

CAVITATING VENTURI-E2700 SERIES

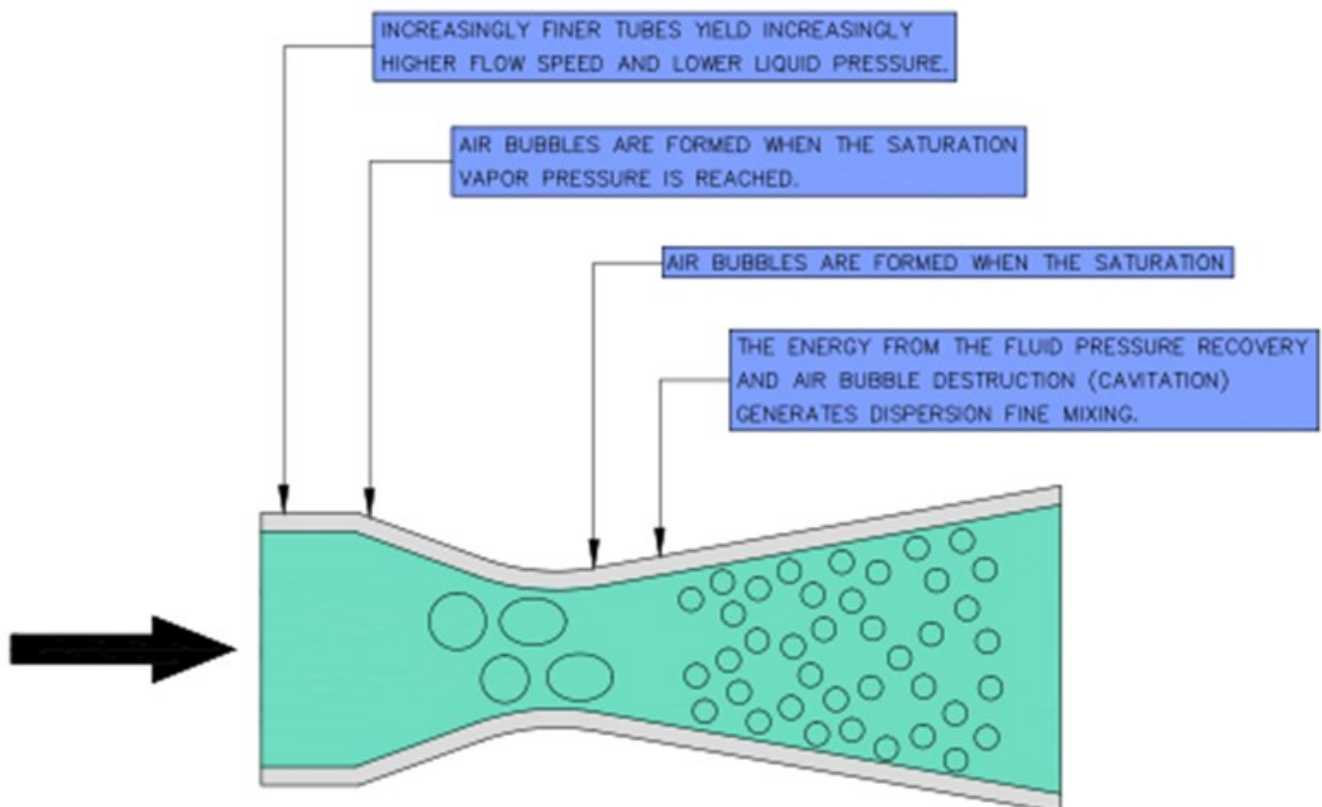


DESCRIPTION:

Cavitating Venturi can be used to limit maximum flow of fluids regardless of downstream pressure. Cavitation occurs when the absolute pressure of the fluid equals its vapor pressure. The cavitation (formation of bubbles) restricts any increase in flow.

The Cavitating Venturi uses the liquid's vapor pressure point to limit or lock the flow. The throat of a Cavitating Venturi is sized such that the differential pressure generated from the inlet section to the throat reduces the liquid's absolute pressure to its vapor pressure point and it starts to vaporize or boil. These vapor bubbles begin to block the throat. This prevents any additional increase in flowrate.

By setting a fixed upstream pressure with a pressure regulator, the Cavitating Venturi will deliver fixed, stable, repeatable flow rates that are entirely unaffected by changes or fluctuations downstream.



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APPLICATIONS:

Cavitating venturies are widely utilized in:

- **Flow Limiters**
(Eg: used to limit the flow rate of a centrifugal pump system)
- **Mixture Ratio Controllers**
(Eg: rocket engine's oxidizer to fuel ratio control application)
- **Injectors**
(Eg: Used to Mix the Detergent and Water at a Constant Ratio)
- **Actuator Movement Equalizers**
(Eg: used in hydraulic motors and multiple actuators to provide uniform Displacement)
- **Fire extinguisher**

ADVANTAGES:

- Simple and compact construction
- Used to control the flow rate without using complex valve and measuring systems.
- Venturi has no moving parts
- Complex electronic systems are not required
- Relatively little maintenance

All materials of construction are possible. Contact us with your application, our engineers will offer a suitable venturi for you.