



Figure 1 Mecon Variable Area Meter TM Unox

Application

The TM Unox variable area meters are used to measure the volume of transparent liquids and gases passing through closed piping. The variable area meters can also be used for flow monitoring if they are equipped with one or more switching contacts. Standard scales are available for liquids with a density of 1 kg/l (62.43 lbs/cu.ft). The scales must be recalculated for all other media depending on the physical characteristics.

The measuring accuracy corresponds to class 1.6 according to VDE/VDI 3513, page 2.

Special Features

- Product scales for liquids and gases
- Fast installation/removal of the flow tube possible without removal of the fitting
- Increased protection of users from glass breakages by additional cover with single-pane safety glass.

Design and Operation

The main components of the TM Unox variable area meters are the glass variable-area flow tube with float and the connection parts. The flow is displayed directly on the scale present on the flow tube (e.g. in l/h). The flow tube is optionally available with a percentage or 2-mm (0.079 inch) scale.

The flow is read at the position of the float's widest diameter.

Technical Data

TM Unox (Variable area flow meter)		
Liquids	min.	0.1 - 1 l/h
	max.	2.5 - 25 m ³ /h
	min.	0.0004 – 0.0044 USgpm
	max.	11 - 110 USgpm
		transparent
Air/Gases	min.	1.6 -16 l/h
	max.	40 - 400 m ³ /h
	min.	0.007 – 0.070 USgpm
	max.	176 – 1,761 USgpm
Pressure	max.	10 bar, 145 psi
Temperature	max.	150 °C, 302 °F
Accuracy		Class 1.6
Installation position		Vertical
Flow direction		Vertically upwards
Connections		G ¼ - 2
		NPT ¼ " - 2"
		DN 15 - 80
		ANSI ½" - 3"
Accessories		Switching contacts
PED 97/23/EG	Cat.	Art. 3.3 (DN15 up to DN 80; G ¼ up to G2; gas fluid gr. 2, liquids fl gr. 1) I (> DN 25; G1 ¼ up to G2, gas and liquids fl gr. 1)

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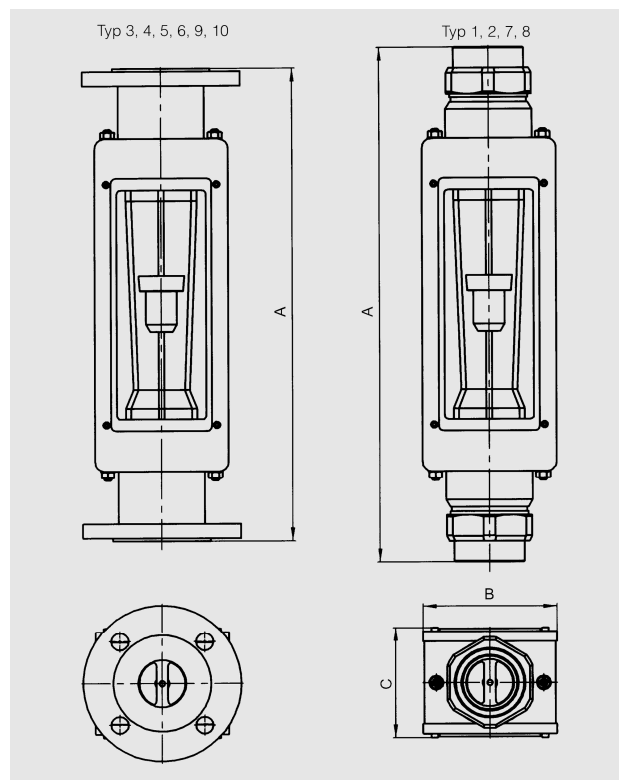


Figure 2 TM Unox

Please contact sales@tecmar.de for further information to this product.