



SERVICE	High Pressure Flare Tip - Emergency Flow
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Design Data	
Flare Condition	Emergency
Maximum Gas Flow (kg/h)	66,929,662.00
Flare Tip Height (m)	50
Low Heating Value (Kcal/kg)	126.751
Low Heating Value (Btu/lb)	620.04144
Emissivity Factor	0.21
Relative Humidity (%)	82
Wind Velocity (m/s)	3.576
Sun Radiation* (W/m2)	0
Sun Radiation* (Btu/ft2h)	0

Flame Geometry As Per API 521	(m)
L = Length of Flare / Max Flow	
DX = Distance from Radiant Point Axis to Tip Axis	60
DY = Distance from Radiant Point Axis to Top of Tip	40

Radiation at Deck Level As Per API 521	
Maximum Radiation (KW/m2)	4.73
Maximum Radiation (Btu/ft2H)	19.897
Distance from Flare Base (m)	50

[illegible]

General Notes:

1	The above radiation does not include the sun radiation.
2	Model based on a West wing @ 3.576 m/s