Flow Measurement Matrix

Meter Type	 Accelabar®	 Verabar®	 Vortex Meter	 Insertion Vortex
Line Size Range (Inches)	1" to 12"	≥ 1.5"	1" to 12"	≥ 0.5"
Required Straight Run of Piping - Single elbow additional straight run required for other upstream disturbances	No straight run required	7D up and 3D down	10D up and 5D down	15D up and 5D down
Permanent Pressure Loss	33 - 35% of Generated Differential	3 - 4% of Generated Differential	Inline Vortex (AVM80) = Negligible	Inline Vortex (AVM80) = Negligible
Accuracy of Flow Coefficient (% of Measured Rate)	± 0.5%	± 1.0%	± 1.0%	± 1.0%
Turndown in Flow (Dependent on application and flowing conditions)	65 : 1	10 : 1	20 : 1	20 : 1
Communication Protocol	4-20 mA, Relays, MODBUS, BACnet MSTP/IP	4-20 mA, Relays, MODBUS, BACnet MTSP/IP	4-20 mA, MODBUS, Pulse and Bluetooth	4-20 mA, MODBUS, Pulse and Bluetooth
Gas				
Liquid				
Steam				

Ideal Acceptable