



MT Series VA Flowmeter

- 110mm Linear Scale
- Easy to Read
- Repeatable & Stable
- Optimum Control
- Rugged Design
- Harsh Environments
- Output Options
- Switching & 4-20mA
- Liquid & Gas
- Many Plant Applications

How It Works

Flow through an orifice within the metal tube, causes a profiled float to assume an equilibrium position where the upward forces created by flow are balanced by the weight of the float. A magnet in the float is sensed by the pointer, providing a direct flow rate reading. Options include alarms and 4 to 20mA transmitter.

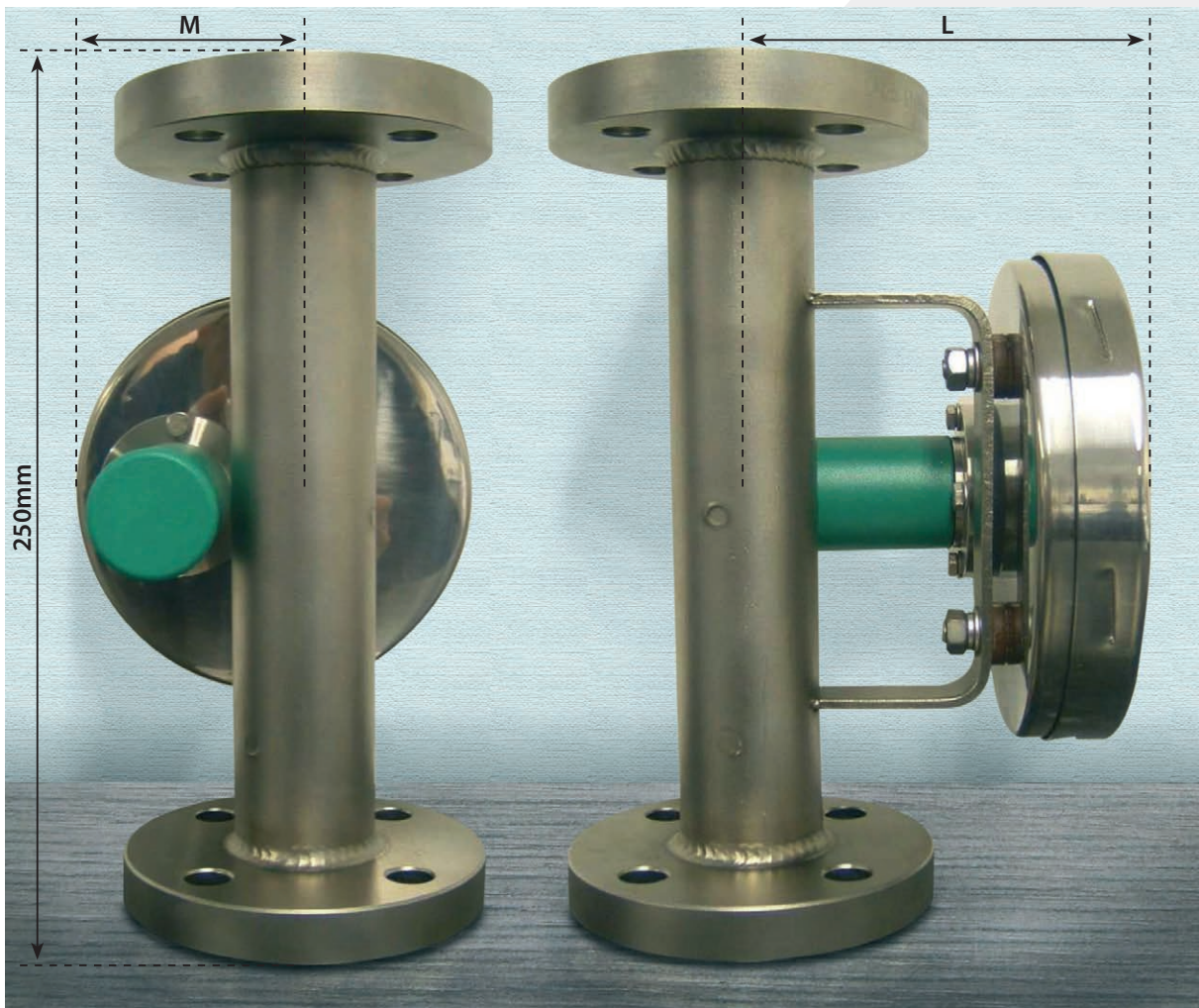
Alternative materials and connections may be available to suit application.

Please enquire for specifications or features not quoted in this standard leaflet.

