

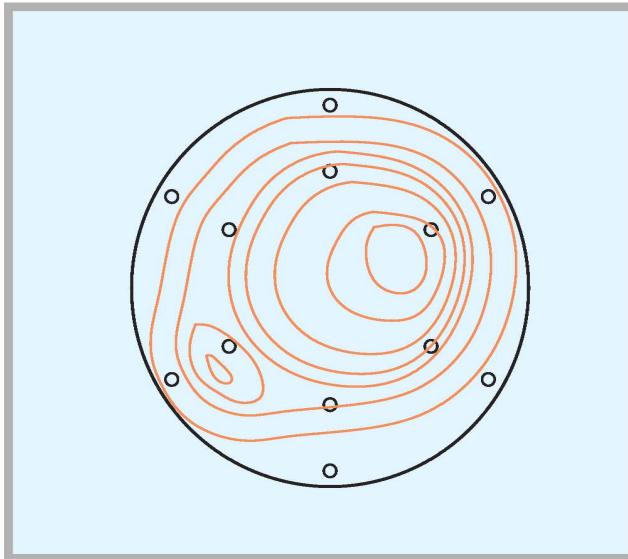
Model MPA Flowmeter®

Multi-Point Averaging Flowmeter



Introduction

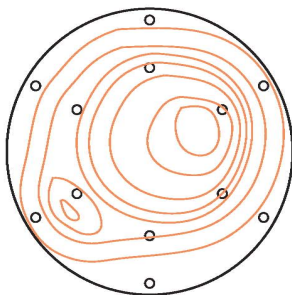
- Multi-Point Averaging (MPA) Flowmeter is a new Differential Pressure type flowmeter that can be used in place of an Averaging Pitot Tube, Orifice or Venturi flowmeter.
- Pressure sensing holes of MPA are placed by Tchebyshef method across the entire cross-section of the pipe so that highly accurate flow measurement is achieved regardless of the approaching velocity distribution.



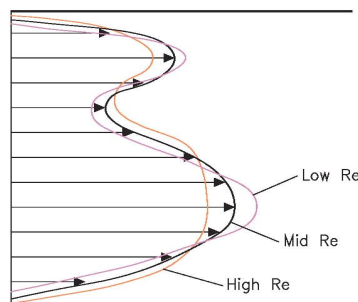
Features

- Significantly more accurate than Orifice, Venturi and Averaging Pitot Tubes.
- Accuracy of discharge coefficients (C_d) is $\pm 0.2\%$ of rate within 12:1 range.
- Can be used with clean liquid, gas or steam.
- Permanent pressure loss is much lower compared to Orifices.
- Highly resistant to seismic or mechanical vibration.
- Wafer style body makes it easy to install.

