

# Discharge Report

## Workspace: 72341-2FSRURegas

Study: FSRU in rigassificazione

Equipment Item: 9R Compressore BOG LD

72341-2FSRURegas\FSRU in rigassificazione\9R Compressore BOG LD

Material	<b>GAS NATURALE</b>	
East	0	m
North	0	m

### Scenario (Leak) : 25mm

72341-2FSRURegas\FSRU in rigassificazione\9R Compressore BOG LD\25mm

Weather: Category 2/F

#### INPUT DATA

##### Inventory data

Mass in vessel	<b>38,7479</b>	kg
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##### Stagnation Data (upstream end for long pipe)

Initial pressure (gauge)	<b>7,5</b>	bar
Initial temperature	<b>45</b>	degC
Fluid state	<b>Pressurized gas</b>	

##### Scenario data

Phase to be released	Vapour	
Hole diameter	<b>25</b>	mm
Discharge coefficient	<b>0,62</b>	fraction

#### OUTPUT DATA

Mass flow rate	0,440366	kg/s
Release duration	87,9904	s

##### Orifice or pipe exit data (before atmospheric expansion)

Pressure	4,6402	bar
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Temperature	3,65916	degC
Liquid mass fraction	<b>0</b>	fraction
Velocity at vena contracta (at exit for pipe releases)	417,621	m/s
Discharge coefficient	0,62	

### Final Data (after atmospheric expansion)

Temperature	21,2178	degC
Liquid mass fraction	0	fraction
Droplet diameter	0	um
Expanded diameter	<b>0,0515091</b>	m
Velocity	300	m/s

## Weather: Category 5/D

### INPUT DATA

#### Inventory data

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#### Stagnation Data (upstream end for long pipe)

Initial pressure (gauge)	7,5	bar
Initial temperature	45	degC
Fluid state	Pressurized gas	

#### Scenario data

Phase to be released	Vapour	
Hole diameter	25	mm
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Velocity at vena contracta (at exit for pipe releases)	417,621	m/s
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Expanded diameter	0,0515091	m
Velocity	300	m/s



