



# VARIJET TIP

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.  
PURE AND SIMPLE.®

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## VJ Series



*VariJet Flare Tip*

### Flare tips you can trust.

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

### VariJet technology.

The ZEECO® Variable Jet (VariJet) 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 result from high gas to air surface area ratios, each arm of the VariJet tip incorporates a self actuated variable exit area assembly that 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 any additional assist media such as steam or air to operate smokelessly, even at low flow rates. This type of flare tip gives 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 varying exit area, purge gas requirements for the VariJet are the lowest of any flare type. Additionally, using this technology 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 combustion equipment. Our engineers have the experience, knowledge and tools to properly size and design any flare, anywhere. ZEECO flare systems have been operating around the globe for over 30 years. Our philosophy of providing customers with superior quality, on-time shipments, and competitive pricing is the cornerstone of our success. Let us put our 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.

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BURNERS



FLARES



INCINERATORS



PARTS & SERVICE

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.  
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# VariJet™ Flare

## Applications

- Offshore and onshore oil and gas production, gas compression facilities, gas pipelines, LNG process plants, grassroots 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 150 mph [241 Km/hr] windspeed)
- Critical parts supplied as investment castings
- All stainless steel materials



VariJet Tip Flaring

CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS ONLY.



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NBBI



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ASME



CERTIFIED  
ASME



REGISTERED  
ISO 9001: 2008

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