



Digital Flow Meter Submittal Sheet

Every Atlas Air & Water Digital Flow Meter is individually calibrated for the pipe diameter and pipe material/thickness the DFM will be used on.

DFM has temperature compensation built-in with how the materials and sensors work and react. Two probes protrude into the compressed air/nitrogen stream. One probe is passive and is whatever temperature the compressed air/nitrogen flow is. The other probe is maintained 10° Fahrenheit warmer. Based on how much energy it takes to maintain this 10° Fahrenheit temperature difference, the DFM determines the SCFM compressed air/nitrogen flow.

The DFM is factory set to measure compressed air/nitrogen at 100 psig. If the compressed air/nitrogen pressure is atmospheric pressure or greater than 200 psig, the difference in accuracy is going to be less than 2% at those extremes (0 psig or greater than 200 psig) vs. 100 psig.

There are special calibrations for high pressure applications and for atypical pipe wall thicknesses, i.e., schedule 10 steel or type M copper.



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