

# EXPLOSION PROTECTION QUESTIONNAIRE

## HRD SYSTEM - EXPLOSION SUPPRESSION SYSTEM

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### CUSTOMER DATA

COMPANY

VAT

CONTACT PERSON

Phone number

E-mail

### PROJECT DATA

PLACE OF DELIVERY (CITY, COUNTRY)

PLACE OF INSTALLATION (CITY, COUNTRY)

Location of the equipment

☐

inside

☐

outside

Is there explosion isolation on the pipeline?

☐

yes

☐

no

### PRODUCT (DUST) SPECIFICATION

Name

 $K_{St}$  [bar.m/s]

MIE [mJ]

Metallic dust

☐

yes

☐

no

 $P_{max}$  [bar]

MIT [°C]

### EQUIPMENT SPECIFICATION

Protected equipment

Equipment tag / ID number

Duct diameter - inlet [m]

Duct diameter - outlet [m]

Duct length - inlet [m]

Duct length - outlet [m]

Operating temperature - minimum [°C]

Operating temperature - maximum [°C]

Ambient temperature - minimum [°C]

Ambient temperature - maximum [°C]

Maximum positive pressure (overpressure) [bar]

Maximum negative pressure (vacuum) [bar]

Ex Zone - inside

Ex Zone - outside

Pressure resistance [bar] -  $p_{red}$ 

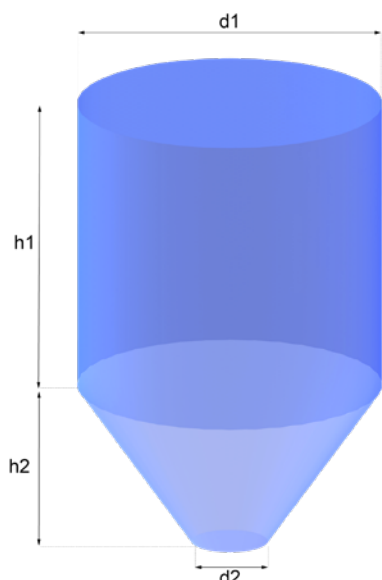
Process characteristics and properties behavior

Comments and additional information

# EXPLOSION PROTECTION QUESTIONNAIRE

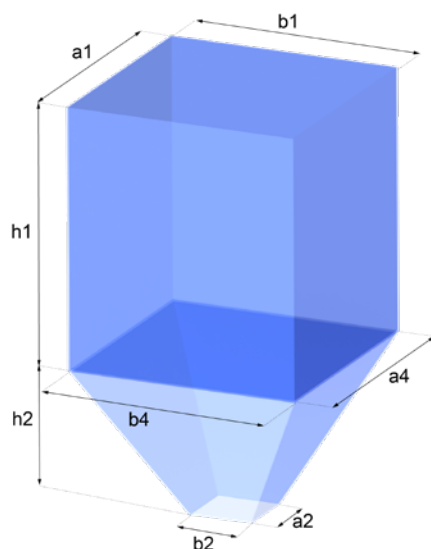
## HRD SYSTEM - EXPLOSION SUPPRESSION SYSTEM

### DIMENSION OF PROTECTED EQUIPMENT



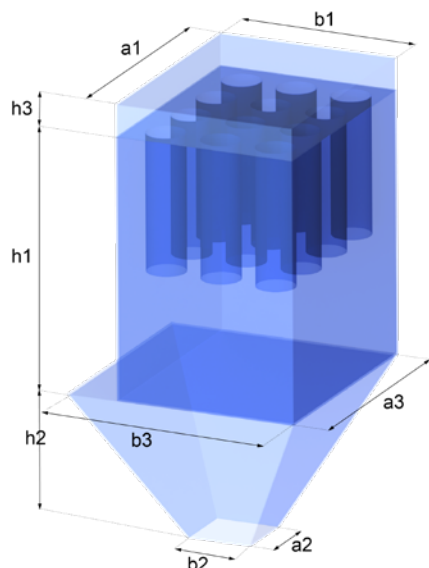
#### A. ROUND VESSEL

d1 [m]	
d2 [m]	
h1 [m]	
h2 [m]	



