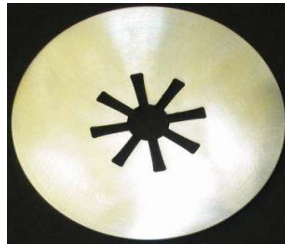


## BALANCED FLOW METERS



**High Accuracy Replacement for Orifice Plates,  
Venturies, and Other Flow Measurement Devices**

**For Process Flow Rate Measurement of Liquids,  
Gasses, Steam or Two Phase Flow**

- Accuracies of 0.2% of Reading
- Accuracy Unaffected by Entrance and Exit Lengths
- Reduced System Pressure Drop
- Reduced Vibration
- Elimination of Scaling for Most Fluids
- Direct Drop-in Replacement to an Orifice



**Lab Calibrations Retain Full Accuracy in the Field Even  
for Flow Meters Installed Close to Bends, Valves,  
Junctions and Other Disturbances**

**AWARDED 2007 NASA INVENTION OF THE YEAR**  
Originally designed for use in space shuttle main engines.



**GRAFTEL, Inc.**

870 Cambridge Drive  
(847) 364-2600 ph

Elk Grove Village, IL. 60007

(847) 364-2899 fax [www.graftel.com](http://www.graftel.com)

## BFM Advantages over Orifice Plates

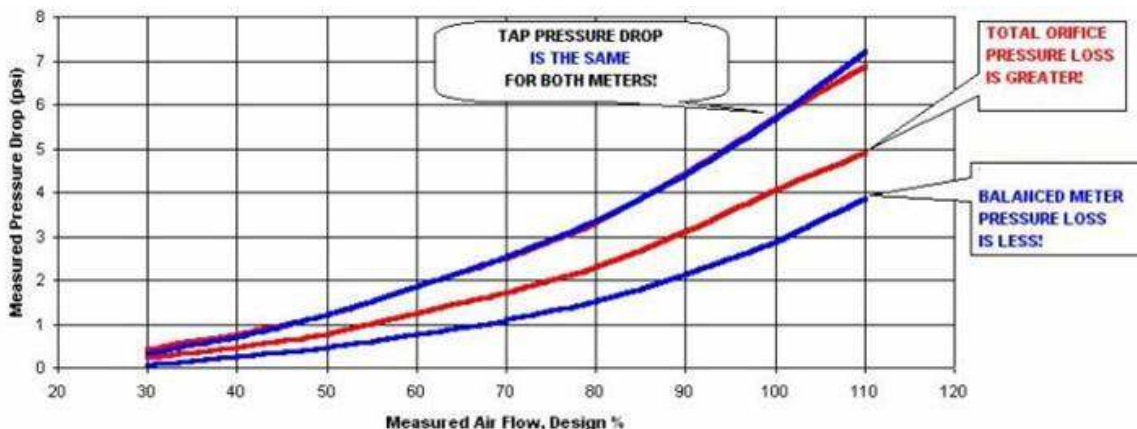
- Ten Times Improvement in Accuracy
- 100% Increase in Pressure Recovery
- No Need for Strait Pipe Runs Before or After the Plate
- Extreme Resistance to Scaling
- 15 Times Reduction in Noise Energy/Vibration
- Permanent Pressure Loss, Accuracy and Discharge Coefficient Comparable with a Venturi Meter

## Balanced Flow Meters Custom Made for Your Application

- Line Sizes 0.25" to 36 "
- Liquid Flow Rate Accuracies to 0.2% of Reading
- Gas Flow Rates Accuracies to 0.5% of Reading
- Stainless Steel, Titanium or Special Alloys as Needed to Prevent Erosion
- Measured Pressure Drops Similar to Orifice Plates and Venturies
- ISO 17025 Certified, NIST Traceable Calibrations Included
- Appendix B, 10 CFR 50 Part 21 Applicable Calibration Upon Request
- Can Be Supplied Appendix B Safety Related for Nuclear Power Applications, Recent NUPIC and NIAC Audits

## Individually Sized Plates or Full Calibrated Systems Supplied Full System May be Ordered With:

- Delta P Transmitter
- Pressure Transmitter
- Temperature Transmitter
- Analog Outputs
- Digital Outputs
- LCD or Color Touch Screen Displays



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