

# AIR ASSIST FLARES

#### ADVANTAGES

- High smokeless rates due to superior mixing
- Capable of burning heavier hydrocarbons smokelessly
- ➤ Extended service life
- Lower operating costs at a given smokeless rate
- Lower radiant heat at a given capacity
- Stable, reliable combustion
- Wide range of flow capacities
- Less complicated control scheme

### GENERAL DESCRIPTION

Air assist flares smokelessly dispose of heavier waste gases which have greater tendency to smoke. Air Assist flares can be employed at sites where steam may not be available.

Air flare systems are composed of two concentric risers and one or more blowers providing supplemental combustion air. A blower forces air into an outer air annulus where the process gas passes through an inner riser and upon reaching the flare tip, these two streams intermix. This air assist has three principle effects:

- ➤ High-pressure airflow causes turbulence in the waste stream which improves mixing and therefore enhances combustion efficiency.
- Additional air is induced into the waste gas providing the oxygen necessary for augmented smokeless capacity.
- Constant airflow creates a cooling effect for extended flare tip service life.



FREESTANDING AIR ASSIST FLARE

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



## AIR ASSIST FLARES

### PRINCIPLE APPLICATIONS

Petroleum refining

Petroleum production

Chemical processing

Pipeline transportation

Tank and barge loading facilities

Natural gas compression and production

DESIGN FEATURES

Large air/fuel boundary to increase smokeless capacity

Dynamic/Velocity seal to reduce purge gas

expenses and prevent flashback

High alloy construction in the heat affected zone

One or more blowers for greater smokeless range

SPECIFICATIONS

**DIMENSIONS:** Length: 6' - 0" (1.8m)

Diameter: 4" - 84" (0.1-2.12m)

**MATERIALS:** Tip Body: 304, 316, 310 SS

Incolloy 800H

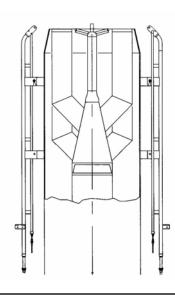
Dynamic seal: 304 SS

MODELS: MAVP: High Pressure Vapors

SFVP: Low Pressure Vapors

Environ: High Capacity

ENVIRON AIR FLARE TIP



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