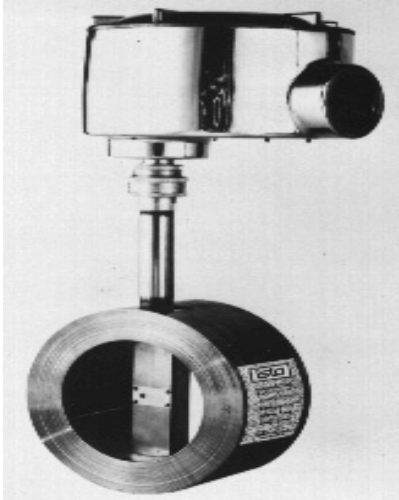


# *ISTEC Steam Meter*

"Vortex Metering System"

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## Principle of Vortex Shedding

When Liquid, Gas or Steam flows around a fixed body "Vortex Shedding", viscosity - related effects produce vortices downstream. The vortices are shed alternately from one side to the other in a regular pattern. The shedding frequency is influenced by the flow velocity and the vortex shedder shape and dimension.

The sensor can be a mechanical stainless steel disc or a ceramic piezo sensor element embedded in the vortex shedder. The pressure variation caused by the vortices can be measured electronically and converted into exact flow or volume units.

## Advantages of the ISTE Vortex Metering System

- Accuracy within 1.0% of reading
  - Low maintenance or service
  - No recalibration
  - Easy installation-wafer construction
  - All stainless steel construction
  - Rugged construction
  - Digital and/or analog output
  - Remote reading
  - Minimal pressure loss
  - Low total cost
  - Liquid, gas or steam can be measured
  - High pressure - High temperature rating
  - Repeatability better than 0.2% Rate
  - Fast response time
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