

# Flanged Vortex Plate Minimizes Installation Costs and Measures Low-Flow

Nice Instrumentation FVP 4300-SS-L-24-LT

Application Note: FVP March 2006



**Powertech Solutions in New York City & Philadelphia only specs Nice Flanged Vortex Plate flow meters for their utility customers for the measurement of steam and gases.**

## Problem

Building engineers always over engineer their systems with oversized piping. The oversized piping makes it very difficult to meter because of low flow velocities and turbulence. Powertech was faced with this challenge.

The metering challenge continued until Powertech Solutions found Nice Instrumentation Flanged Vortex Plate Inline Flow Meters. These meters are the only Vortex Plates in the world that can reduce the diameter of their internals without having to downsize the lines. This allows for the lowest vortex flow measurement in the industry while helping to straighten the flow profile for a more laminar flow.

To prove this Powertech Solutions was put to the test. The steam application above was given to Powertech Solutions and before long it was determined that no ordinary vortex flow meter would work because of the low-flow requirements during the summer months.

## Product:

- Nice FVP 4300

## Customer:

- Powertech Solutions

## Application:

- Steam Utility Measurement in New York City

## Details:

- Powertech Saved over \$4200.00 in installation costs
- Measured customers wide flow ranges from summer to winter months.
- 8 Flanged Vortex Plate 4300 meters were installed

The utility wanted to stick with a durable heavy duty meter with no moving parts. They did not want the possible maintenance issues of plugging / freezing impulse lines that occurs in differential pressure technology. The only logical choice was a Vortex Flow Meter from Nice Instrumentation Inc.

In the end, Powertech saved their customers thousands of dollars in installation costs by not having to down size the piping. Powertech also found an instrument that could measure the wide range of demand between the summer and winter months for their utility customers.

## Solution

- **The Flanged Vortex Plate 4300 was able to measure the wide application range of the utility company.**
- **The Flanged Vortex Plate 4300 reduced installation costs by \$4200.00.** (see chart)
- **Powertech found a reliable, accurate, repeatable, and heavy duty vortex meter that works.**

