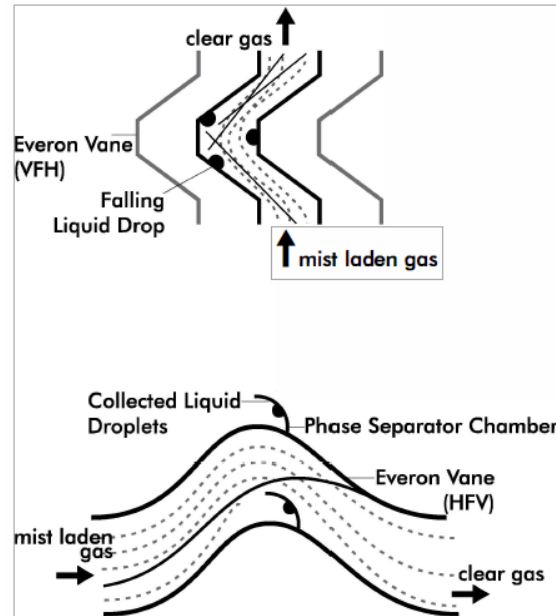
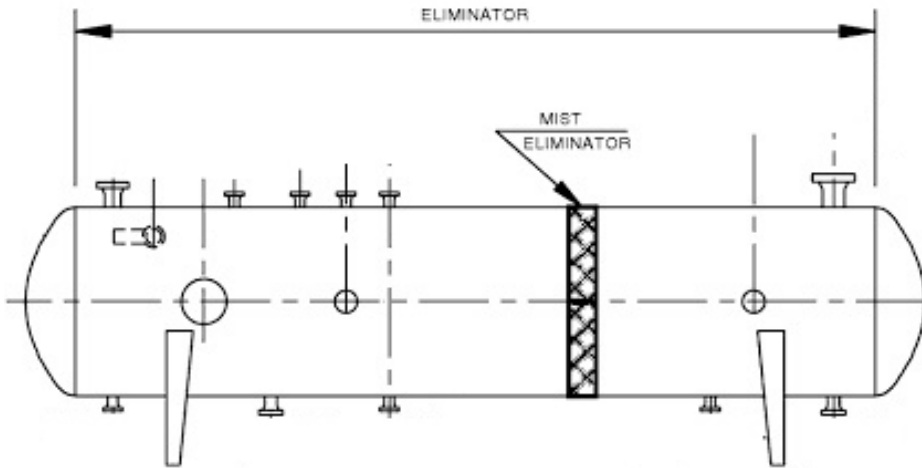




Vane-Type Mist-eliminator



Introduction:

The vane-type design uses an intricate array of metal plates, called vanes, with liquid collection pockets. The vane-type mist extractor is mounted such that the gas stream flows horizontally through the vanes. During this flow, a change in direction is induced several times, resulting in a centrifugal action that aids the primary impingement separation mechanism in removing the finer liquid droplets entrained in the gas. The liquid droplets are forced into the liquid collection pockets, out of the gas flow path, and drain out by gravity. The pressure drop across a Vane-type mist eliminator is very small, it can handle solid in the flowing gas stream, and can remove droplets down to about 40 microns in size.

Advantages compared with Wire mesh demister:

- + Higher capacity: Blades with a smooth profile will give 30% more capacity than a mesh demister
- + Higher liquid loading
- + Lower pressure drop
- + Longer lasting in service
- + Suitable for high liquid viscosity systems