Installation

The meter is installed in a vertical line with flow upwards and is normally supported by the surrounding pipework.

Size	Dimensions (mm)	
	'M'	'L'
DN15	69	86
DN25	65	96
DN50	50	110
DN80	32	125



Registered Address

ABLE Instruments & Controls Ltd
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Instrument Specification & Options

Instrument Options:

Direct Reading Indicator

Clear and stable indication over a 110mm long scale. Can be scaled to suit exact process conditions.

Flow Alarm Unit

A direct reading indicator with one or two fully adjustable set-point trips. Giving output signals for connection to NAMUR compatible interfaces.

Transmitter

Independent of the mechanical indicator, this solid-state device senses the float position directly. Providing a 4 to 20mA, 2-wire loop output proportional to flow reading. Supplied with the Direct Reading Indicator.

General Specification	
Accuracy	±2% of Full Scale
Repeatability	±0.5% of Flow
Nominal Sizes	DN15 to DN80 (½" to 3")
Flow Ranges	1.5 – 1500m ³ /h Air 50l/h – 50m ³ /h H ₂ O
Wetted Material	316 Stainless Steel
Process Connection	DIN PN16 or ANSI 150
Pressure Rating	100bar (or flange rating)*
Installation Length	250mm
D – Direct Reading Specification	
Scale Length	110mm
Housing Diameter	150mm
Turn Down Ratio	10:1
Ambient Temp	-40°C to +120°C
Fluid Temp	-80°C to +300°C
Housing	IP65 Stainless Steel
Tia – Transmitter Specification	
Output	4 to 20mA (2 wire)
Loop Powered	8 to 30 V DC 800Ω max. @ 24V
Explosion Protection (Gas & Dust)	Ex ia IIC T6 Ex II 2G Ex tD A21 T 70°C Ex II 2D
Ambient Temp	-30°C to +65°C
Fluid Temp	-40°C to +120°C
Housing	IP65 Polycarbonate (additional to indicator)
Connection	M20 Cable Gland
1A/2A – Alarm Specification	
Output	NAMUR (2 wire)
Adjustment	0 to 100% of Scale
Explosion Protection (Gas & Dust)	Ex ia IIC T6 Ex II 1G Ex iaD 20 T 108°C Ex II 1D
Ambient Temp	-25°C to +100°C
Fluid Temp	-40°C to +150°C
Housing	IP65 Coated Aluminium (replaces standard indicator)
Connection	M20x1.5

* In accordance with the European Pressure Equipment Directive 97/23/EC, stated pressure rating is for Group 2 fluids (non dangerous).

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Nominal Size (mm)	Full Scale Flow Rates (at 20°C & 1013 mbar)				Maximum Pressure Drop (kPa)
	Liquid Range Code	Water	Gas Range Code	Air (with gas damping)	
DN 15	L08	50 L/h	G08	1.5 m3/h	1.5
	L11	70 L/h	G11	2 m3/h	1.5
	L14	100 L/h	G14	3 m3/h	1.5
	L16	160 L/h	G16	4.8 m3/h	1.5
	L19	250 L/h	G19	7.5 m3/h	3.0
	L23	400 L/h	G23	12 m3/h	3.0
	L26	600 L/h	G26	18m3/h	3.5
DN 25	L00	1 m3/h	G00	30 m3/h	1.5
	L02	1.6 m3/h	G02	48 m3/h	3.0
	L04	2.5 m3/h	G04	75 m3/h	3.5
	L07	4 m3/h	G07	120 m3/h	8.0
	L11	6 m3/h	G11	180 m3/h	16.0
DN 50	L00	6 m3/h	G00	180 m3/h	3.0
	L02	10 m3/h	G02	300 m3/h	4.0
	L05	16 m3/h	G05	480 m3/h	8.0
	L08	25 m3/h	G08	750 m3/h	16.0
DN 80	L01	25 m3/h	G01	750 m3/h	14.0
	L05	50 m3/h	G05	1500 m3/h	22.0

Customised scales are produced to suit other fluids and/or operating conditions, please enquire.

Order Codes

EXAMPLE

SIZE & TYPE

MT 15 P D

DN
15
25
50
80

Connection Type
P = PN 16
A = ANSI 150
S = Screwed BSP (NPT Optional)

Output
D = Direct Reading
1A = Single Alarm
2A = Dual Alarm
Tia = 4 to 20 mA

RANGE & FLUID

L19

For air or water flowmeters, obtain Range Code from table above.

OR

Specify Units & Fluid type:
For alternative fluids or conditions, please specify nominal flow or preferred flow range, units, fluid composition and process conditions at the meter.

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