

Flare Gas Ejectors

Traditionally in the oil & gas industry, waste and surplus gas has been disposed of by flaring to atmosphere. Today this process is becoming increasingly unacceptable as the industry progresses towards eliminating the emission of greenhouse gases into the atmosphere whilst simultaneously conserving energy.

Therefore, the demand for equipment that can safely and economically compress waste and surplus gas back into the production process is rapidly increasing.



Flare Gas Recovery Ejector, complete with motive gas control system for ConocoPhillips, Indonesia



Flare Gas Recovery Ejector for BP, Norway

Transvac Gas Ejectors are ideally suited to this application because they employ high-pressure gas energy to entrain and compress waste and surplus gas to a pressure where the gas can be used in the process.

Advantages

- Proven Technology
- No moving parts
- No maintenance
- Safe to operate
- Simple to install
- Low noise levels
- No special controls or instrumentation
- Low cost
- Custom designed
- Pressure easily controlled by standard techniques



Flare Gas Recovery Ejector for BP, Norway

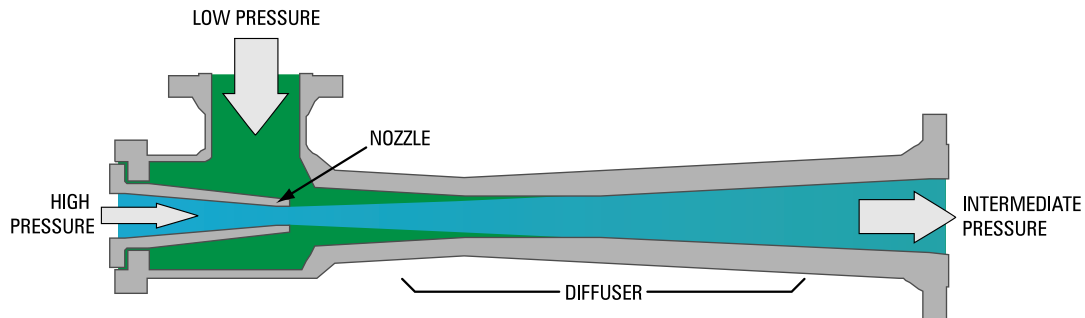


Flare Gas Recovery Ejector for Cairn, India

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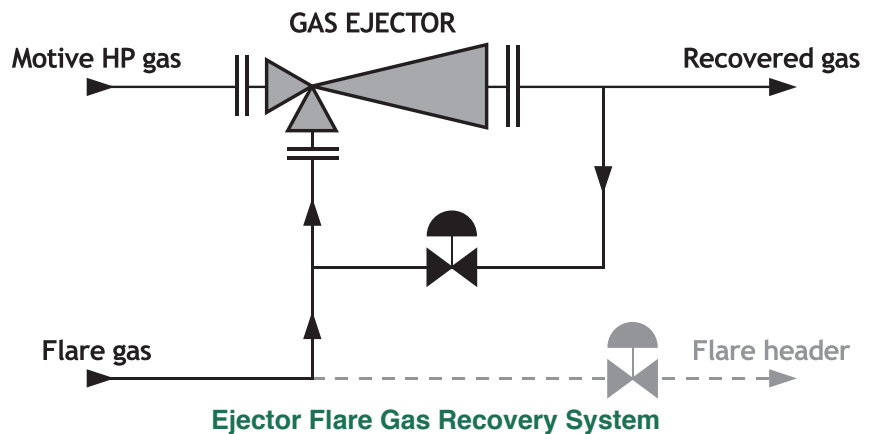
Principle of operation

Gas Ejectors have no moving parts and use high-pressure fluid to compress low-pressure fluid to an intermediate level.



Typical Production Layout

Schemes could involve the use of a side stream taken from the discharge of the Gas-lift Compressors as the HP motive gas supply. Schemes in which the flare gas is compressed into the fuel gas system are also common.



Control

It is not uncommon for the flowrate of the flare gas to vary and; if not controlled, the suction pressure created by the Gas

Ejector will also vary. In order to maintain the desired pressure on the low pressure side of the Gas Ejector, a number of standard control techniques are available. These include:-

- Recycling of gas from the discharge side of the Gas Ejector back into the low pressure side.
- Incorporation of an integral HP gas regulating assembly which varies the motive fluid consumed.

Mechanical Design

Transvac Gas Ejectors are designed and manufactured in accordance with recognised codes including ASME B31.3, ASME VIII Div.1, PD 5500, DEP, Norsok etc. with full non-destructive testing.

All products comply with the requirements of the Pressure Equipment Directive (PED) and are CE marked where appropriate.

All of our design and manufacturing processes are quality assured and certified to BS EN 9001:2000 and we are also registered with 1st Point Assessment and Achilles.