Principle



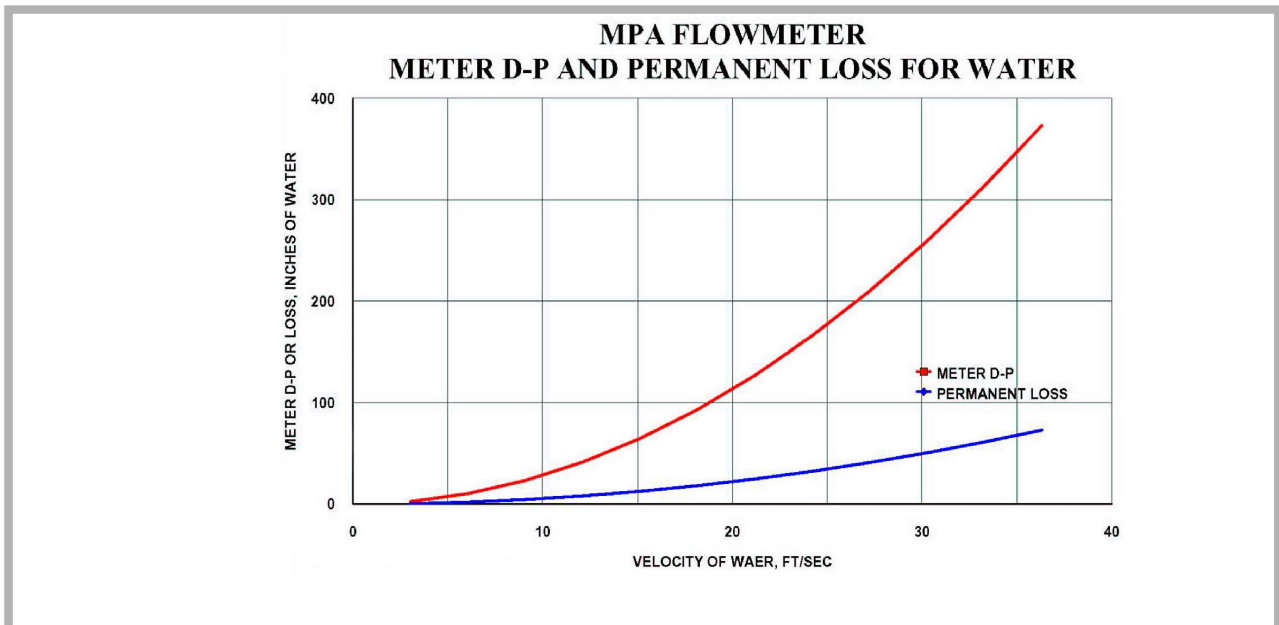
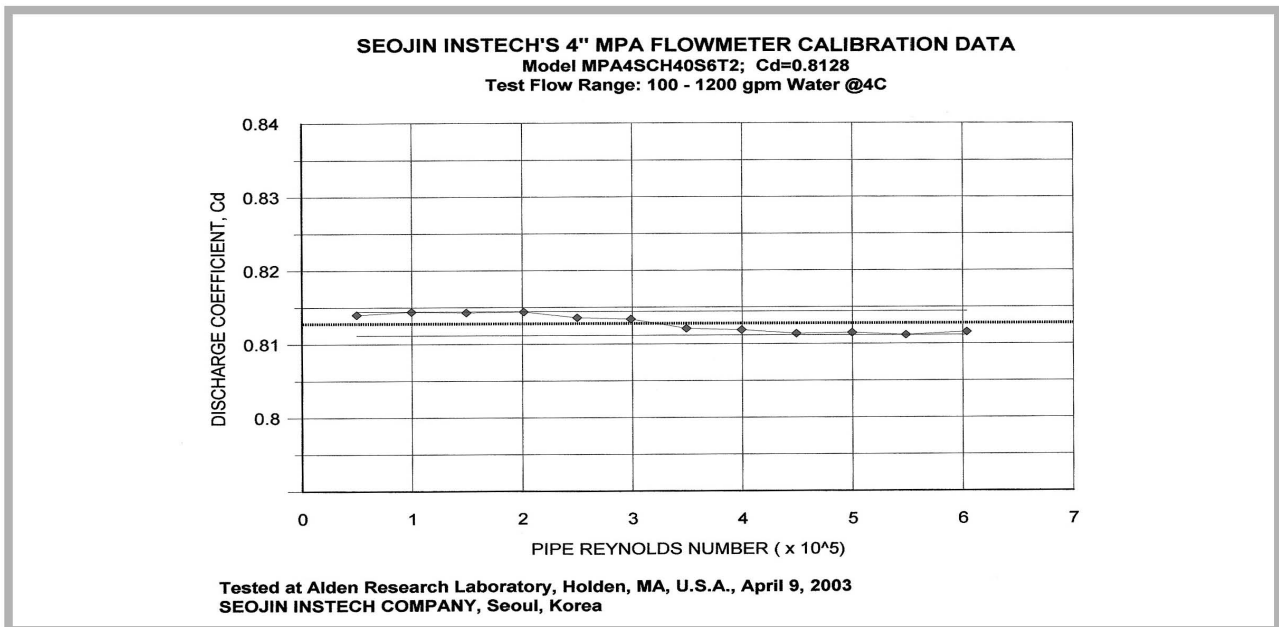
FRONT VIEW



VELOCITY PROFILE

The 12 pressure sensing holes placed widely across the entire cross-sectional area of the pipe responds correctly to any velocity distribution and naturally accommodate Reynolds Number Effect, and produce differential pressures that represent highly accurate average velocity.

