

**DRESSER**

# ROOTS® Meters & Instruments

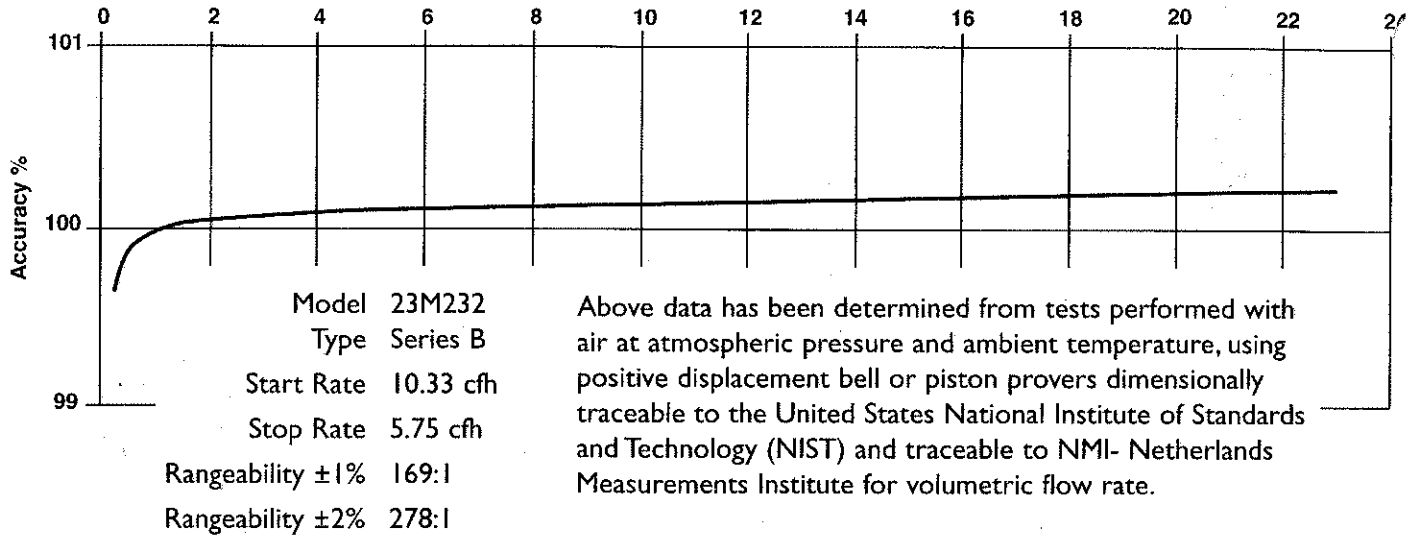
## SERIES B3: 23M232 ROOTS® Meter

	<b>UNITS Imperial</b>	<b>UNITS Metric</b>
Temperature Range	Deg. F -40 to +140	Deg. C -40 to +60
Base Rating (Q Max.)	acfh 23000	m <sup>3</sup> /h 650
Max. Operating Pressure (MAOP)	psig 232	kPa 1600
Leak Test (125% of MAOP)	psig 290	kPa 2000
Static Test (2 x MAOP)	psig 464	kPa 3200
Rangeability +/- 1%	ratio 169:1	ratio 169:1
Rangeability +/- 2%	ratio 278:1	ratio 278:1
Start Rate	cfh 10.33	m <sup>3</sup> /h 0,2926
Stop Rate	cfh 5.75	m <sup>3</sup> /h 0,1628
Flow Rate @ 0.5" w.c. Gas	cfh 10948	m <sup>3</sup> /h 310,07
Avg. Differential, 100% Flow	in. w.c. 2.08	mbar 5,18
Max. Pressurization Rate	psig/sec 5	kPa/sec 35
Max. Operating Speed	rpm 1917	rpm 1917
Gear Ratio	ratio 500:1	ratio 176,57:1
Displaced Volume/Revolution	cf 0.2	m <sup>3</sup> 0,005662
Drive Rate, CD	cf/rev 100	m <sup>3</sup> 1
Min. Odometer Reading	cf 2	m <sup>3</sup> 0,02
Odometer Turnover	yrs. 5	yrs. 5
Nominal Pipe Size	in. 4	mm 100
Flange-to-Flange	in. 9-1/2	mm 241
Flange Connection	ansi 125#Ff	ansi DN 100
Bolts per Flange	qty. 8	qty. 8
Bolt Size**	in. 5/8 x 11	in. M16
Flange Bolt Hole Depth	in. 15/16	mm 23,8
Torque: Lubricated/Non-Lub.	ft. lb. 55/60	N-m 74/81
