VAC-U-MAX

37 Rutgers St., Belleville, NJ 07109 (973) 759-4600 Fax: (973) 759-6449

PNEUMATIC CONVEYING APPLICATION FORM

COMPANY _____ ATTN. _____

ADDRESS _____ PHONE _____

EMAIL: _____ FAX _____

VAC-U-MAX REPRESENTATIVE _____

BRIEFLY DESCRIBE WHAT YOU WANT TO ACCOMPLISH:

_____

_____

_____

_____

_____

_____

PLEASE ANSWER AS MANY OF THE FOLLOWING QUESTIONS AS POSSIBLE.

1. WHAT IS THE PRODUCT? Common Name _____ Trade Name _____
2. BULK DENSITY OF PRODUCT, #/Ft.^{3} or g/cc _____
3. WHAT ARE THE MAJOR CHARACTERISTICS OF THE MATERIAL? (Check all that apply)

   3a. Pellet Granule Powder Flake Fibrous Object (Describe Object)
   L W H WT What is the object? _____

   3b. WHAT IS THE PARTICLE SIZE RANGE OF PRODUCT?
   Microns _____ (or) Mesh Size _____ (or) Inches _____ (or) Specify _____

   3c . Dusty Non Dusty Abrasive Hygroscopic Fragile Other_____

   3d . Cohesive Adhesive Acidic Caustic Radioactive

   3e. Corrosive (To what materials?)_____

   3f . Toxic (Explain) _____

   3g. Explosive (Explain)_____ kst value: _____
4. WHAT ARE THE FLOW PROPERTIES OF THE MATERIAL? Free Flowing
   Sluggish (will flow with vibration) Not Free Flowing Fluidizes Does not fluidize
   Fluidizes and Floods Compresses (Packs)- Angle of Repose_____
5. ARE YOU CONCERNED ABOUT? Segregation _____ Breakage _____
6. THE SYSTEM WILL OPERATE _____ HOURS PER DAY?

   _____ DAYS PER WEEK? _____ WEEKS PER YEAR?
7. WHAT ARE YOUR CONVEYING DISTANCES? Vertical _____ Horizontal _____

8. HOW MANY BENDS ARE REQUIRED? _____

(NOTE: Convey lines should be routed to minimize bends. See Item 28)

9. FROM HOW MANY PICKUP POINTS WILL MATERIAL BE CONVEYED?_____

10. IS OUR SYSTEM BEING FED BY A CONTINUOUS PROCESS? YES____ NO____.

At what rate _____#/HR.

What is the process? (Describe) _____.

If "NO", what is feeding our system? SEE #11.

11. MATERIAL TO BE CONVEYED FROM:

Fiber, plastic or metal drums - Size _____ Weight _____lbs.

Boxes Size _____ Weight _____lbs.

Bulk bags or Flexible IBC'S - Size _____ Weight _____lbs.

Paper or plastic bags - Size _____ Weight _____lbs.

Large box (gaylord) - Size _____ Weight _____lbs.

NOTE: Add ("PL") after weight if any containers have loose plastic liners.

Storage hopper or silo - Size _____ Weight _____lbs.

Describe type and size of outlet (i.e: rotary valve, bin activator, screw feeder, etc.) _____

_____

Belt or Screw Feeder - Type _____ Size _____ Flow Rate _____

Other container or process (DESCRIBE) _____

_____

12. DO YOU WANT AUTOMATIC FEED INTO SYSTEM OR HAVE AN OPERATOR AVAILABLE TO HANDLE A PICKUP WAND? _____

13. WHAT IS THE PROCESS WE ARE FEEDING? (Describe) _____

---

14. WHAT IS THE REQUIRED FEED RATE? _____#/MINUTE_____#/HOUR

15. DOES THE PROCESS WE ARE FEEDING REQUIRE CONTINUOUS FEED? Yes No

16. IF APPLICATION IS TRANSFER OF A BATCH : How large is the batch? _____# or_____ kg.

(16a) How often does a batch need to be transferred? _____ Per Hour, _____ Per Day.

(16b) Within what time frame is the batch to be transferred? _____ minutes.

17. IF TRANSFER SYSTEM IS FEEDING A CONTINUOUS PROCESS ON DEMAND (Example: Refilling Screw Feeder Surge, Filling Machine Hopper, Tablet Press, Etc.), WHAT IS THE MAXIMUM USE RATE OF THE PROCESS? _____ #/HR or _____ kg/HR.

