



Vent Sizing Worksheet Round Bag Filter Dust Collector

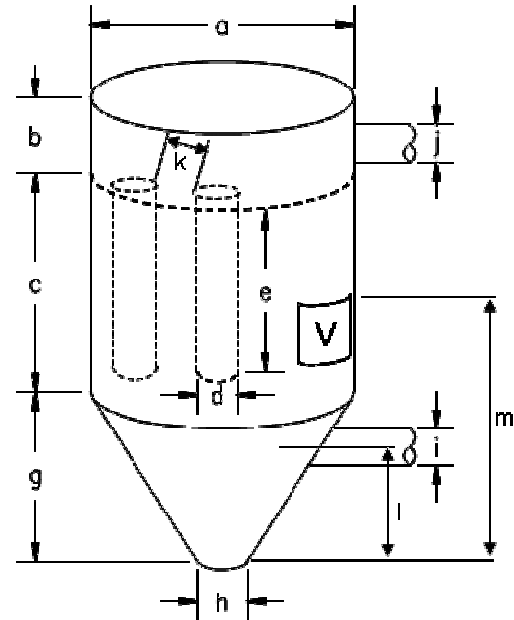
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Company _____
 Address _____

 Project # _____

Contact _____
 Phone _____
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| Process | |
|---|--|
| Maximum positive pressure* | |
| Maximum vacuum | |
| Maximum process temperature | |
| Ambient temperature | |
| Airflow | |
| P_{es} - enclosure strength (P_{red}) | |
| Enclosure location | <input type="checkbox"/> indoors <input type="checkbox"/> outdoors |
| Combustible material (advise if hybrid) | |
| Name | |
| K_{St} | bar*m/sec |
| P_{max} | barg |
| Enclosure | |
| Application | |
| Tag/I.D. Number | |
| Manufacturer | |
| Model Number | |
| a Major diameter | |
| b Clean-straight wall | |
| c Dirty-straight wall | |
| d Filters-diameter | |
| e Filters-length | |
| f Filters-quantity | |
| g Hopper-height | |
| h Hopper discharge-diameter | |
| i Inlet diameter | |
| Distribution baffle | <i>provide sketch</i> |
| j Exhaust diameter | |
| k Maximum bag spacing | |
| l Inlet centerline location | |
| m Vent elevation | Min. Max. |



- Explosion Venting** - Control the Explosion Pressure. Relieves explosion overpressure within process enclosure before destructive levels of pressure are reached.
- Flameless Venting** - Extinguishes the flame from a vented explosion, where it could ignite secondary explosions or endanger personnel. Can Be Used When Vent Discharge Ducts Are Not Possible or Economical

| Explosion Vent | | | |
|----------------------|--|----------------------|--|
| Preferred Vent Model | | Alternate Vent Model | |
| Preferred P_{Stat} | | Alternate P_{Stat} | |
| Preferred Size | | Alternate Size | |
| Preferred Quantity | | | |

| Explosion Vent Discharge Duct (If Applicable) | |
|---|--|
| Overall Length | |
| Number of Elbows | |
| Weather Cover | <input type="checkbox"/> yes <input type="checkbox"/> no |

| Comments |
|----------|
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