



ROOTS® Meters & Instruments

DATA SHEET

SERIES B3: 23M232 ROOTS® Meter

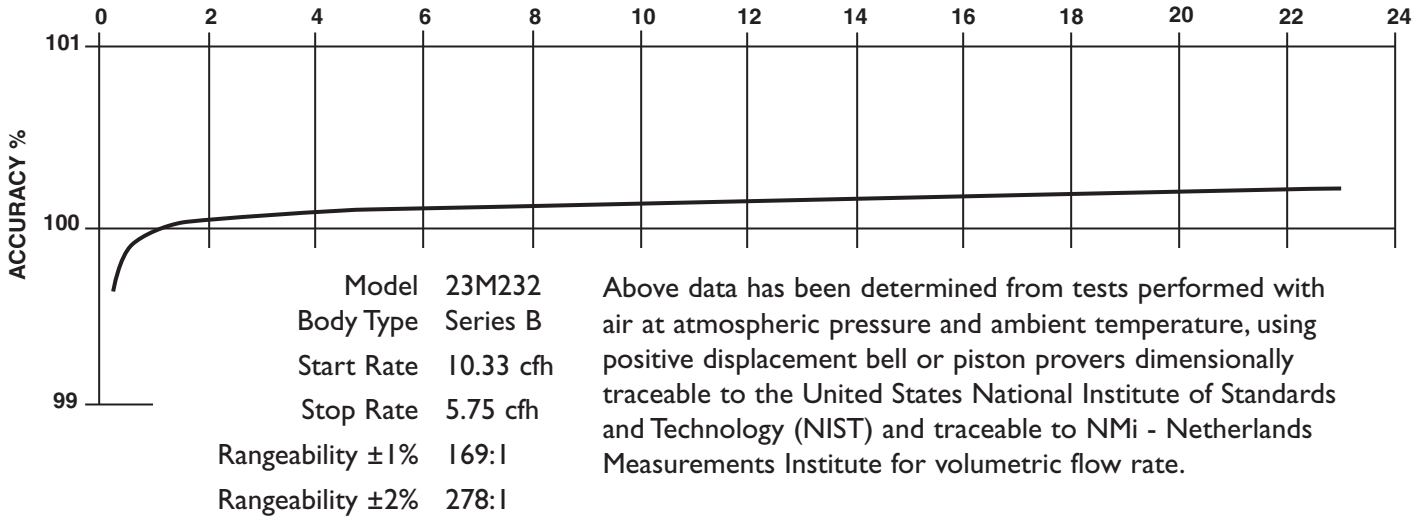
	UNITS	Imperial	UNITS	Metric
Temperature Range	deg. F	-40 to +140	deg. C	-40 to +60
Base Rating (Q Max.)	acfh	23000	m ³ /h	650
Max. Operating Pressure (MAOP)	psig	232	kPa	1600
Leak Test (125% of MAOP)	psig	290	kPa	2000
Static Test (2 x MAOP)	psig	464	kPa	3200
Rangeability +/- 1%	ratio	169:1	ratio	169:1
Rangeability +/- 2%	ratio	278:1	ratio	278:1
Start Rate	cfh	10.33	m ³ /h	0,2926
Stop Rate	cfh	5.75	m ³ /h	0,1628
Flow Rate @ 0.5" w.c., Gas	cfh	10948	m ³ /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 ³	0,005662
Drive Rate, CD	cf/rev	100	m ³ /rev	1
Min. Odometer Reading	cf	2	m ³	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	150#FF	ANSI	150#FF
Bolts per Flange	qty.	8	qty.	8
Bolt Size ¹	in.	5/8 - 11	in.	5/8 - 11
Flange Bolt Hole Depth	in.	15/16	mm	23,8
Bolt 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)²</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 with Instrument Drive (CD)²</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

NOTES:

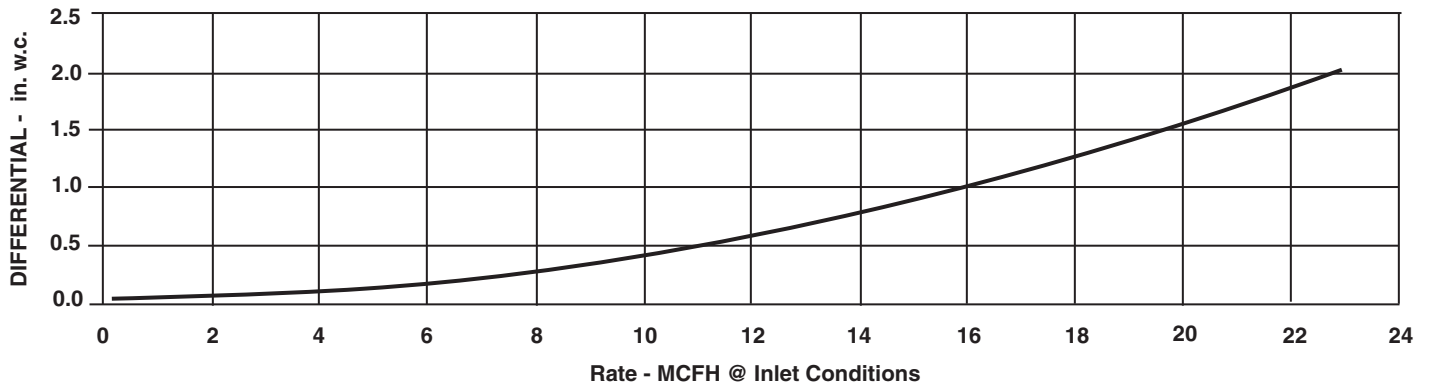
¹ Bolt Length varies by application.

² Weights and dimensions available for CPS upon request.

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	D057050-000
CD	32-13/16	833	9-1/2	241	9-1/2	241	20-11/16	525	D057051-000

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.



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