

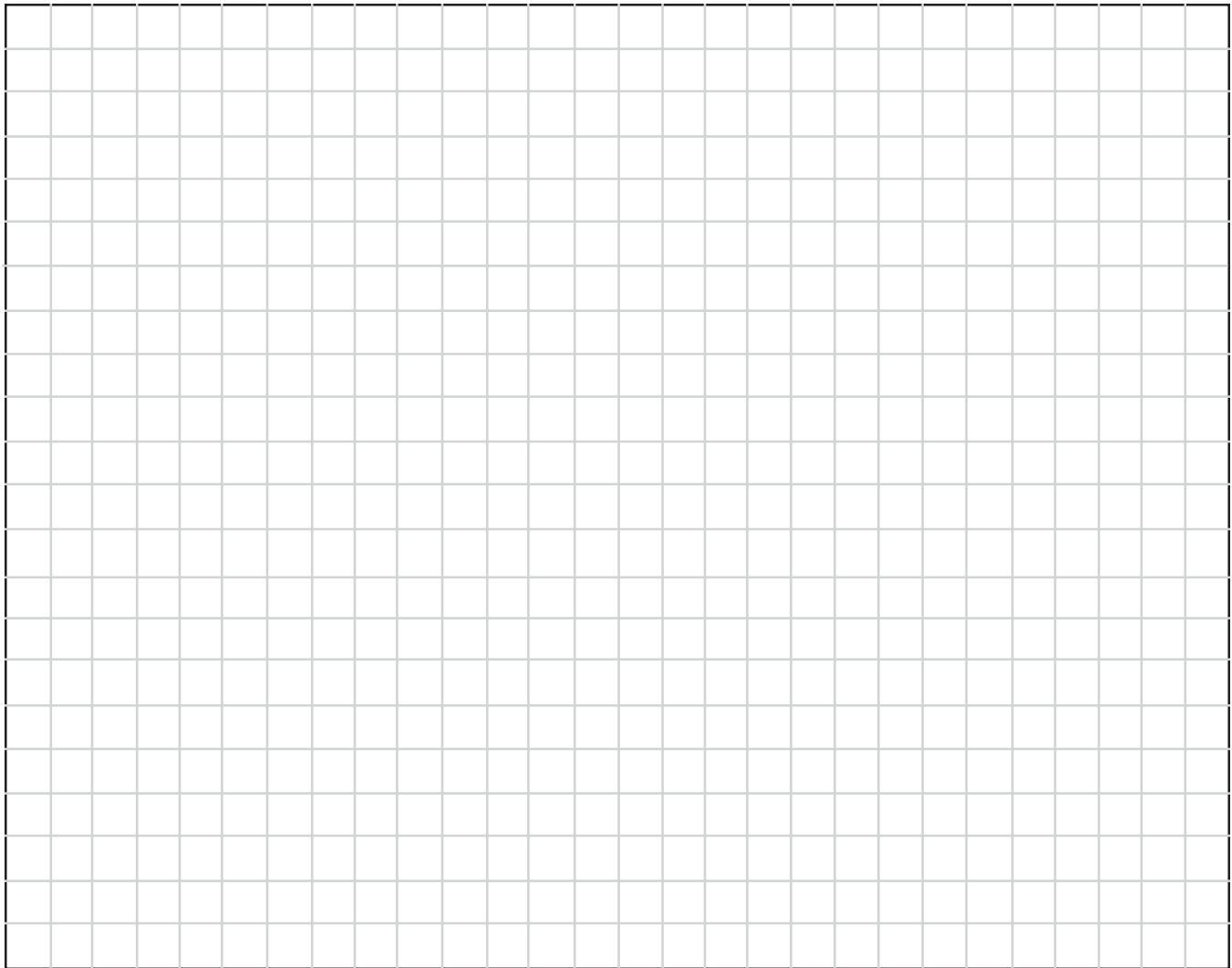
# ROTARY AIRLOCK FEEDER VALVE APPLICATION DATA SHEET



Company _____	Date _____
Contact _____	Salesperson _____
Phone No. _____	Fax No. _____
Job Reference _____	GLAP # _____

