



Airlock Sizing Information

Sizing Questionnaire

What is the product? _____

1. Bulk density (lbs. per cubic foot), aerated or settled? _____

2. Pounds per hour? _____

3. Particle size/shape? _____

4. Special characteristics:

- Hygroscopic _____
- Sticky _____
- Abrasive _____
- Corrosive _____

5. Temperature range? _____

6. What is above the airlock? _____

7. What is below the airlock? _____

8. New application or replacement? _____

- If replacement, whose airlock? _____
- Flange dimensions: _____
- Round or square? _____
- Height from flange to flange: _____

9. Airlock with motor and drive package or bare? _____

Airlock Size and RPM Calculation

To determine the feed rate for a rotary airlock use the following method:

Design rate _____ #/hr.

Airlock displacement _____ ft.³/rev.

Material bulk density* _____ lbs./ft.³

Expected efficiency of A/L* _____ %

_____ lbs./hr. divided by 60 min. = _____ # min. divided by _____ lbs./ft.³ = _____ ft.³/min.

_____ ft.³/min. divided by _____ ft.³/rev. = _____ RPM @ 100% fill.

_____ RPM @ 100% divided by _____ % = _____ design RPM.

* From MAC test report.