



ROOTS® Meters & Instruments

DATA SHEET

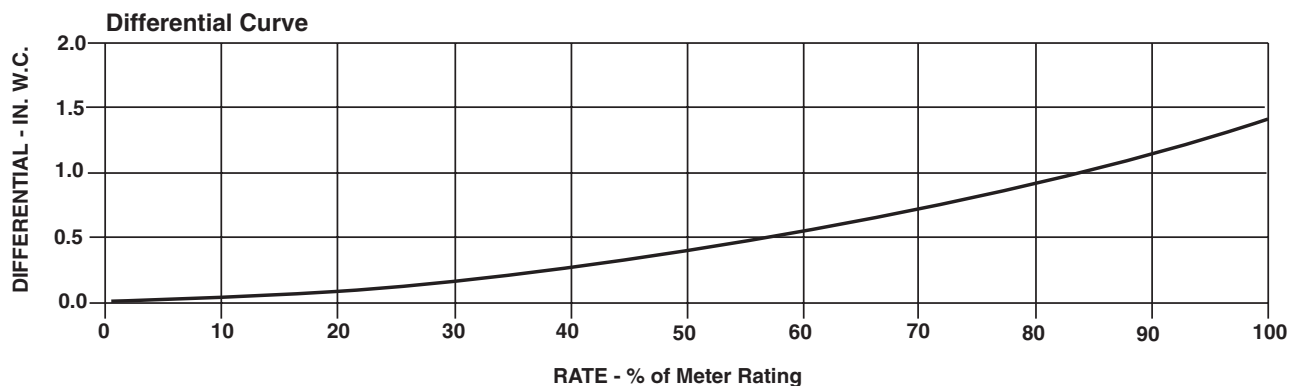
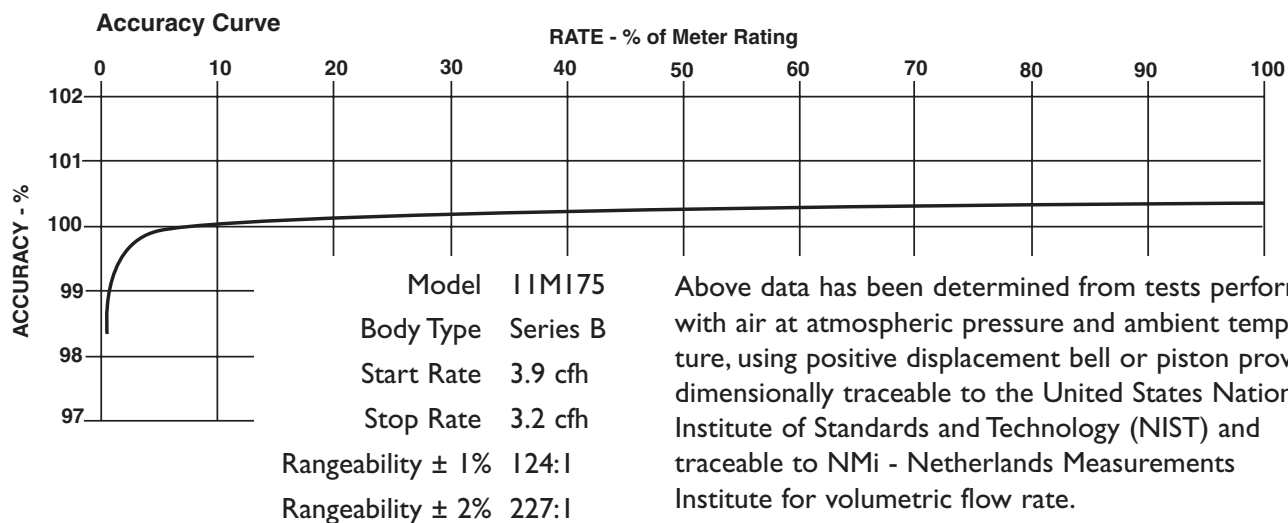
SERIES B3: 11MI75 ROOTS® Meter

