

Ejector
Product Coding
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Introduction

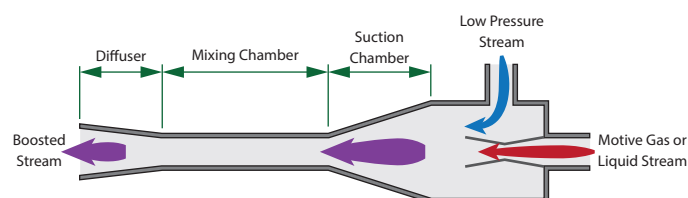
An ejector is a device that uses a high pressure motive fluid passing through a nozzle into a low pressure mixing zone to create high velocity, mix with a secondary (load) fluid, and discharge the mixture at a higher pressure through a diffuser. Ejectors operate without moving parts, require no mechanical drive, and are widely used in various industries for pumping, vacuum creation, mixing applications, or product sampling. Their design varies depending on the application, with common examples including steam jet ejectors for vacuum generation.

Features

- **No moving parts:** Completely static design ensures extremely high reliability and minimal maintenance.
- **Rugged construction:** Manufactured from carbon steel, stainless steel, duplex, or special alloys for corrosive and high temperature services.
- **Wide operating range:** Handles gases, vapors, liquids, and two phase mixtures with stable performance.
- **Compact and light weight:** Requires little installation space compared with mechanical vacuum systems.
- **Plug free geometry:** Smooth internal contours reduce fouling and allow operation with dirty or particulate laden streams.
- **Energy efficient integration:** Utilizes available high pressure process fluids or steam, eliminating the need for rotating equipment.
- **Custom hydraulic design:** Tailored nozzle, mixing chamber, and diffuser geometry for specific suction pressure, compression ratio, and flow rate.
- **Low noise and vibration:** Silent operation with no mechanical vibration.

Applications

- **Vacuum generation systems:** Distillation columns, vacuum towers, and dehydration units.
- **Gas recovery and recompression:** Entrainment of low-pressure off-gases into flare or fuel gas systems.
- **Condensable vapor handling:** Steam ejectors for vacuum distillation and thermal separation processes.
- **Liquid jet pumps:** Circulation of hydrocarbons, amines, caustic, or cooling water.
- **Ejector refrigeration systems:** Waste-heat driven cooling cycles.
- **Tank and vessel evacuation:** Rapid depressurization and purging.
- **Environmental control:** Vapor recovery units and emission control systems.



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