



IMT 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



INFLUX

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.

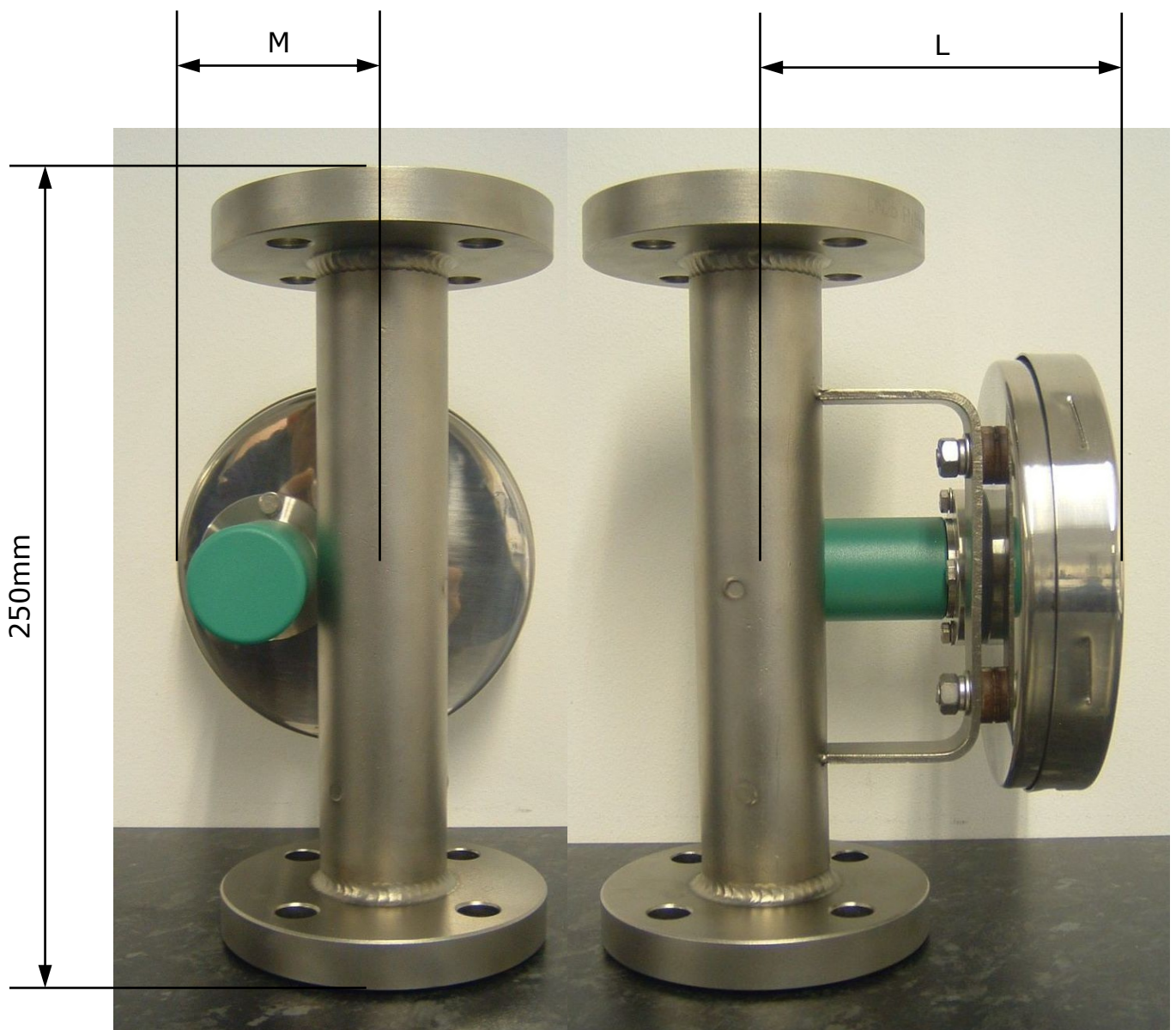
Alternative materials and connections may be available to suit application.

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.



Dimensions (mm)		
Size	'M'	'L'
DN15	78	56
DN25	87	65
DN50	101	80
DN80	115	95



Instrument Specification & Options

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 Connections	: 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 and Dust)	: Ex ia IIC T6  II 2G Ex tD A21 T 70°C  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

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.

1A/2A - Alarm Specification	
Output	: NAMUR (2 wire)
Adjustment	: 0 to 100% of Scale
Explosion Protection (Gas and Dust)	: Ex ia IIC T6  II 1G Ex iaD 20 T 108°C  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).

Standard Flow Ranges

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 m ³ /h	1.5
	L11	70 L/h	G11	2 m ³ /h	1.5
	L14	100 L/h	G14	3 m ³ /h	1.5
	L16	160 L/h	G16	4.8 m ³ /h	1.5
	L19	250 L/h	G19	7.5 m ³ /h	3.0
	L23	400 L/h	G23	12 m ³ /h	3.0
	L26	600 L/h	G26	18m ³ /h	3.5
DN 25	L00	1 m ³ /h	G00	30 m ³ /h	1.5
	L02	1.6 m ³ /h	G02	48 m ³ /h	3.0
	L04	2.5 m ³ /h	G04	75 m ³ /h	3.5
	L07	4 m ³ /h	G07	120 m ³ /h	8.0
	L11	6 m ³ /h	G11	180 m3/h	16.0
DN 50	L00	6 m ³ /h	G00	180 m ³ /h	3.0
	L02	10 m ³ /h	G02	300 m ³ /h	4.0
	L05	16 m ³ /h	G05	480 m ³ /h	8.0
	L08	25 m ³ /h	G08	750 m ³ /h	16.0
DN 80	L01	25 m ³ /h	G01	750 m ³ /h	14.0
	L05	50 m ³ /h	G05	1500 m ³ /h	22.0

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

Order Codes

SIZE & TYPE				RANGE & FLUID		
EXAMPLE	MT	15	P	D	+	L19
DN						
15						
25						
50						
80						
Connection Type						
P = PN 16						
A = ANSI 150						
Output						
D = Direct Reading						
1A = Single Alarm						
2A = Dual Alarm						
Tia = 4 to 20 mA						
						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.

For further applications or technical advice please contact:



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