

Accuracy (Uncertainty) Miller Test Bench

12.08.2019

Doc: AE-232
PO: A-23456
Service: Air
Wide Range Metering

Customer: Sample Data
TAG: Sample Data
Fluid: Air
Meter: Concentric Flange Taps
Pipe Material: Carbon Steel
Pipe Diameter: 11.3380 inches

Primary Element Material: 300 Stainless Steel
Bore Diameter: 6.7161 inches

Dimensional Measurements

	Value	Unit	U.L.	L.L.	Sensitivity
Pipe:	11.3380	inches	0.0050	0.0419	-0.2227
Bore:	6.7161	inches	0.0010	0.0149	2.2227

Measurements

Differential:	64.0000	hw.68F	0.25	% fs	0.2500	0.3906	0.5000
Full Scale (URV):	100.00	hw.68F					
Pressure:	100.0000	psig.0496	0.25	% fs	0.2500	0.2500	0.5000
Full Scale (URV):	100.00	psig.0496					
Barometric Pressure:	14.6960	psia					
Temperature:	100.0000	degF	1.00	degF	1.0000	0.1787	0.5000

Gas Base Flow Rate

Density (Base):	0.0764	0.15	% act	0.0001	0.1500	-1.0000	
Density (Flowing):	0.6539	0.15	% act	0.0008	0.1500	0.5000	
Discharge Coefficient:	0.6041	Restore Defaults	0.4412	% act	0.0027	0.4412	1.0000
Gas Expansion Factor:	0.9945		0.6893	% act	0.0009	0.6893	1.0000

Flow Rate=800000. SCFH Overall Uncertainty = +/- 0.54 %
Estimated Bias Error = 0.0039 %

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These parts are the following: Part A: Determination of orifice flow characteristics and the methods of measuring the values of the dimensions and shapes. Part B: Determination of pressure loss characteristics and the methods of measuring these characteristics. Part C: Determination of the geometry of orifice plates, nozzles and Venturi tubes. Part D: Specifications and design of an instrument for testing orifice plates, nozzles and Venturi tubes. Each part is detailed, beginning with Part A and progressing through the remaining three parts. Part A and Part B are specific for each flow direction and are considered more generic than Part C and Part D. Sections of 5167 are divided between the annexes and the detailed descriptions in the main document, as follows: Annex I of 5167 covers the determination of orifice flow characteristics. It is in four parts: Part A: Determination of orifice flow characteristics and the methods of measuring these characteristics. Part B: Measurement of all the flow parameters of the orifice plate. Part C: Determination of the flow velocity at the inlet and outlet of the orifice and of the other flow parameters of the orifice plate. Part D: Determination of the pressure losses over the orifice plate and the nozzle. Annex II of 5167 covers the determination of pressure losses over orifice plates. It is in four parts: Part A: Determination of pressure losses over orifice plates. Part B: Determination of the pressure losses over orifice plates at different Reynolds numbers. Part C: Determination of the differential pressure losses over orifice plates. Part D: Determination of the pressure losses over orifice plates and flow through the orifice. Annex III of 5167 covers the determination of the geometry of orifice plates, nozzles and Venturi tubes. It is in four parts: Part A: Determination of the geometrical characteristics of the orifice plate. Part B: Determination of the geometrical characteristics of the orifice plate for flow through the throat. Part C: Determination of the geometrical characteristics of the nozzle. Part D: Determination of the geometrical characteristics of the nozzle for flow through the throat. Annex IV of 5167 covers the specifications and design of an instrument for testing orifice plates, nozzles and Venturi tubes. It is in three parts: Part A: Specification 82157476af

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