ELEVATED FLARES

THERMOENGINEERING provides a wide range of advanced Flare Systems, classified according to their structural support:
> Self-Supporting
> Guy wired
> Derrick

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ADVANCED COMBUSTION SYSTEMS


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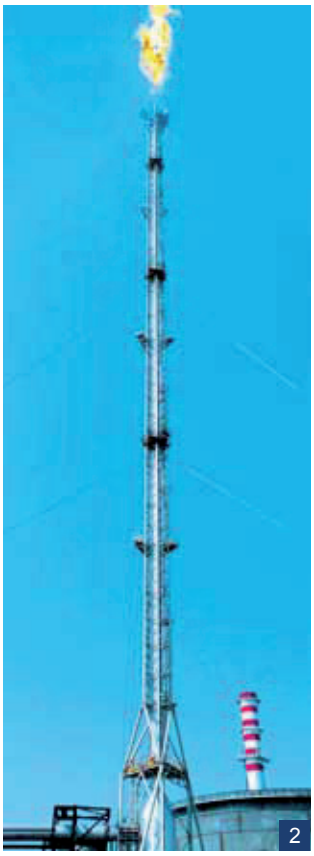
The height of Flare Systems is determined according to the limit imposed on ground radiation when the system is in operation: the lower the imposed ground radiation value, the higher the flare system at a given mass flow rate.

Self-supporting Flare Systems are selected when the flare height is lower than 50 meters. This solution is economical, easy to erect and requires relatively less installation space.

Guy-wired Flare Systems are designed for applications in which the flare height is up to 150 meters. Investment for guy-wired flare systems is generally lower than the other types of structural support; however, their installation requires a wider area.

Derrick structure can be the optimum solution for Flare Systems installed inside plants, when higher elevation is required to limit ground radiation and available area is limited as a result of other present equipment. The height of this type of flare can be even more than 200 meters.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[1] Elevated Flare Guy-Wired Type // Client: Midor // Place: Alessandria D'egitto (Egypt)
[2] Elevated Flare Derrick Guy-Wired Type // Client: Eni // Place: Sannazzaro (Italy)
[3] Elevated Flare Derrick Type // Client: IES-MOL // Place: Mantova (Italy)
[4] Elevated Flare Derrick Type // Client: Samir // Place: Marocco

FLARE TIPS

Flare tips are available in various solutions, both in smokeless and non-smokless operations.

Flare Tips main characteristics are:

> Manufactured with high temperature resistant materials
> Equipped with high-efficiency ignition and flame detection devices
> Equipped with a special flame retention ring suitable to assure the stability of the flame at high gas exit speed (up to 1 mach)
> Equipped with a connection flange for easy substitution


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[5] Burner Pit (Orizontal Flare) // Client: Aramco // Place: Hawiyah (Saudi Arabia)
[6] Elevated Flare Derrick Type // Client: APC // Place: Alexandria (Egypt)
[7] Off Shore Boom Flare // Client: Enppi // Place: Alexandria (Egypt)
[8] Flare Tip SFT Type
[9] Elevate Flare Guy-Wired Type // Client: ABB Lummus // Place: Bhp Ohanet (Algeria)
[10] Air Smokeless Flare Tip

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