### FUNCTION OF VALVE

- **AIRLOCK ONLY:** Minimizes system air loss while allowing the transfer of material between vessels with differing pressure.

- **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 differing pressure.

### CONDITIONS ABOVE VALVE

**Valve is installed beneath:**
- [ ] Hopper
- [ ] Silo
- [ ] Baghouse
- [ ] Cyclone
- [ ] Filter receiver
- [ ] Screw
- [ ] Shredder
- [ ] Dryer
- [ ] Mixer
- [ ] Other: _______________________

**Pressure above valve is:**
- [ ] Positive
- [ ] Negative
- [ ] Atmospheric
  - _____ PSI
  - _____ "Hg
  - _____ "H2O

**Temperature above valve is:** _____ °F

**Is valve choke-fed?**
- [ ] Yes
- [ ] No

**Humidity is:**
- [ ] High
- [ ] Average
- [ ] Low

### CONDITIONS BELOW VALVE

**Valve is installed above:**
- [ ] Hopper
- [ ] Screw
- [ ] Airslide
- [ ] Belt
- [ ] Chute
- [ ] Mixer
- [ ] Tank
- [ ] Vacuum line
- [ ] Pressure line
- [ ] Other: _______________________

**Pressure beneath valve is:**
- [ ] Positive
- [ ] Negative
- [ ] Atmospheric
  - _____ PSI
  - _____ "Hg
  - _____ "H2O

**Temperature beneath valve is:** _____ °F

**Diameter of conveying line is:** ___________

**Humidity is:**
- [ ] High
- [ ] Average
- [ ] Low

### MATERIAL CHARACTERISTICS

- **Common Name:** _______________________
- **Chemical Formula:** _______________________
- **Bulk Density, Aerated:** _____ Lbs./Cu.Ft.
- **Bulk Density, Settled:** _____ Lbs./Cu.Ft.
- **Maximum Particle Size:** _______________________
- **Particle Type/Shape is:**
  - [ ] Pellet
  - [ ] Powder
  - [ ] Chip
  - [ ] Lump
  - [ ] Granular
  - [ ] Flake
  - [ ] Curl
  - [ ] Fibrous
- **Mesh Size-Angle of Repose is:** _____ °
  - _____ % Thru 1/2"
  - _____ % Thru 1/4"
  - _____ % Thru 1/8"
  - _____ % Thru 1/16"
  - _____ % Thru 25"
  - _____ % Thru 50"
  - _____ % Thru 75"
  - _____ % Thru 100"
  - _____ % Thru 200"
  - _____ % Thru 400"

**Flowability:**
- [ ] Extreme
- [ ] Moderate
- [ ] Sluggish

**Moisture content of material is:** _____ %

**Temperature of material is:** _______________________

**Special Characteristics:**
- [ ] Hygroscopic
- [ ] Corrosive-Reactive
- [ ] Explosive
- [ ] Toxic-Emits Fumes
- [ ] Sticky-Smears
- [ ] Heat Sensitive
- [ ] Aerates-Dusty
- [ ] Tends to Pack
- [ ] Other: _______________________

**Abrasiveness:**
- [ ] Extreme
- [ ] Moderate
- [ ] Mild

**Allowable material degradation is:** _____ %

**Comments:** _______________________

---

### OPERATING CONDITIONS

**Constant rate of flow per hour:**
- _____ Tons
- _____ Lbs.
- _____ Cu.Ft.

**VARIABLE FEED RATE (IF REQUIRED)**

**Max:** _____
**Avg:** _____
**Min:** _____

**Duty Cycle:**
- [ ] Continuous
- [ ] Intermittent

**Comments:** _______________________

---

**Company**

**Date**

**Contact**

**Salesperson**

**Phone No.**

**Fax No.**

**Job Reference**

**GLAP #**
SIZE AND SPEED SELECTION GUIDE

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1) \( \) Lbs./Hour = \( \) Lbs./Minute
2) \( \) Lbs./Minute = \( \) CFM
3) \( \) CFM = \( \) RPM
4) \( \) RPM = \( \) RPM

*FILL FACTOR

**RECOMMENDATION:**

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

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