# Gas & Liquid Jet Ejector

Substantial reduction in the size due to High values of mass transfer coefficient







### **Product Overview**

Ejectors are co-current flow systems, where simultaneous aspiration and dispersion of the entrained fluid takes place. This causes continuous formation of fresh interface and generation of large interfacial area because of the entrained fluid between the phases. According to the Bernoulli's principle, when a motive fluid is pumped through the nozzle of a gas–liquid ejector at a high velocity, a low pressure region is created just outside the nozzle The motive fluid jet performs two functions; one, it develops the suction for the entrainment of the secondary fluid and the second, it provides energy for the dispersion of one phase into the other.

## **TYPICAL APPLICATIONS**

Liquid-liquid ejector(Eductor) is one of the most common ejector applications. An above-ground centrifugal pump is combined with an ejector placed at the bottom of a well to form a jet-pump system that is able to draw water from wells deeper than 34 ft. Gas ejectors widely use in industrials as compressor gas, HP production separator gas and lift/injection gases. In addition, it use high-pressure (HP) gas to safely and economically compress flare, vent, and surplus or lowpressure (LP) gas. Restart of dead wells and flare gas recovery are its advanced applications.

# **PRODUCT RANGE**

Our eductors use water or other liquids to create vacuum that can be used to suck in other liquids for mixing, diluting or creating solutions to exhaust gasses. Air ejectors use compressed air or other gasses to create vacuum that can exhaust, vent, or evacuate. DESIGN CODES & STANDARDS : ASME Sec. VIII Div 1, HEI, TEMA MECHANICAL DESIGN SOFTWARES: PVElite, Abaques, NozzlePro, Solidworks



#### ACCESSORIES

All applicable sizes are supplied with the following accessories:

- Motive Nozzle
- Connection Flanges
- Bolts & Nuts and Gaskets
- Silencers
- Electrical Control Accessories
- Strainers and Interconnecting
- Propelling Liquid Valve

