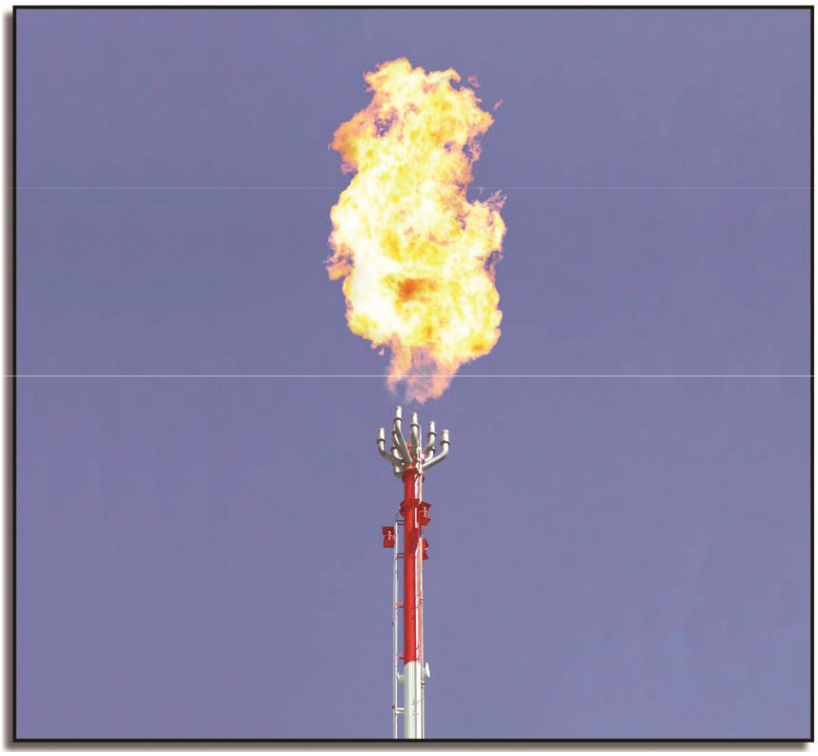
Variable Mach Sonic Flare (VM-SA)



Description

AEREON's Flare Industries Variable Mach (VariMach) sonic flare tip combines engineering and performance to deliver low-radiation, smokeless combustion over a full range of flow conditions. Spring-actuated variable sonic nozzles allow the exit area to vary with pressure, ensuring constant sonic velocity of waste gas. The industry proven technology guarantees sufficient inspiration of air to ensure 100% smokeless combustion and infinite turndown. Radiation levels are also minimized throughout the entire range of flow, yielding shorter stack heights and boom lengths and reducing material costs. Additionally, the VariMach has the lowest purge rate of any flare technology on the market, minimizing utility costs while maintaining flashback protection.

Design Features

- 100% smokeless combustion
- Maintains sonic velocity throughout the entire range of flow rates
- Engineered parabolic carnation body
- Infinite turndown
- High combustion efficiency
- Lowest purge gas rate of any flare tip on the market
- Cast stainless steel spider burner and sonic nozzles
- High alloy material construction in the heat affected zone
- Wide range of sizes available
- Variable exit area
- Spider-burner for array cross-lighting
- Entrained liquid flaring
- HP/LP combinations available

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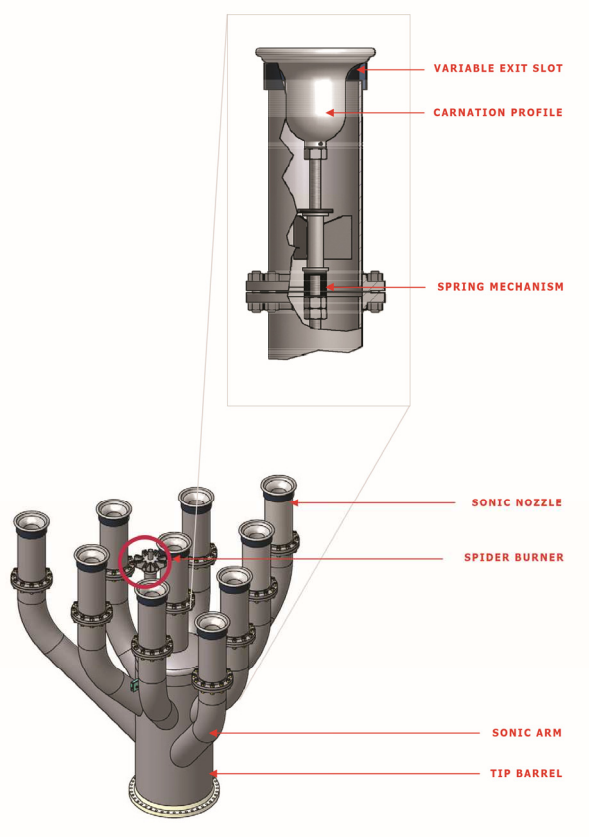
Principle Applications

- Offshore production
- Pipeline transportation
- Petrochemical production
- Natural gas compression and production
- High pressure waste gas



Materials

Upper Tip Barrel:	304 Stainless Steel 316 Stainless Steel 310 Stainless Steel Incolloy/Inconel
Sonic Arm:	304 Stainless Steel 316 Stainless Steel 310 Stainless Steel Incolloy/Inconel
Lower Tip Barrel:	Carbon Steel

Specifications

Tip Length:	10’ (3.3 m)
Tip Diameter:	4” – 120” (100 – 3050 mm)
Nozzle Diameter:	4” – 12” (100 – 3050 mm)
Noise Reduction*: *Versus conventional sonic flare	8 – 10 dBa