

AccuFlow™ Inlet Diffuser

Feed Inlet Devices



Advantages

- Provides optimal gas distribution
- Minimizes droplet shattering
- Provides bulk liquid separation
- Minimizes liquid re-entrainment

Applications

- 2-phase & 3-phase separators
- Scrubbers
- Compressor KO Drums

Accuflow™ Inlet Diffuser (vane type inlet device) is a feed inlet device installed at an inlet nozzle for process streams with 2-phases (gas and liquid) or 3-phase (gas, liquid and liquid) entering a separator or a scrubber. Primarily, it reduces the momentum of an incoming stream and provides bulk gas-liquid separation whilst assuring a much better and uniform gas distribution across the vessel cross-section area, which is key for phase separation. In addition to this, it offers many other benefits which help improve the overall separator/scrubber performance, including but not limited to, minimizing shattering of liquid droplets and re-entrainment of liquid from liquid surface.

Often higher gas flows coupled with an improper inlet device, such as, Inlet Divertor or V-Baffle may result in poor gas distribution, localized high velocities and in some instances can also cause the gas to jet into the liquid surface.

To meet acceptable efficiencies, or certain oil-in-water and water-in-oil concentrations the inlet device is critical, and hence the Accuflow™ Inlet Diffuser should be employed as a minimum.

