

KYTOLA® Model ML Metal Tube Flow Meter is designed for medium and large liquid flows in rough conditions.

Reliable and accurate flow measurement is based on a variable area metering principle using a free-floating float.



- Stainless steel wetted parts
- High pressure and temperature resistance
- Scales up to 2 500 – 25 000 L/h (H<sub>2</sub>O)
- ATEX version (II 2GD c TX) as option



ISO 9001 ISO 14001



## METAL TUBE FLOW METER ML

### FEATURES

- Reliable operation
- Compact and robust design
- Flange connections
- Clear scale

### TYPICAL APPLICATIONS

- Chemical and petrochemical industry
- Power plants
- General flow measurements

### OPTIONS

- Low and high flow alarms
- Threaded connections
- Stainless steel AISI 316L display housing

## PRODUCT KEY

ML   -   -   -   -   -   -  

Flow Range H <sub>2</sub> O (L/h)	Flange size	Thread size						
100 – 1 000	DN25	1"	25A					
160 – 1 600	DN25	1"	25B					
250 – 2 500	DN25	1"	25C					
400 – 4 000	DN25	1"	25D					
600 – 6 000	DN50	2"	50E					
1 000 – 10 000	DN50	2"	50F					
1 600 – 16 000	DN50	2"	50G					
2 500 – 25 000	DN50	2"	50H					
<b>Scale</b>								
H <sub>2</sub> O (L/min) at +20°C			A					
H <sub>2</sub> O (L/h) at +20°C			B					
H <sub>2</sub> O (m <sup>3</sup> /h) at +20°C			C					
<b>Connections</b>								
DIN/EN flange			0					
ANSI/ASME flange 150 lbs			1					
ANSI/ASME flange 300 lbs			2					
JIS flange 10 kg/cm <sup>2</sup>			3					
JIS flange 20 kg/cm <sup>2</sup>			4					
G female thread			5					
NPT female thread			6					
Rc female thread			7					
<b>Sensors</b>								
Without sensors			0					
Lower limit switch, NAMUR			1					
Upper limit switch, NAMUR			2					
Lower and upper limit switch, NAMUR			3					
Lower limit switch, PNP/NPN, 5–36 VDC, 2-wire (NC/NO selectable)*			4					
Upper limit switch, PNP/NPN, 5–36 VDC, 2-wire (NC/NO selectable)*			5					
Lower and upper limit switch, PNP/NPN, 5–36 VDC, 2-wire (NC/NO selectable)*			6					
<b>Display Housing</b>								
Aluminium display housing, borosilicate glass			0					
Stainless steel AISI 316 display housing, borosilicate glass			H					
<b>Breather</b>								
Without breather			0					
Breather for display housing**			Y					
<b>ATEX</b>								
Not ATEX classified			0					
ATEX classified (if alarm sensors required, only options 1, 2 and 3 allowed)			Z					

\*) 3-wire limit switches on request

\*\*) Breather in the display housing is recommended in case of wide variation of ambient or process temperature at the site of use.

## DIMENSIONS, WEIGHTS AND PRESSURE CLASSES

All weights with aluminium display housing, with stainless steel display housing add 1.6 kg.

### DIN/EN

Size DN	PN	A (mm)	B (mm)	C (mm)	ID (mm)	Weight (kg)
25	40	183	165	108	35	4.6
50	40	208	209	127	68	8.6

### ANSI/ASME 150 lbs

Size	CL	A (mm)	B (mm)	C (mm)	ID (mm)	Weight (kg)
1"	150	179	162	108	35	3.8
2"	150	201	203	127	68	7.5

### ANSI/ASME 300 lbs

Size	CL	A (mm)	B (mm)	C (mm)	ID (mm)	Weight (kg)
1"	300	187	170	108	35	4.8
2"	300	208	209	127	68	8.9

### JIS 10 kg/cm<sup>2</sup>

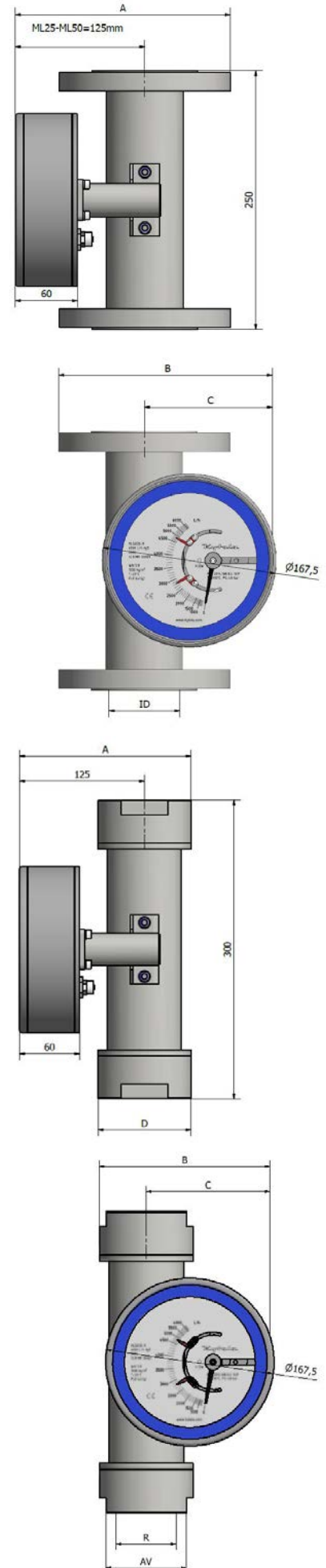
Size	K	A (mm)	B (mm)	C (mm)	ID (mm)	Weight (kg)
1"	10	188	171	108	35	4.4
2"	10	203	204	127	68	7.0

### JIS 20 kg/cm<sup>2</sup>

Size	K	A (mm)	B (mm)	C (mm)	ID (mm)	Weight (kg)
1"	20	188	171	108	35	4.4
2"	20	206	204	127	68	6.7

### G/NPT/Rc female thread

Size R	PN	A (mm)	B (mm)	C (mm)	D (mm)	AV (mm)	Weight (kg)
1"	40	155	138	108	60	50	3.7
2"	40	172	173	127	93	80	6.3



# ML

# TECHNICAL DATA

Model	ML
Flow tube	Stainless steel AISI 316L
Connectors	Stainless steel AISI 316L
Float	Stainless steel AISI 316L
Display housing	Aluminium (*stainless steel AISI 316L)
Display housing window	Borosilicate glass
Seals	Viton®
Pressure class	DN25 – DN50 flanges 40 bar ANSI/ASME flanges 150 or 300 lbs JIS flanges 10 or 20 kg/cm <sup>2</sup>
Max process temperature	+110°C without alarm sensors +100°C with NAMUR alarm sensors +80°C with PNP/NPN alarm sensors
Max ambient temperature	+80°C
Connections	DIN/EN flanges ANSI/ASME flanges JIS flanges G/NPT/Rc female threads
Accuracy	±5% F.S. (H <sub>2</sub> O at +20°C)
*) Special construction on request	

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**Kytola Instruments Oy**  
 Olli Kytölän tie 1  
 FI-40950 Muurame, Finland  
 Tel. +358 20 779 0690  
 Fax +358 14 631 419  
 E-mail [info@kytola.com](mailto:info@kytola.com)