

102M125 ROOTS® Meter



Dresser has been producing the 102M125 meter in one form or another for approximately 40 years. With design enhancements and continual improvements we are proud to offer the largest meter of its kind available today. There is no comparison, because there is nothing like it to compare against!

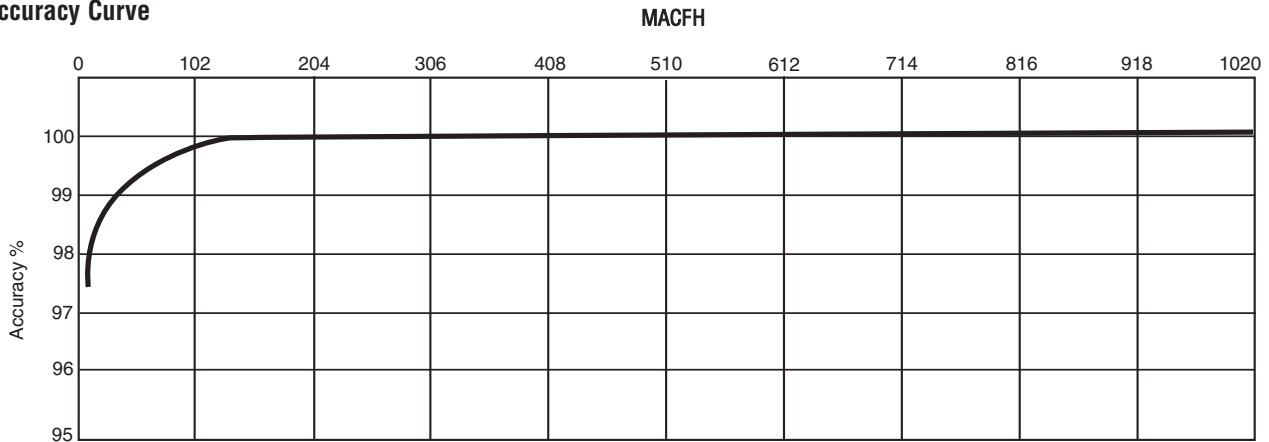
The 102M125 meter can be used in a wide array of applications such as the measurement of high volume industrial gas loads up to city gate installations with capacities as high as 965.3 MSCFH at 125 PSIG (27,334 Nm³/h at 8,6 Bar). It's available in Counter (CTR), Counter with Instrument Drive (CD), Counter with Solid State Pulser (CPWS) or Counter Transmitter (GEX) versions.

Features

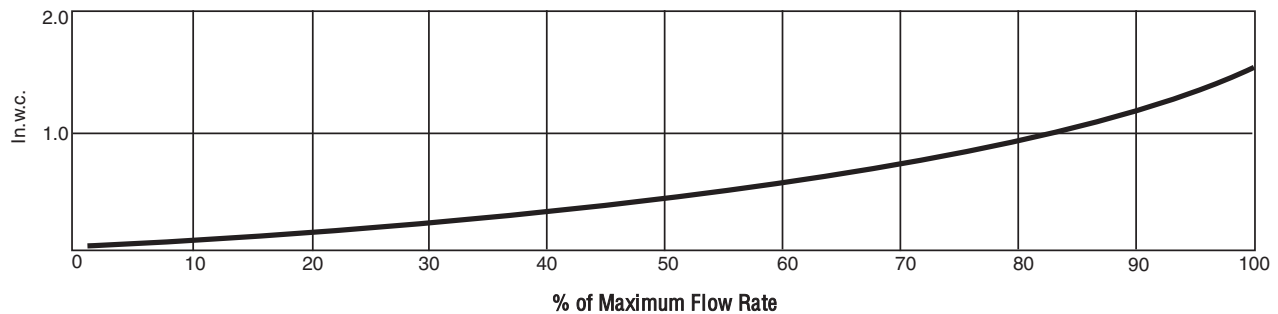
- Cast Iron Timing Gears
- (2) 1/4" Pressure Differential Taps
- Instrument Adapter Plate included on ID Meters
- (2) 1" Temperature Taps
- Paint ASA #49 Gray
- Two-Point Accuracy test on Bell or Piston Prover
- Two-Point Differential Test
- ANSI 125 lb. Flanged Connections
- Leak Tested at 125% MAOP
Static Pressure Tested at 200% MAOP
Max. Differential @ 100%
Flow is 2.25 in. w.c.

102M125: ROOTS® Meter

Accuracy Curve



Differential Curve



Specifications

Max. Working Pressure	125 PSIG	Flange to Flange	28 in.
Temp. Range	-40°F to +140°F	Nominal Pipe Size	10 inches
Differential @100% Flow	2.25 in. w.c.	Oil Capacity:	Quantity - 6 qts, 6 oz.
Start Rate	120 CFH	Length	49-1/16 inches
Stop Rate	100 CFH	Width	28 inches
Rangeability 1%	38:1	Height	29-11/16 inches
Rangeability 2%	83:1	Weight	CTR - 2390 lbs. ID - 2410 lbs.
Min CTR Increment	2 cu. ft.	Construction	Cast Iron - Cylinder, Impellers, Headplates
Gear Ratio	47.70:1	Counter	5 Digit with Reading x 100 = ACF
Displaced/Rev.	2.096 cu.		
ID Output	100 cu. ft./rev.		

Capacities

PRESSURE (PSIG)	0.25	5	10	20	30	40	50	75	100	125
CAPACITY (MSCFH)	102.0	134.3	168.9	238.2	307.4	376.7	445.9	619.0	792.1	965.3

Request detailed dimensional drawing number: 048878-000 - CTR, 050585-000 - CEX, 048879-000 - CD

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