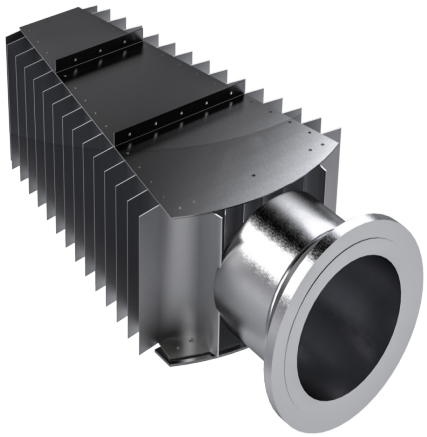
Mixed Phase Distributor-Multi Vane (Shoepentoeter)

Product Coding
P180304XXX

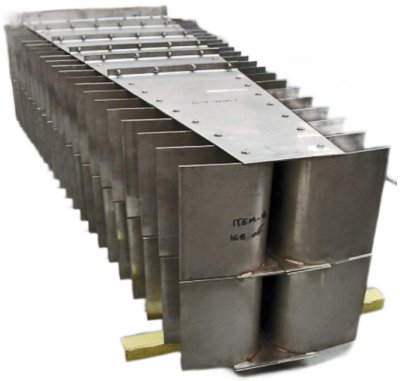
Introduction

Multi vane inlet device, also known as a “Schoepentoeter”, is a high efficiency multi vane inlet distributor designed for optimal gas/liquid separation and uniform flow distribution in both vertical and horizontal separators. Its curved vanes, arranged within a robust housing, gradually guide and decelerate the incoming mixed phase stream, reducing momentum and minimizing shear. This promotes initial phase separation, lowers entrainment, and ensures stable downstream operation. Based on the proven Shell Schoepentoeter design, these devices are widely used in oil, gas, and petrochemical processing, offering low pressure drop and excellent performance even under demanding operating conditions.



Features

- Reduction of agitation
- Excellent mechanical strength
- Suitable for applications with a high gas-to-liquid ratio
- Reduction of foaming and stabilization of the liquid level control
- Suitable for mixed phase feeds in vertical and horizontal separators
- Minimization of fine mist carryover and reduction of liquid re-entrainment.
- Decrease in slug momentum for smoother operation
- Enhancement of 2 and 3 phase separation efficiency
- Low pressure drop for improved energy efficiency
- Constructed from stainless steel; sectional design for manway installation
- Recommended fluid momentum (ρv^2) range: 6000-10000 $kg/(m \cdot s^2)$



Applications

- Distillation towers
- Separation drums
- Water treatment

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