	UNITS	Imperial	UNITS	Metric
Temperature Range	deg. F	-40 to +140	deg. C	-40 to +60
Base Rating (Q Max.)	acfh	11000	m ³ /h	310,0
Max. Operating Pressure (MAOP)	psig	175	kPa	1200
Leak Test (125% MAOP)	psig	219	kPa	1510
Static Test (2 x MAOP)	psig	350	kPa	2400
Rangeability +/- 1%	ratio	124:1	ratio	124:1
Rangeability +/- 2%	ratio	227:1	ratio	227:1
Start Rate	cfh	3.9	m ³ /h	0,1099
Stop Rate	cfh	3.2	m ³ /h	0,0915
Flow Rate @ 0.5" w.c., Gas	cfh	7300	m ³ /h	206,7
Avg. Differential, 100% Flow	in. w.c.	1.06	mbar	4,0
Max. Pressurization Rate	psig/sec	5	kPa/sec	35
Max. Operating Speed	rpm	1833	rpm	1833
Gear Ratio	ratio	100:1	ratio	352,9411:1
Displaced Volume/Revolution	cf	0.1	m ³	0,002832
Drive Rate, CD	cf/rev	10	m ³ /rev	1
Drive Rate, TD	cf/rev	100	m ³ /rev	10
Temp. Compensating Range (TC,TD)	deg. F	-20 to +120	deg. C	-29 to +49
Min. Odometer Reading	cf	0.2	m ³	0,02
Odometer Turnover	yrs.	1.04	yrs.	3,66
Nominal Pipe Size	in.	4	mm	100
Flange-to-Flange	in.	9-1/2	mm	241,3
Flange Connection	ANSI	125#FF	ANSI	125#FF
Bolts per Flange	qty.	8	qty.	8
Bolt Size ¹	in.	5/8 - 11	in.	5/8 - 11
Flange Bolt Hole Depth	in.	1-1/16	mm	23,8
Bolt Torque: Lubricated/Non-Lub.	ft.-lb.	55/60	N-m	74/81
Restricting Orifice (120%)	in.	1	mm	25,4
Oil Capacity – Side Inlet	oz.	3	ml	89
Oil Capacity – Top Inlet	oz.	21.9	ml	648
Counter Version (CTR) ²				
Net Weight	lbs.	60	kg	27,2
Shipping Weight	lbs.	72	kg	32,7
Carton Size	in.	34 x 13 x 12	cm	86 x 33 x 31
Counter with Instrument Drive (CD) ²				
Net Weight	lbs.	75	kg	34,0
Shipping Weight	lbs.	82	kg	37,2
Carton Size	in.	38 x 15 x 16	cm	97 x 38 x 41

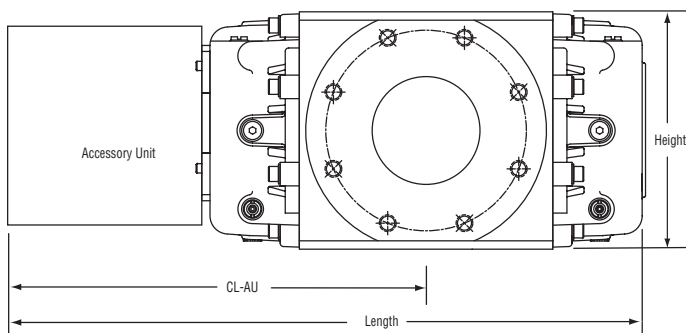
NOTES:

¹ Bolt Length varies by application.

² Weights and dimensions available for CPS, TC, TD, TPS upon request.



11M175 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 / TC	21-3/8	543	8-7/8	225	9-1/2	241	13-3/32	333	D054518-000
CD / TD	25-3/16	640	8-7/8	225	9-1/2	241	16-29/32	429	D054432-000
CPS / TPS	23-1/2	597	8-7/8	225	9-1/2	241	15-7/32	387	D054671-000
IMC/C	26-3/4	680	8-7/8	225	9-1/2	241	16-23/32	425	D056487-000
IMC/W	27-3/4	705	8-7/8	225	9-1/2	241	19-15/32	495	D056703-000



To order

Specify: Meter Series, Size and Type
 (i.e., ROOTS Meter Series B3 11M175 CD).

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

For Pulser, specify Single or Dual Connectors and
 Connector Type (MS Circular, Conduit or Cable Gland).

For more specific ordering information on the electronic
 products, request: TS:SSP, TS:IMC/C or S:IMC/W.

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

