

Flare Stack Calculation Sheet

Simple Approach

Title : HP Flare Calculation	Date of Calculation : ###
Project No : 1131/SKPI-SKPP-2006	Calculate By : Erwin Apriandi

1 Description	Symbol		Unit	
2 Flowrate		75.010	MMscfd	
3		68.501.944	m ³ /hr	
4		24.584	m ³ /s	
5 Mass Flow	W	90123.000	kg/hr	
6 Mol Weight	M _w	24.070		
7 Pressure at Flare Tip	P ₂	124.000	kPa	
8 Flowing Temperature	T	283.900	K	
9 Compressibility factor	z	1.000		
10 Ratio of Specific Heat	k	1.210		
11 Mach No		0.450		
12				
13				
14 Flare Tip ID		0.404	m	
15				
16				
17 Heat of combustion		47140.000	kJ/kg	
18 Heat Liberated	Q	1180110.617	kW	
19 Flame Length	L	60.000	m	approx
20				
21 Wind velocity	U _w	14.900	m/s	Fig 8 & 9
22 Flare Tip velocity	U _f	192.276	m/s	
23	U _w /U _f	0.077		
24				
25				
26	ΣΔy/L	0.460		approx
27	ΣΔy	27.600	m	Fig 10
28				
29	ΣΔx/L	0.770		approx
30	ΣΔx	46.200	m	Fig 10
31				
32				
33 Fraction Radiated Heat	F	0.300		
34	τ	1.000		
35 Allowable Radiation	K	6.310	kW/m ²	
36 Safe Distance to Flame Centre	D	66.836	m	
37				

Api Rp 521 Flare Kalq12

JG Myers



Api Rp 521 Flare Kalq12:

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