#### B. RECTANGULAR VESSEL

a1 [m]		b1 [m]	
a2 [m]		b2 [m]	
a4 [m]		b4 [m]	
h1 [m]		h2 [m]	



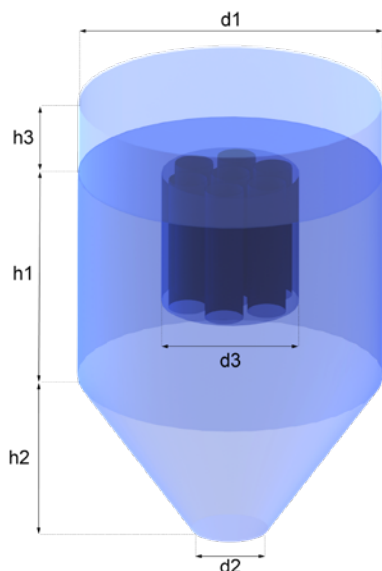
#### C. RECTANGULAR FILTER WITH VERTICAL BAGS

a1 [m]		b1 [m]	
a2 [m]		b2 [m]	
a3 [m]		b3 [m]	
h1 [m]		h2 [m]	
h3 [m]		Number of filtration bags	
Diameter / Dimensions		Length of filtration bags	

# EXPLOSION PROTECTION QUESTIONNAIRE

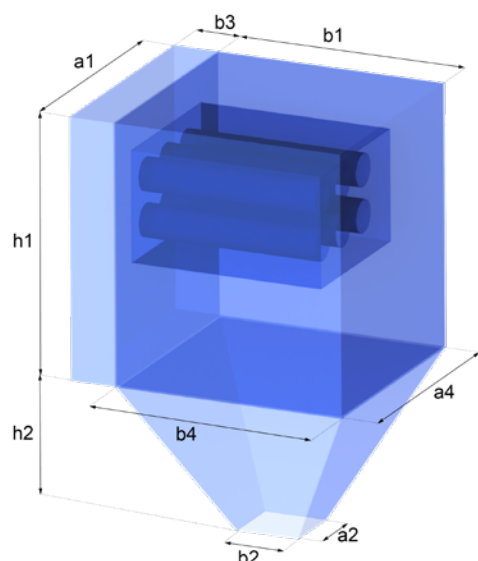
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### DIMENSION OF PROTECTED EQUIPMENT



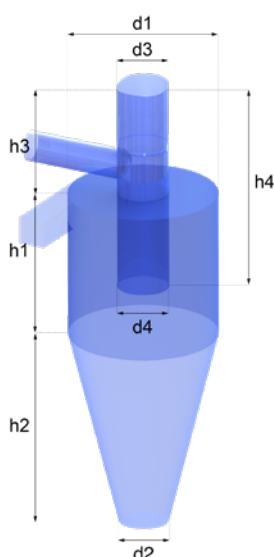
#### D. ROUND FILTER

$d1$ [m] <input type="text"/>	Number of filtration bags <input type="text"/>
$d2$ [m] <input type="text"/>	Diameter / Dimensions <input type="text"/>
$d3$ [m] <input type="text"/>	Length of filtration bags <input type="text"/>
$h1$ [m] <input type="text"/>	
$h2$ [m] <input type="text"/>	
$h3$ [m] <input type="text"/>	



#### E. RECTANGULAR FILTER WITH HORIZONTAL BAGS

$a1$ [m] <input type="text"/>	$b3$ [m] <input type="text"/>
$a2$ [m] <input type="text"/>	$b4$ [m] <input type="text"/>
$a4$ [m] <input type="text"/>	$h1$ [m] <input type="text"/>
$b1$ [m] <input type="text"/>	$h2$ [m] <input type="text"/>
$b2$ [m] <input type="text"/>	Number of filtration bags <input type="text"/>
Diameter / Dimensions <input type="text"/>	Length of filtration bags <input type="text"/>



#### F. CYCLONE

$d1$ [m] <input type="text"/>	$h1$ [m] <input type="text"/>
$d2$ [m] <input type="text"/>	$h2$ [m] <input type="text"/>
$d3$ [m] <input type="text"/>	$h3$ [m] <input type="text"/>
$d4$ [m] <input type="text"/>	$h4$ [m] <input type="text"/>