulk Density (Settled): \_\_\_\_\_ Lbs/Cu. Ft.  
Angle of Repose: \_\_\_\_\_  
Moisture content of Material: \_\_\_\_\_  
Temperature of Material: \_\_\_\_\_  
Particle Size: Max. \_\_\_\_\_  
Min. \_\_\_\_\_  
Avg. \_\_\_\_\_

## Unique Characteristics of Particle/Material:

- Pellet  Curls  Sticky-Smears
- Powder  Fibrous  Aerates-Dusty
- Chips  Hygroscopic  Heat Sensitive
- Lumps  Explosive  Corrosive-Reactive
- Granular  Flake  Tends to Pack
- Toxic-Emits Fumes  Pharmaceutical
- Other (explain): \_\_\_\_\_

Abrasiveness:  Mild  Extreme  Moderate  
Allowable Material Degradation is: \_\_\_\_\_ %

## Mesh Size:

\_\_\_\_\_% Thru 1/2" \_\_\_\_\_% Thru 1/8"  
\_\_\_\_\_% Thru 1/4" \_\_\_\_\_% Thru 1/16" \_\_\_\_\_% Thru 25 \_\_\_\_\_% Thru 100  
\_\_\_\_\_% Thru 50 \_\_\_\_\_% Thru 200

## Operating Condition:

Duty Cycle: \_\_\_\_\_ Hours/Day \_\_\_\_\_ Days/Year  
Operation:  Continuous  Intermittent

Location:  Outdoor  Indoor

## Flow Rate:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ Tons  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ Lbs  
\_\_\_\_\_  
\_\_\_\_\_ Cu. Ft.

## Variable Feed Rate (If required):

Maximum \_\_\_\_\_ %  
Minimum \_\_\_\_\_ %

## Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_