

NDM



Product Summary



The NMT® NDM rotary gas meter is a positive displacement type gas meter where, unlike other meters, measurement accuracy is not affected by changes in specific gravity, changing pressures or fluctuating flows. With its compact size, ease of maintenance and robust performance the NDM rotary meter is the best choice for gas measurement where accuracy and dependability is required.



Features

- Ease of maintenance.
- Robust design.
- Compact size.
- Indoor & outdoor capable.
- Pulse output.
- Mounting versatility.
- Rotable index.
- 100% sealed index.

Specifications

Specification	Units	15C	3M	5M	7M	11M	16M	23M	38M
Base Qmax	ACFH	1500	3000	5000	7000	11000	16000	23000	38000
Max. Operating Pressure	PSIG	85	290						
Temperature Range	°F	-22°F to 140°F							
Turndown Ratio		80:1	160:1						
Over Range Capacity		25%							
Start Rate	CF	2.12	1.77	2.47	3.50	5.30	21.00	22.75	24.50
Stop Rate	CF	1.41	1.05	1.77	3.15	4.20	17.50	21.00	21.00
Differential 100% Flow	wc	0.80	0.81	0.89	1.10	1.58	1.82	1.82	2.04
Min. CTR Reading	CF	1	1	1	10	10	100	100	100
Nom Pipe Size	in	1.5” NPT	2	3	3	4	4	6	6
Flange to Flange Dim.	in	4.76	6.73	6.73	9.5	9.5	9.5	9.5	9.5
Bolt Size	in-UNC	N/A	5⁄8 - 11	5⁄8 - 11	5⁄8 - 11	5⁄8 - 11	5⁄8 - 11	3⁄4 - 10	3⁄4 -10
ANSI Bolt Qty/Flange		N/A	4	4	4	8	8	8	8
Bolt Torque	ft-lb	N/A	30	30	30	30	30	40	40
Meter Oil Capacity (ml)									
Vertical	mL	10	120	120	310	310	310*2	310*2	310*2
Horizontal	mL	8	25	25	70	70	70	70	70
Pulse Rate	CF	10	10	10	10	100	100	100	100
Net Weight	lb	12	22	29	60	66	103	99	123



Model Ratings

Model	15C	3M	5M	7M	11M	16M	23M	38M
Base Rating ACFH	1500	3000	5000	7000	11000	16000	23000	38000
Pressure (psig)	SCFH - 14.7 psia @ 60°F							
1	1602	3204	5340	7476	11748	17088	24565	40585
2	1704	3408	5680	7952	12497	18177	26129	43170
3	1806	3612	6020	8429	13245	19265	27694	45755
5	2010	4020	6701	9381	14741	21442	30823	50925
10	2520	5041	8401	11762	18483	26884	38646	63850
15	3031	6061	10102	14143	22224	32327	46469	76776
20	3541	7082	11803	16524	25966	37769	54293	89701
25	4051	8102	13503	18905	29707	43211	62116	102626
50	6602	13204	22007	30810	48415	70422	101231	167252
75	9153	18306	30510	42714	67122	97633	140347	231878
100	-	23408	39014	54619	85830	124844	179463	296503
150	-	33612	56020	78429	123245	179265	257694	425755
200	-	43816	73027	102238	160660	233687	335925	555007

Design

- Cartridge Measurement Mechanism.
- Twin rotor.
- Robust rotor shape.
- Rotable index.
- Meets EN12480 specifications in cubic feet index.
- Meets ATEX specifications.
- ANSI 150 flange (2" through 6").
- 1.5" NPT.

Index

- ATEX intrinsically safe.
- 100% sealed index - outdoor capable.
- UV resistant.
- Two pulse outputs plus Anti-Tamper.
- 8-digit readout - FT³.
- Rotable.

Standards

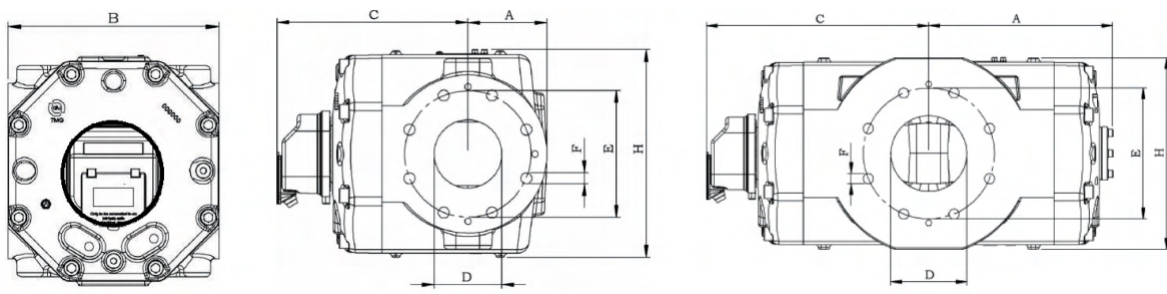
- EN12480.
- ISO9951.
- NMI.
- ANSI.

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Model Dimensions

Size	A(in)	B(in)	C(in)	D(in)	E(in)	Bolt Qty	F(mm)	H(in)	Weight (lb)
15C	2.13	4.76	6.73	1.5" NPT	N/A	N/A	N/A	4.96	12
3M	3.35	6.75	7.48	2	4.75	4	5/8	6.89	22
5M	4.06	6.75	8.74	3	6.0	4	5/8	7.25	29
7M	4.02	9.5	9.49	3	6.0	4	5/8	10.18	60
11M	5.16	9.5	16.5	4	7.5	8	5/8	10.13	66
16M	9.65	9.5	12.01	4	7.5	8	5/8	10.40	103
23M	9.65	9.5	12.01	6	9.5	8	3/4	10.40	99
38M	12.4	9.5	14.37	6	9.5	8	3/4	10.27	123



Notes

- 1. MAOP and Maximum Instantaneous flow rate required for proper sizing.
- 2. Fill meter to appropriate oil level before operating.
- 3. Meter should not exceed 25% of above capacities otherwise bearing life will degrade significantly and will void any warranties.
- 4. Gasket or “Y” strainer with 80-mesh screen recommended for ALL meters.
Warranty does not cover any debris causing damage.
- 5. Please consult with NMT® or distributor for sizing/specifications.