



# Explosion Protection Worksheet

## Cyclone Separator

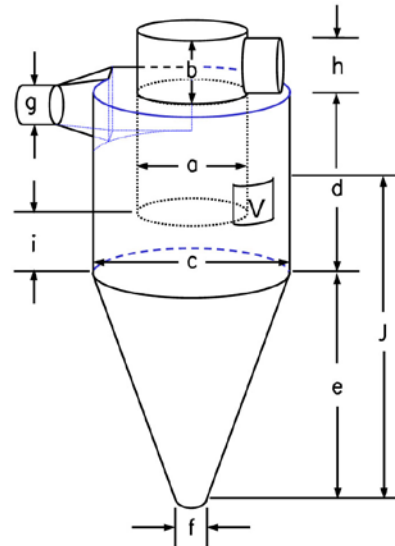
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**Company** \_\_\_\_\_  
**Address** \_\_\_\_\_  
 \_\_\_\_\_  
**Project #** \_\_\_\_\_

**Contact** \_\_\_\_\_  
**Phone** \_\_\_\_\_  
**Fax** \_\_\_\_\_  
**e-mail** \_\_\_\_\_

Process	
Maximum positive pressure	
Maximum vacuum	
Inlet temperature	
Exhaust temperature	
Ambient temperature	
Airflow	
Reduce Explosion Pressure ( $P_{red}$ )	
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	
Tag/I.D. Number	
Manufacturer	
Model Number	
a	Hat / Vortex diameter
b	Hat height
c	Major diameter
d	Straight wall
e	Conical height
f	Product discharge diameter
g	Inlet diameter
h	Exhaust diameter
i	Free straight wall
j	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