

Four Inch 23M232 ROOTS® Meter Series B3



Dresser now offers a new version of the ROOTS® 23M rotary gas meter. Our 23M232 includes four inch flanged connections and a 232 PSIG (16 bar) maximum working pressure. This new design complements our standard six inch 23M175. With a maximum capacity of 385 MSCFH (10,895 Nm³ per hour) Dresser's new 23M is an ideal measurement solution for a wide array of applications.

The 23M232 includes new low inertia impellers for much greater rangeability compared to other available meters in this size. With its 4" flanged connections and the same flange-to-flange dimension as the 16M175, this lightweight meter allows for a compact installation, dramatically decreasing handling and installation costs.

Compact Installations

The new ROOTS® 23M232 enables users to drastically reduce meter set installation costs. The ROOTS® four inch 23M does not require flow conditioning devices, or straight pipe requirements upstream or downstream of the meter.

Oil Free Series 3 Accessory Unit

The 23M232 is available with Series 3 Counter (CTR), Counter Pulsar (CPWX), and Counter with Instrument Drive (CD) accessory units. Our permanently lubricated gear reduction unit offers reduced installation and maintenance costs throughout the life of the meter. Our unique magnetically coupled gear unit design offers flexibility for adding future accessories developed for the Series B body meter.

Performance Enhancements

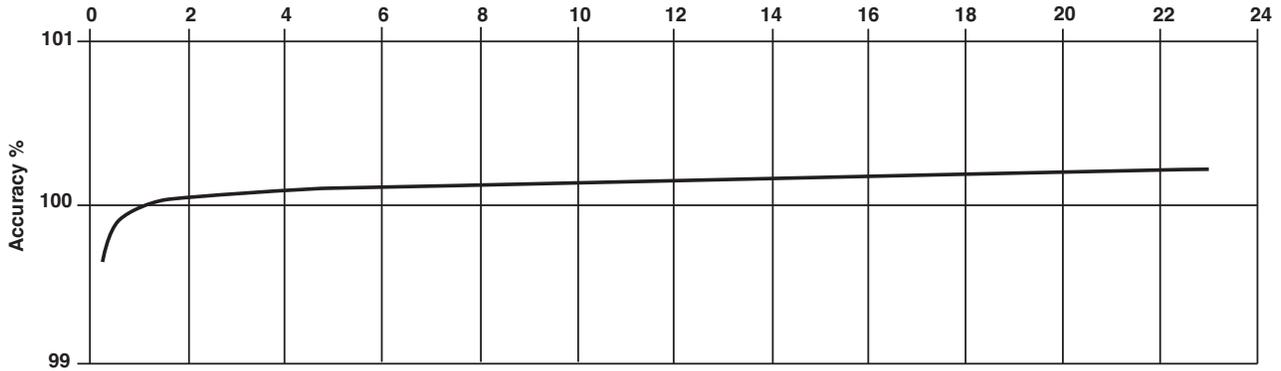
- **Dramatically improved rangeability**
169:1
- **Improved start rate**
10.33 cfh
- **Improved stop rate**
5.75 cfh
- **High MAOP**
232 psig

Physical Improvements

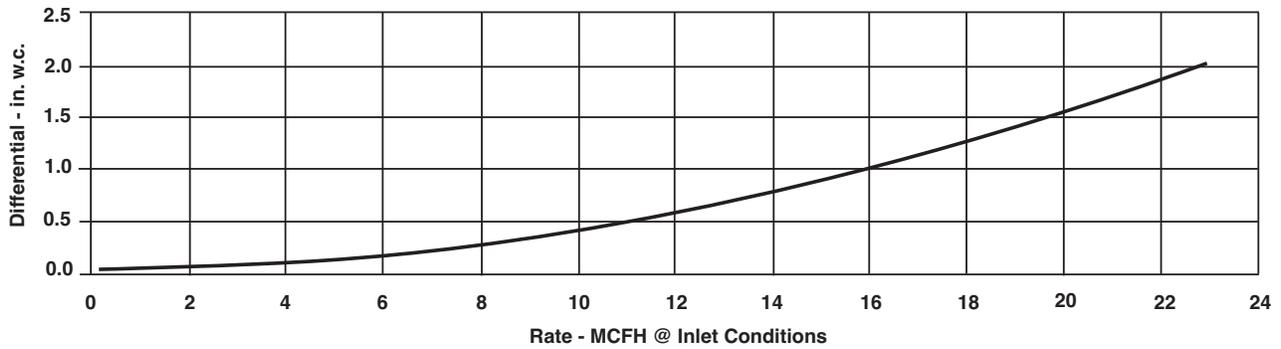
- Light weight – 103 lbs
- Same flange connection as
11M & 16M – 4 inches
- Same flange to flange dimension as
16M – 9-1/2 inches



Accuracy Curve



Differential Curve



Specifications

	Imperial	Metric		Imperial	Metric
Base Rating (Q Max.)	23,000 acfh	650 m ³ /h	Flange-to-Flange Dim.	9-1/2 in.	241 mm
Max. Operating Press.	232 psig	16 bar	Bolts per Flange - Qty.	8	8
Differential, 100% Flow	2.08 in. w.c.	5,18 mbar	Oil Capacity - Side Inlet	3.4 oz.	100,5 ml
Drive Rate CD	100 cf/rev	1,0 m ³ /rev	Oil Capacity - Top Inlet	21.8 oz.	644,7 ml
Min. Odometer Reading	2 cf	0,02 m ³	CTR Version Weight	100 lbs.	45,4 kg
Nominal Pipe Size	4 in.	100 mm	CD Version Weight	103 lbs.	46,8 kg

A complete Data Sheet is available upon request (DS: 23M232)

23M232 Series B3	Overall Length		Overall Height		Width (Flange/Flange)		Centerline to Accessory End		Request Detailed Drawing Number
Version	in.	mm	in.	mm	in.	mm	in.	mm	
CTR	29	737	9-1/2	241	9-1/2	241	16-7/8	429	D057050-000
CD	32-13/16	833	9-1/2	241	9-1/2	241	20-11/16	525	D057051-000

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