Flame Ring Flare

Description

Carbon Dioxide, or CO_2, is often used in fire extinguishers and snuffing systems; so you can imagine what it is like to try and burn it. Many of our clients have flare applications which require disposal of gas streams with high carbon dioxide content. As the volumetric percentage of CO_2 increases, the flaring capacity of a given flare system decreases. The Flame Ring Flare Technology is used to provide a veritable ring of fire at the perimeter of the flare tip; thus ensuring proper ignition and stable combustion of these waste gases.

This technology also increases the capacity of the flare system by preventing auto-suppression of the flame, caused by high quantities of CO_2, CO, or low heating value waste streams. The Flame Ring Flare Tip by Flare Industries is the perfect solution for these types of applications.

Advantages

- Capable of burning low
- BTU gas streams
- Disposes of waste gas with high CO2 and CO content
- Higher flow capacity for high CO2 and CO waste streams
- Stable, reliable combustion due to flame retention ring
- Long service life under normal flow conditions

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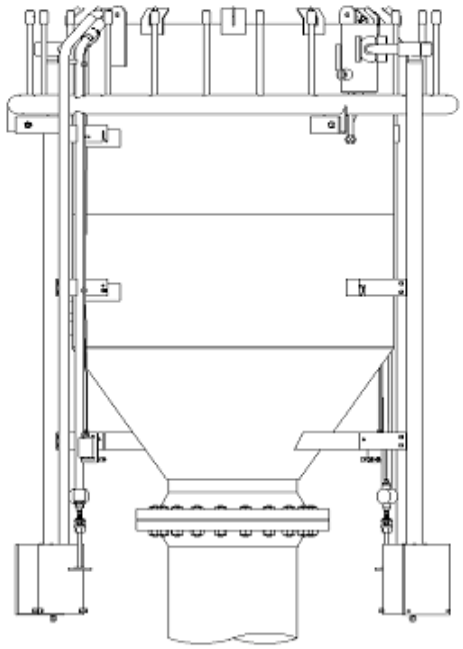

Principal Applications

- Low BTU waste gases
- Waste gases with high CO2 or CO content
- Petroleum refining
- Petroleum production
- Chemical processing

Specifications

DIMENSIONS

Length:	10’ - 0” (3m)
Diameter:	4” - 84” (0.1-2.13m)

MATERIALS

Upper Section:	304, 316, 310 SS Incoloy 800H (options)
Lower Section:	Carbon Steel
Flame ring manifold:	304, 316, 310 SS Incoloy 800H (options)
Retention Ring:	304, 316, 310 SS
Dynamic Seal:	304 SS

Design Features

- Circumferential assist gas ring
- Circular ignition source
- Assist air to maintain waste gas within the combustion zone
- High alloy construction in the heat affected zone
- Flame retention ring to stabilize combustion
- High alloy air shroud