Restricting Orifice (120%)	in. 1-15/32	mm 30,31
Oil Capacity – Side Inlet	oz. 3.4	ml 100,5
Oil Capacity – Top Inlet	oz. 21.8	ml 644,7
<i>Counter Version (CTR):</i>		
Net Weight	lbs. 100	kg 45,4
Shipping Weight	lbs. 103	kg 46,8
Carton Size	in. 34 x 13 x 12	cm 86 x 33 x 31
<i>Counter w/Inst. Drive (CD):</i>		
Net Weight	lbs. 103	kg 46,8
Shipping Weight	lbs. 106	kg 48,1
Carton Size	in. 38 x 15 x 16	cm 97 x 38 x 41

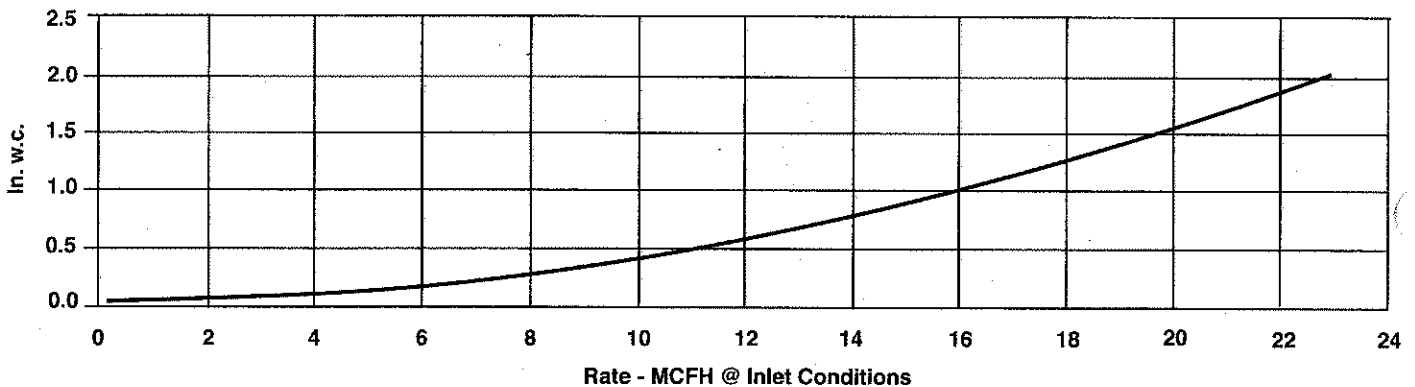
Weights & dimensions available for  
CPS, TC, TD, TPS upon request.

\*\* Bolt Length varies by application

## Accuracy Curve



## Differential Curve



23M232 Series B3	Overall Length		Overall Height		Width (Flange/Flange)		Centerline to Accessory End (CL-AU)		Request Detailed Drawing Number
	inches	mm	inches	mm	inches	mm	inches	mm	
CTR	29	737	9-1/2	241	9-1/2	241	16-7/8	429	057050-000
CD	32-13/16	833	9-1/2	241	9-1/2	241	20-11/16	525	057051-000

### To order:

Specify: 23M232 ROOTS® Meter, Series B3 and type (CTR or CD).

For CD, specify Inlet (Top or Side) and ID Rotation (CW-B or CCW-A).

Contact the factory for other available information, options, or special requests.



### Dresser Roots Meters & Instruments

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