

SV520-55-F

Cavitating Venturi



Valcor Engineering Corporation



DESCRIPTION

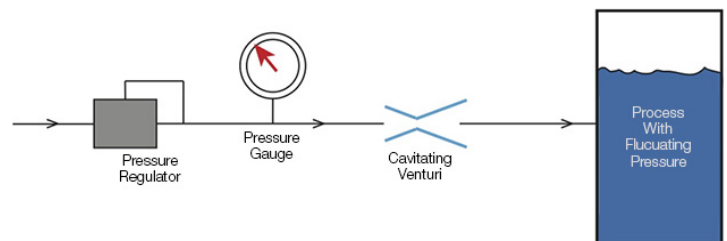
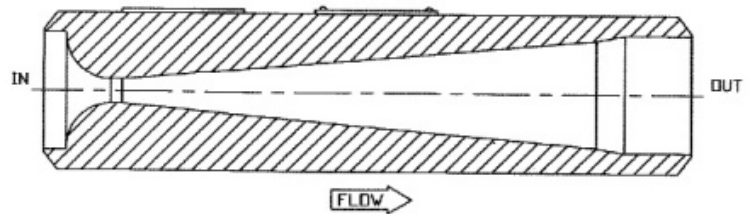
Valcor's SV520-F cavitating venturis limit the maximum mass flow of liquids in a process stream regardless of downstream pressure. They are passive devices that operate in a non cavitating mode until they their design flow rate. When the flow rate is achieved, cavitation occurs at the throat of the venturi. The cavitation (formation of bubbles) restricts any increase in flow. They effectively replace closed-loop flow control systems that employ multiple active components. The V520-F is robust and maintenance free. With no moving parts to break or wear, it will last for the life of the system in which it's installed.

APPLICATION

The SV520-F cavitating venturis are used to limit flow, or control flow to multiple outlets. They can limit the flow from pumps, preventing surge flow in the case of a downstream line rupture or component failure. Typical applications include chemical injection controllers and Auxiliary Feed Water (AFW) systems. They are also used in fire suppression systems found in nuclear power stations. In this application, an SV520-F is installed in series with each sprinkler head. If any sprinkler head is damaged, the flow is controlled which eliminates a pressure drop that would otherwise starve the remaining nozzles.

FEATURES

- One piece 300-series stainless steel bar stock body
- Custom manufactured to customer process conditions
- ASME Section III, Class 1, 2, 3 compliant
- 1/4" to 6" butt weld, flanged, or NPT porting
- Venturi size calculated per customer requirements
- Virtually maintenance free
- Mountable in any orientation



Custom designs are our specialty. Contact us today to see how we can help on your next project.

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