



V-Cone Application Guide

Industry: Industrial Analytical & Instruments

Application: Precisely Monitor Plant Air Flow

Measurement Challenge/Difficulty: Accuracy over wide demand range.

Previous Method: Orifice Plates

Solution: 3" V-Cone in header from 3 blowers

Date Installed: April, 1995

System Diagram:

Submitted by: Peter Daneluzzi

Additional Comments: Customer had 3 blowers on line at all times using orifice plates to measure plant air which was more than was needed. The V-Cone sensed more accurately the demand in the plant and cycled the compressors so that only one or two would run and very rarely the third one. This saved the customer money in electricity consumption and maintenance requirements. Also the third compressor, being normally off-line, provided back-up for when #1 or #2 needed maintenance. The V-Cone was used in conjunction with the Honeywell DP XMTR flow recorder and digital panel meter with alarms.

Literature No.

24509-80/Rev.1.1

Industry:

Manufacturing Plant

Niche Market:

Compressor Monitoring

Process:

Plant air to production facilities

Product:

Plant Air

Fluid:

Air Flow

Viscosity:

Std.

Flow Rate:

203-2030 SCFM

Pressure:

140 PSIG

Temperature:

100 °F

Size:

3 inches

Date:

3/8/95

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