

Discharge Report

Workspace: 72438-1RiempFSRU-2R

Study: Riempimento FSRU-ME7

Equipment Item: 2Ra Compensatore BOG HD

72438-1RiempFSRU-2R\Riempimento FSRU-ME7\2Ra Compensatore BOG HD

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 75mm

72438-1RiempFSRU-2R\Riempimento FSRU-ME7\2Ra Compensatore BOG HD\75mm

Weather: Category 2/F

INPUT DATA

Inventory data

Mass in vessel	224,486	kg
----------------	----------------	----

Stagnation Data (upstream end for long pipe)

Initial pressure (gauge)	1	bar
Initial temperature	-110	degC
Fluid state	Pressurized gas	

Scenario data

Phase to be released	Vapour	
Hole diameter	75	mm
Discharge coefficient	0,62	fraction

OUTPUT DATA

Mass flow rate	1,36865	kg/s
Release duration	164,02	s

Orifice or pipe exit data (before atmospheric expansion)



Pressure	1,09415	bar
Temperature	-132,787	degC
Liquid mass fraction	0	fraction
Velocity at vena contracta (at exit for pipe releases)	287,33	m/s
Discharge coefficient	0,62	

Final Data (after atmospheric expansion)

Temperature	-134,871	degC
Liquid mass fraction	0	fraction
Droplet diameter	0	um
Expanded diameter	0,0596378	m
Velocity	300	m/s



Weather: Category 5/D

INPUT DATA

Inventory data

Mass in vessel	224,486	kg
----------------	---------	----

Stagnation Data (upstream end for long pipe)

Initial pressure (gauge)	1	bar
Initial temperature	-110	degC
Fluid state	Pressurized gas	

Scenario data

Phase to be released	Vapour	
Hole diameter	75	mm
Discharge coefficient	0,62	fraction

OUTPUT DATA

Mass flow rate	1,36865	kg/s
Release duration	164,02	s

Orifice or pipe exit data (before atmospheric expansion)

Pressure	1,09415	bar
Temperature	-132,787	degC
Liquid mass fraction	0	fraction
Velocity at vena contracta (at exit for pipe releases)	287,33	m/s
Discharge coefficient	0,62	

Final Data (after atmospheric expansion)

Temperature	-134,871	degC
Liquid mass fraction	0	fraction
Droplet diameter	0	um
Expanded diameter	0,0596378	m
Velocity	300	m/s