18. IF MATERIAL WEIGHING IS DESIRABLE IN THIS PROCESS, PLEASE REFER TO SUPPLEMENT 1 ATTACHED.

19. HOW MANY DISCHARGE POINTS WILL MATERIAL BE DELIVERED TO? _____

What equipment is to be fed? (Indicate manufacturer and type)

Mixer _____ Blender _____ Reactor _____

Filling Machine _____ Silo _____ Tank _____

Mill _____ Screen _____ Dryer _____

Tablet Press _____ Volumetric Feeder _____ Loss-In-Wt. Feeder _____

Other _____ Other _____

20. WHAT IS THE SIZE OF THE OPENING ON THE EQUIPMENT TO BE FED? _____

21. HOW MUCH HEADROOM DO YOU HAVE OVER EQUIPMENT TO BE FED? _____

22. WILL THE EQUIPMENT TO BE FED WITHSTAND 20" Hg VACUUM? _____ Or can it be made to hold that vacuum so it can be used as a primary vacuum receiver? _____

23. WILL OUR EQUIPMENT BE SUBJECTED TO FUMES, HEAT OR VAPOR EMITTED FROM THE EQUIPMENT BEING FED? YES____ NO____ (IF 'YES') DESCRIBE:

_____

_____

_____

(a) Only during loading operation _____ OR (b) Continuously _____

24. OUR EQUIPMENT IS TO BE LOCATED: INDOORS OUTDOORS

If outdoors, is it under roof? _____

25. GEOGRAPHICALLY, WHERE IS THE PLANT SITE? _____

Height above mean sea level? _____ FEET METERS

26. DO YOU REQUIRE A SPECIFIC CONSTRUCTION MATERIAL FOR SYSTEM COMPONENTS IN CONTACT WITH PRODUCT? Please explain: Carbon Steel 304 SS 316 SS

Other _____.

27. WHAT POWER IS AVAILABLE IN PLANT?

1. SINGLE PHASE _____ VOLTS _____ HZ

2. THREE PHASE _____ VOLTS _____ HZ

3. OTHER (_____) _____ VOLTS _____ HZ

4.HOW MUCH PLANT COMPRESSED AIR WILL BE AVAILABLE? _____ HP COMPRESSOR.

Note: (a) 5-10 SCFM @ 60 PSIG minimum required for controls of each system using vacuum pump.
(b) 35-40 SCFM @ 60 PSIG minimum required per venturi for power and controls of system using VAC-U-MAX venturi power unit.

Indicate number of SCFM available: _____.

28. WHAT IS THE ELECTRICAL CLASSIFICATION OF THE AREA WHERE OUR EQUIPMENT WILL BE LOCATED? CLASS DIVISION GROUP

    OR: UNCLASSIFIED

29. WHAT TYPE OF ENCLOSURE IS REQUIRED FOR CONTROL PANEL & JUNCTION BOXES?

    General purpose dust-tight (NEMA12)

    Water-tight (NEMA4); Carbon steel painted white enamel

    Water-tight (NEMA4); Stainless steel Fiberglass

    Explosion-proof (NEMA7/9); CONFIRM Class, Division, & Group of the area _____

30. WHAT TYPE OF MOTOR IS REQUIRED FOR THE VACUUM PUMP?

    Totally enclosed fan cooled (TEFC)

    Explosion-proof (NEMA7/9); CONFIRM Class, Division & Group of the area _____

    Other _____

31. HOW FAR WILL THE CONTROL PANEL BE FROM THE VACUUM RECEIVER? _____

    FROM THE VACUUM POWER UNIT? _____.

32. HOW FAR AWAY FROM THE RECEIVER WILL THE VACUUM POWER SOURCE BE LOCATED?
    _____

33. WHAT EXPERIENCE HAVE YOU HAD IN HANDLING THIS PRODUCT? _____

    _____

34. HAVE YOU HANDLED THIS PRODUCT PNEUMATICALLY? _____DILUTE PHASE POSITIVE?_____ VACUUM? DENSE PHASE POSITIVE?

    (a) What problems, if any? _____

    (b) Did one particular filter medium work better than another? _____

35. Use Page 5 to sketch relative location of equipment to be served by the conveying system.

Company Name _____ Date _____

EQUIPMENT LAYOUT

Sketch relative position of equipment to be served by the conveying system. Indicate material entry and exit points for each piece of equipment. If familiar with pneumatic conveying, please add your concept of system components and their possible location. Indicate distances and elevations between various pieces of equipment wherever possible.

Comments:_____