

Mixed Phase Distributor-V Baffle

Introduction

V baffle inlet device is designed to condition and stabilize incoming vapor only, mixed phase, or two phase feeds at the column inlet. Its robust construction, including a heavy duty impingement plate with wear protection, dissipates the kinetic energy of high velocity feeds, promotes uniform flow across the column cross-section, and enhances downstream hydraulic performance. The device typically is installed on a flash gallery to predistribute in towers.

Features

- Welded, heavy duty construction for long term integrity
- V-shaped impingement plate with wear protection for high energy feeds
- T-box exit configuration for improved flow distribution
- Effective reduction of inlet momentum and turbulence
- Compatible with large diameter columns (above 30 in./760 mm)
- Suitable for vapor, mixed vapor/liquid, and flashing feeds



Benefits

- Absorbs the kinetic energy of two phase feeds
- Directs flow patterns and promotes initial vapor/liquid separation
- Reduces entrance velocities, protecting downstream packing or trays

Applications

- Inlet sections of distillation and absorption columns
- Two phase feed entry where phase separation is required
- High energy or flashing feed streams
- Systems needing reliable vapor distribution without intricate distributor internals
- Revamp or upgrade projects requiring simple, durable inlet solutions