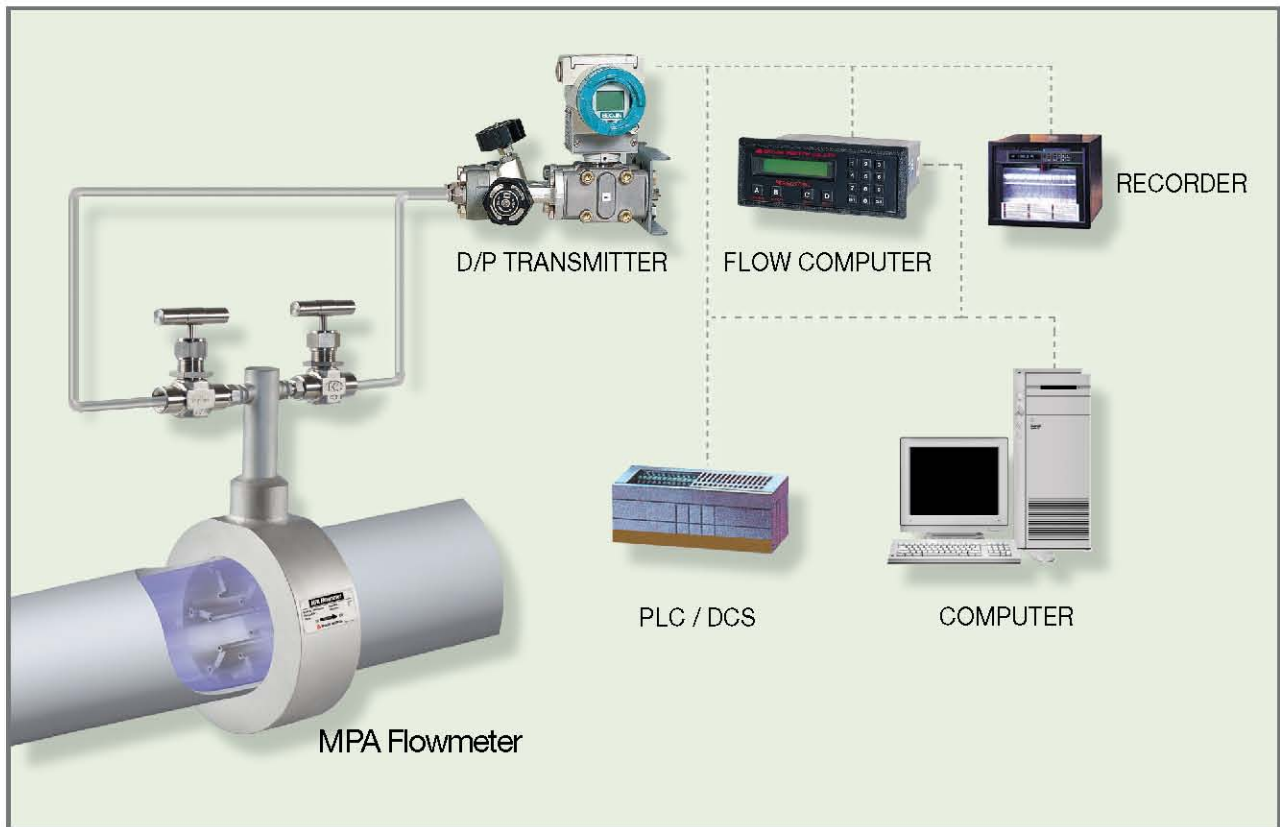
Results of 4-inch MPA Calibration at ARL



Specifications

- Model: MPA Flowmeter
- Process: Clean liquid, gas or Steam
- Application pressure limits: 3,000 psig Max.
- Application Temperature limits: 600 °C Max.
- Accuracy: ± 0.2% of rate
- Turn down Ratio : 12 : 1
- Material: SUS 316
- Minimum measurable velocity: 0.7 m/sec (for water)

Complete Flow Loops



Ordering Informations

MPA Flowmeter

Please send your order inquiry with the following information:

- Type of fluid : _____
- Max. Flow Rate : _____
- Min. Flow Rate : _____
- Range of operating pressure: _____
- Range of operating temperature: _____
- Density : _____
- Viscosity : _____
- Pipe size and Schedule: _____
- Flange type and rating: _____

PRINTED BY KOART. 2006.07 03-CG-001E. Rev:2



SEOJIN INSTECH CO., LTD.

317-18 Seongsu 2Ga, Seongdong-gu, Seoul, Korea
 Tel:(02)462-1512 Fax:(02)466-6445
<http://www.seojin.biz>

■ Specifications subject to change without notice.