Cyclone Feed Inlet

Product Coding
P25010XXXX

Introduction

Cyclone feed inlet (CFI) is an advanced inlet conditioning solution designed to optimize fluid distribution and enhance phase separation in production vessels. Using controlled cyclonic motion, the CFI rapidly dissipates inlet momentum, breaks down foam, and separates entrained gas from liquids before they reach downstream internals. Its engineered flow path minimizes shear, protects liquid levels, and improves overall separator efficiency even under demanding operating conditions. Compact, modular, and easy to install, the CFI is suited for both new builds and retrofits where stable performance, reliability, and high throughput are required.

Features

- **High efficiency momentum reduction:** Smoothly decelerates incoming flow while preserving separation efficiency and preventing disturbance of liquid layers.
- **Enhanced phase separation:** Generates strong centrifugal forces to separate gas, liquid, and any entrained solids at the inlet region.
- **Foam suppression:** Rapid collapse of foam structures through high cyclonic action, reducing the need for chemicals or oversized vessels.
- **Uniform gas distribution:** Directs gas evenly toward downstream internals to improve mist eliminator performance and reduce carryover.
- **Compact cyclone cluster design:** Provides high processing capacity within a small footprint, allowing higher throughput for a given vessel size.
- **Modular and manway friendly construction:** Components are designed for easy handling, assembly, and maintenance inside the vessel.
- **Robust materials:** Available in stainless steel and corrosion resistant alloys for sour, corrosive, or high temperature applications.
- **Flexible orientation:** Configurable for installation in both horizontal and vertical separators.

Applications

- Production separators (2 phase and 3 phase)
- Knock out vessels
- Test and wellhead separators
- Flash drums and degassing vessels
- Slug catchers
- Any system experiencing foam, high inlet momentum, or uneven phase distribution

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