

Size-Saf™ 2000 FROM BS&B SAFETY SYSTEMS, Inc.

Calculation Printout

Code : ASME
Medium : Gases & Vapors
Solve for : Disk Size

Input Data :

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Burst Pressure 1,5 bar
Over Pressure 10 %
Temperature 300 °C
Coefficient (K) 0,62
Flow Rate 1197 kg/hr
Cp/Cv (k) 1,38
Specific Gravity 1,03
Molecular Weight 29,69
Tag number

Calculated Results:

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Required Flow Area 1,8331 in²
Equivalent Diameter 1,5278 in

This calculation is valid only when the Rupture Disk discharges directly to atmosphere under the following conditions:
* The Rupture Disk device is installed within 8 pipe diameters from the vessel exit nozzle
* The length of discharge pipe from the Rupture Disk device to atmosphere is not greater than 5 pipe diameters
* The nominal diameter of the inlet & discharge piping are equal or greater than the nominal size of the Rupture Disk device
* The Minimum Net Flow Area (MNFA) for the Rupture Disk Technology selected equals or exceeds the required flow area

Calculation Date and Time : 14/06/2010 14:52:26