



# VARIJET TIP

## VJ Series



*VariJet Flare Tip*

### Flare tips you can trust.

Zeeco's high-pressure VariJet™ flare tip assembly is carefully engineered to provide years of reliable and efficient service in challenging environments. Flare tip assemblies are repeatedly subjected to extreme temperatures, highly oxidizing atmospheres, and severe wind and rain. A poorly designed flare tip can be plagued by problems in these difficult service conditions.

### VariJet technology.

ZEECO® VariJet (Variable Jet) flare tips are high-pressure tips that use the energy of a high-pressure gas stream to improve smokeless performance. To enhance the tip's ability to capitalize on high exit velocities and superior mixing that results from high gas-to-air surface area ratios, each arm of the VariJet tip incorporates a self-actuated variable exit area assembly. This assembly opens as necessary relative to internal pressure to ensure operation at high exit velocities over a wide range of flow rates. By operating at a high exit velocity, the flare does not require additional assist media such as steam or air to operate smokelessly, even at low flow rates. This flare tip design delivers the normal benefits of a high-pressure sonic flare, such as well defined and erect flame patterns and low fractions of heat radiated over a much wider range of flows, which leads to lower radiation levels on platforms and at ground level.

The operation of the VariJet is controlled by the incoming flare gas pressure that causes the exit area to vary, thereby providing a constant backpressure and high exit velocity across the full operating range. Through the utilization of the VariJet's varying exit area, purge gas requirements are the lowest of any flare type. This technology also allows the VariJet to be mounted and function well when firing at an angle or even horizontally.

### Why choose Zeeco?

Zeeco leads today's global market in the design of advanced combustion and environmental solutions. With engineers around the world, we offer the experience, knowledge, and tools to properly size and design any flare, anywhere. For nearly 40 years, ZEECO flare systems have played vital roles in industries on virtually every continent. Our mission to provide customers with superior quality, on-time shipments, and competitive pricing is the cornerstone of our success. Let Zeeco put its legendary experience to work for you. Call or email us today to learn more about the full line of ZEECO flare products and replacement components for your new or existing flare system.



BURNERS



FLARES



INCINERATORS



PARTS & SERVICE

# VariJet™ Flare

## Applications

- Offshore and onshore oil and gas production, gas compression facilities, gas pipelines, LNG process plants, petrochemical, olefins, polyolefins facilities
- Where smokeless flaring is required
- Bolt-on replacement for other manufacturers' flare tips
- Flaring of gases that will produce smoke

## Advantages

- High stability, low fuel consumption pilots are standard
- 98.5% or higher hydrocarbon destruction efficiency
- Superior materials and construction features
- Non-assisted smokeless operation
- Low radiation levels
- Liquid carryover flaring requirements
- Mixed phase discharge capability
- Smaller knockout drums and piping
- Very large gas capacities with high smokeless requirements
- Shorter flame length

## Features

- Sizes from 6 inch (152.4 mm) to 72 inch (1828.8 mm)
- Most economical flare for high-pressure use
- High stability pilots (tested to 170 mph [274 km/h] windspeed)
- Critical parts supplied as investment castings
- All stainless steel materials



VariJet Tip Flaring

ZEECO® combustion solutions are designed and manufactured to comply with applicable local and international standards as defined by our customers.



REGISTERED  
ISO 9001: 2008

CERTIFICATION APPLIES TO ZEECO HEADQUARTERS ONLY.

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