293-A-007

FUNCTION OF VALVE	MATERIAL CHARACTERISTICS
<input type="checkbox"/> <b>AIRLOCK ONLY:</b> MINIMIZES SYSTEM AIR LOSS WHILE ALLOWING THE TRANSFER OF MATERIAL BETWEEN VESSELS WITH DIFFERING PRESSURE <input type="checkbox"/> <b>FEEDER ONLY:</b> REGULATES THE CONTINUOUS FLOW OF MATERIAL BETWEEN VESSELS SHARING THE SAME PRESSURE <input type="checkbox"/> <b>AIRLOCK-FEEDER:</b> MINIMIZES SYSTEM AIR LOSS WHILE REGULATING THE FLOW OF MATERIAL BETWEEN VESSELS WITH DIFFERING PRESSURE	COMMON NAME: _____ CHEMICAL FORMULA: _____ BULK DENSITY, AERATED: _____ Lbs./Cu.Ft. BULK DENSITY, SETTLED: _____ Lbs./Cu.Ft. MAXIMUM PARTICLE SIZE: _____ PARTICLE TYPE/SHAPE IS: <input type="checkbox"/> PELLET <input type="checkbox"/> POWDER <input type="checkbox"/> CHIP <input type="checkbox"/> LUMP <input type="checkbox"/> GRANULAR <input type="checkbox"/> FLAKE <input type="checkbox"/> CURL <input type="checkbox"/> FIBROUS MESH SIZE-ANGLE OF REPOSE IS: _____° _____%THRU 1/2"    _____%THRU 1/4"    _____%THRU 1/8" _____%THRU 1/16"    _____%THRU 25    _____%THRU 50 _____%THRU 100    _____%THRU 200    _____%THRU 400 FLOWABILITY: <input type="checkbox"/> EXTREME <input type="checkbox"/> MODERATE <input type="checkbox"/> SLUGGISH MOISTURE CONTENT OF MATERIAL IS: _____% TEMPERATURE OF MATERIAL IS: _____°F SPECIAL CHARACTERISTICS: <input type="checkbox"/> HYGROSCOPIC <input type="checkbox"/> CORROSIVE-REACTIVE <input type="checkbox"/> EXPLOSIVE <input type="checkbox"/> TOXIC-EMITS FUMES <input type="checkbox"/> STICKY-SMEARS <input type="checkbox"/> HEAT SENSITIVE <input type="checkbox"/> AERATES-DUSTY <input type="checkbox"/> TENDS TO PACK <input type="checkbox"/> OTHER: _____ ABRASIVENESS: <input type="checkbox"/> EXTREME <input type="checkbox"/> MODERATE <input type="checkbox"/> MILD ALLOWABLE MATERIAL DEGRADATION IS: _____% COMMENTS: _____ _____ _____
CONDITIONS ABOVE VALVE	OPERATING CONDITIONS
VALVE IS INSTALLED BENEATH: <input type="checkbox"/> HOPPER <input type="checkbox"/> SILO <input type="checkbox"/> BAGHOUSE <input type="checkbox"/> CYCLONE <input type="checkbox"/> FILTER RECEIVER <input type="checkbox"/> SCREW <input type="checkbox"/> SHREDDER <input type="checkbox"/> DRYER <input type="checkbox"/> MIXER <input type="checkbox"/> OTHER: _____ PRESSURE ABOVE VALVE IS: <input type="checkbox"/> POSITIVE <input type="checkbox"/> NEGATIVE <input type="checkbox"/> ATMOSPHERIC _____ PSI    _____"Hg    _____"H <sub>2</sub> O TEMPERATURE ABOVE VALVE IS: _____°F IS VALVE CHOKE-FED? <input type="checkbox"/> YES <input type="checkbox"/> NO HUMIDITY IS: <input type="checkbox"/> HIGH <input type="checkbox"/> AVERAGE <input type="checkbox"/> LOW	CONSTANT RATE OF FLOW PER HOUR: _____ Tons    _____ Lbs.    _____ Cu.Ft. VARIABLE FEED RATE (IF REQUIRED) MAX: _____    AVG: _____    MIN: _____ DUTY CYCLE: <input type="checkbox"/> CONTINUOUS <input type="checkbox"/> INTERMITTENT COMMENTS: _____ _____ _____
CONDITIONS BELOW VALVE	
VALVE IS INSTALLED ABOVE: <input type="checkbox"/> HOPPER <input type="checkbox"/> SCREW <input type="checkbox"/> AIRSLIDE <input type="checkbox"/> BELT <input type="checkbox"/> CHUTE <input type="checkbox"/> MIXER <input type="checkbox"/> TANK <input type="checkbox"/> VACUUM LINE <input type="checkbox"/> PRES. LINE <input type="checkbox"/> OTHER: _____ PRESSURE BENEATH VALVE IS: <input type="checkbox"/> POSITIVE <input type="checkbox"/> NEGATIVE <input type="checkbox"/> ATMOSPHERIC _____ PSI    _____"Hg    _____"H <sub>2</sub> O TEMPERATURE BENEATH VALVE IS: _____°F DIAMETER OF CONVEYING LINE IS: _____ HUMIDITY IS: <input type="checkbox"/> HIGH <input type="checkbox"/> AVERAGE <input type="checkbox"/> LOW	



### SIZE AND SPEED SELECTION GUIDE

CAPACITIES (CFR)		
SIZE	6V	8V
4X4	.02	—
6X6	.07	.065
8X8	.18	.17
9X9	.29	.27
10X10	.36	.34
12X12	.64	.61
12X21	1.08	1.03
14X14	1.12	1.05
16X16	1.62	1.55
18X18	2.29	2.20
22X22	4.34	4.20
26X26	7.30	7.00
30X30	11.30	11.12
36X36	21.00	20.0

- 1)  $\left( \frac{\quad}{60} \right)$  Lbs./Hour =  $( \quad )$  Lbs./Minute
- 2)  $\left( \frac{\quad}{\quad} \right)$  Lbs./Minute =  $( \quad )$  CFM  
 $\left( \frac{\quad}{\quad} \right)$  Lbs./Cu. Ft.
- 3)  $\left( \frac{\quad}{\quad} \right)$  CFM =  $( \quad )$  RPM<sub>1</sub>  
 $\left( \frac{\quad}{\quad} \right)$  CFR
- 4)  $\left( \frac{\quad}{\quad} \right)$  RPM<sub>1</sub> =  $( \quad )$  RPM<sub>2</sub>  
 $\left( \frac{\quad}{\quad} \right)$  \*FF

\*FILL FACTOR

RECOMMENDATION: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### Wm. W. Meyer & Sons, Inc.

1700 Franklin Blvd. • Libertyville, IL 60048 • Phone: 800-963-4458 • 847-918-0111 • Fax: 847-918-8183  
 e-mail: sales@wmwmeyer.com • web address: <http://www.wmwmeyer.com>