GROWCO INTERNATIONAL LIQUID TURBINE FLOW METERS TOTAL MEASUREMENT SOLUTIONS Bulletin GR-L-08 Rev 05

The Growco GR-L Series Liquid Turbine Flow Meters are typically used as standalone flow meters or used together with batch controllers or PLC for loading of products used in trucks loading terminals, barge loading terminals, rail cars, or related processing installations.

> TYPICAL FEATURES OF GR-L SERIES:

- Stable and reliable operations.
- Simple structure and easy maintenance.
- Special end fittings also available.

> GENERAL SPECIFICATIONS



Parameter Liquids Turbine Meter **Typical Photograph of Growco Turbine Meter** 0.11 to 7000 M³/Hr Flow Range Standard type : Linearity* +/-0.5% over stated flow range Accuracy : Premium type : Linearity* +/-0.15% over stated flow (Custody Transfer) range and limited to size 3" to 16" only (See Note*) Threaded Meters - 250 kg/cm² (4000 p.s.i.) Max Pressure Flanged meters - according to flange rating Approx. 0.28 kg/cm² (4 psi) at maximum flow Pressure Drop : (SG 1, Viscosity 1 cst) Temp. Range -29°C to 70°C (consult us for higher temperatures) **IP66** Enclosure : Field Electronics : A range of Pre-amplifiers, F/I converters and local display

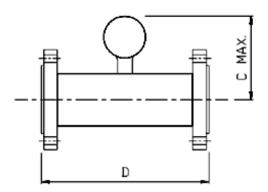
electronics is available in various certifications.

Note: * *The linearity can be improved to better than 0.1% by Linearization in Batch Controller and on site calibration over limited/required range.*

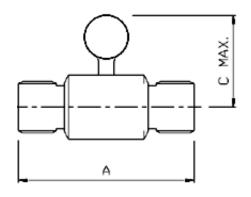
MODEL SELECTION

Model No.	Nominal Bore (mm)	Flow Range (m³/hr)	Threaded Ends Connection	Flanged Ends Connection	Approx. Dimensions (mm)		
					Α	С	D
GR-L-0.5	10	0.11 - 1.1	1/2"	1/2" / DN15	64	150	127
GR-L-0.75L	15	0.22 - 2.2	3/4"	3/4" / DN20	64	150	127
GR-L-0.75N	15	0.4 - 4	3/4"	3/4" / DN20	64	150	127
GR-L-0.75H	20	0.8 - 8	3/4"	3/4" / DN20	83	150	140
GR-L-1	25	1.6 - 16	1"	1" / DN25	88	200	152
GR-L-1.5	40	3.4 - 34	1.5"	1.5" / DN40	114	200	178
GR-L-2	50	6.8 - 68	2″	2" / DN50	132	200	197
GR-L-3	75	13.5 – 135	N/A	3" / DN80		200	254
GR-L-4	100	27 – 270	N/A	4" / DN100		300	356
GR-L-6	150	55 – 550	N/A	6" / DN150		300	368
GR-L-8	200	110 - 1100	N/A	8" / DN200		350	457
GR-L-10	250	190 - 1900	N/A	10" / DN250		350	457
GR-L-12	300	270 - 2700	N/A	12" / DN300		400	457
GR-L-16	400	400 - 4000	N/A	16" / DN400		450	610
GR-L-20	500	700 - 7000	N/A	20" / DN500		500	610

FLANGED METERS



THREADED METERS



Notes:

- 1) Threaded connections are available on request.
- 2) Custody Transfer Types are available on request.

\triangleright CAUTIONS FOR THE INSTALLATION:

- □ Welding slug, foreign particles, etc. in the pipe must be cleared up before the Flow meter is installed.
- □ Install the Flow meter correctly.
- □ The strainer must be installed at the upstream of the Flow meter with consideration of sufficient upstream and downstream lengths.
- Delta Please also follow any required local standard recommendations of pipelines installations to ensure compliance to local safety requirements.

> NOTICE WHEN ORDERING:

- Describe its application
- Specify accuracy type
- Specify its model/series or size .
- Specify working & maximum pressures .
- Specify product & maximum viscosity .
- Specify if flanged or threaded connections are required.
- . Other useful details or contact us



Typical Photograph of Growco Turbine Meter with Local Display

MEASUREMENT SOLUTIONS PROVIDER TOTAL





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