

ADVANTAGES

- ▶ High smokeless capacity due to high velocity air induction and multi-point design
- ▶ Long service life under normal flow conditions
- ▶ Lower radiant heat
- ▶ Effective cost solution for offshore platform use reduces size and expense of flare boom
- ▶ Able to burn entrained liquids without smoke formation or liquid droplet fallout

GENERAL DESCRIPTION

MACH 1 is the speed of sound. Flare Industries' cutting edge MACH-1 sonic flaring technology operates at this velocity in order to combust waste gas smokelessly. Sonic flares utilize multi-point exit nozzles to dispose of high pressure waste gas streams. The MACH-1 Sonic Flare Tip utilizes the pressure of the waste stream (creating sonic exit velocities) to create turbulent mixing and induce excess quantities of air for more complete combustion. Sonic flare tips emit reduced levels of radiation and can be placed at lower, less visible elevations. This advanced flaring technology is excellent for applications with high pressure waste gases and high capacity smokeless requirements.



MACH-1
SONIC FLARES

PRINCIPLE APPLICATIONS

Offshore production
 Pipeline transportation
 Petrochemical production
 Natural gas compression and production
 High pressure waste gas
 Steam or air assist is undesirable or unavailable

DESIGN FEATURES

Flow rates up to sonic velocity
 Flame stabilization from center spider burner
 Multiple arm design
 Single point ignition source
 Wide range of diameters
 High alloy construction in the heat affected zone

SPECIFICATIONS

DIMENSIONS: Length: 10' - 0" (3m)
 Diameter: 4" - 84" (0.1-2.13m)

MATERIALS: Upper Section: 304, 316, 310 SS
 Incolloy 800H
 Arm Material: 304, 316, 310 SS
 Incolloy 800H
 Lower Section: Carbon Steel

MACH - 1 SONIC FLARE TIP

