

## SONIC FLARES

## 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.



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CUTTING EDGE COMBUSTION AND ENVIRONMENTAL TECHNOLOGY, EXPERIENCE, INNOVATION AND SUPERIOR SERVICE.



## 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:

Diameter: 4" - 84" (0.1-2.13m)

MATERIALS:

Upper Section: 304

304, 316, 310 SS

Incolloy 800H

10' - 0" (3m)

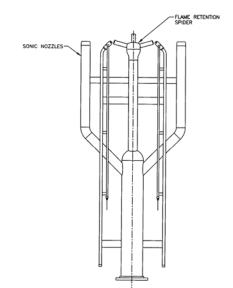
Arm Material:

304, 316, 310 SS

Incolloy 800H

Lower Section:

Carbon Steel



MACH - 1 SONIC FLARE TIP

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