

Best Rosemount Integral Orifice Flowmeter Solution for 1/2-, 1-, and 1 1/2-in. Line Sizes

MASS PROPLATE VALUE PROPOSITION

- Measuring mass flow (base volumetric) in gas and steam reduces process variability
- The Embedded Flow Software recalculates all flow coefficients and calculates density and mass flow in real-time.
- Coupled with Rosemount DP-Flow technology, the Rosemount 1195 Integral Orifice flowmeter solutions are designed to maximize performance in real-world conditions



PROPLATE VALUE PROPOSITION

- Improves accuracy and repeatability in 1/2-, 1-, and 1 1/2-in. line sizes
- Using an integral orifice flowmeter solution will eliminate the three sources of inaccuracies in small orifice line installations
- The 1195 Integral Orifice honed body reduces I.D. uncertainty
- By inserting precision-bored upstream and downstream pipe section, the velocity profile distortion due to pipe roughness is reduced, giving the most accurate solution
- Self-centering design of the 1195 Integral Orifice eliminates plate misalignment, resulting in more precise measurement

PRODUCT DESCRIPTION

The Mass ProPlate combines with the Rosemount 3095MV MultiVariable™ Mass Flow with the 1195 Integral Orifice.

The ProPlate Flowmeter combines the Rosemount 3051CD Pressure Transmitter with the 1195 Integral Orifice.

By combining integrated electronics with the inline flowmeter technology, the Mass ProPlate and ProPlate flowmeters provide the lowest total cost of any precision in-line flowmeter.

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GENERAL SPECIFICATIONS

TABLE 1. Mass ProPlate and ProPlate Specifications

	Mass ProPlate	ProPlate
Accuracy	+/- 1.1% of mass flow rate	+/- 0.85% of rate reference accuracy in liquids
Turndown	8:1	8:1
Output	4-20 mA with HART® protocol	
Line Size	1/2 to 1 1/2-in. (12.7 to 38.1 mm)	

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