



JCI Cyclonics Ltd. is a Canadian manufacturer of cyclonic separation products for the Oil and Gas Industry. JCI offers engineered Filtration & Separation Solutions™ for all your cyclonic separation needs using proven technology.



ALTA-CYCLONE VORTEX TUBE INLET DEVICE



The JCI ALTA-CYCLONE is a cyclonic inlet device that utilizes a tangential entry to create centrifugal acceleration. The device can be used in vertical or horizontal vessels intended for gas or liquid dominant flow. The device provides improvement in three important aspects of separation:

- Eliminates Foam
- Breaks Momentum of Process Fluid
- Enhances Gas/Liquid Separation

The ALTA-Cyclone consists of a series of cylindrical tubes internally mounted on a manifold that is either welded or flanged to the inlet nozzle of the vessel. Retrofit designs are available for existing vessels where welding to the vessel wall is not an option.

Process fluid enters the Vortex Assembly through a common header specifically engineered to evenly distribute the flow to each tube. The flow is then directed into the vertical tubes through a tangential opening at the top of each tube, which causes the process fluid to undergo centripetal acceleration. This acceleration imparts significant forces on the process fluid, separating heavier particles (liquid/solids) from gas.

Due to the extremely high forces exerted on the fluid, separation occurs at a faster rate than it would in a conventional vessel, significantly reducing the required retention time. The advantages of decreasing retention time include a reduction of separator size or an increase in throughput.

