

**RUPTURE PANEL SIZING CALCULATION FOR DUST OR HYBRID MIXTURE**

Prepared for: Avani  
 cc:  
 Project No.:  
 OSECO Reorder No.:  
 Tag No.:

**ENCLOSURE PROPERTIES**

$P_{stat} = 1.5 \text{ psi(g)} = 0.103 \text{ bar(g)}$   
 $P_{red} = 6 \text{ psi(g)} = 0.414 \text{ bar(g)}$   
 Volume = 191 ft<sup>3</sup> = 5.41 m<sup>3</sup>  
 L/D = 1.3  
 Air Velocity Inside Equipment  $v_{axial}, v_{tangent} = 0 \text{ m/sec}$   
 Fill Fraction  $X_r = -$   
 Vent Duct Length = 1m

**DUST PROPERTIES**

Description:  
 $K_{St} = 508 \text{ bar-m/sec}$   
 $P_{max} = 12.000 \text{ bar}$

**REQUIRED VENT AREA**

$A_{v0} = 1.025 \text{ m}^2 = 11.030 \text{ ft}^2 = 1,588.38 \text{ in}^2$   
 L/D Correction  $A_{v1} = 1.025 \text{ m}^2 = 11.030 \text{ ft}^2 = 1,588.38 \text{ in}^2$   
 Turbulence Correction  $A_{v2} = 1.025 \text{ m}^2 = 11.030 \text{ ft}^2 = 1,588.38 \text{ in}^2$   
 Vent Duct Correction  $A_{v1} = 0.000 \text{ m}^2 = 0.000 \text{ ft}^2 = 0.00 \text{ in}^2$

**RUPTURE PANEL SELECTION**

Size: 24 x 36  
 Type: MV-RF  
 Quantity Per Enclosure: 2  
 Vent Area Per Rupture Panel: 825 in<sup>2</sup>  
 Total Selected Vent Area: 1650 in<sup>2</sup>

Size	Panel Type	Quantity Per Enclosure	Vent Area Per Panel	Total Selected Vent Area
24 x 36	MV-RF	2	825	1650
0	0	0	0	0

0  
0

Prepared By: MMXH

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