

Model No- ZE01M



Application

The Metal Tube ZE01M series variable area

Flow meter is specially designed instrument for measuring the flow of liquid and gases.

Its robust design makes its highly suitable for use on hazardous and corrosive application as found in most industrial process.

Details Required

1. NAME OF THE FLUID
2. OPERATING TEMPERATURE
3. OPERATING PRESSURE
4. OPERATING VISCOCITY/ DENSITY
5. LINE SIZE AND CONNECTION DETAIL
6. MEASURING RANGE
7. MATERIAL OF CONSTRUCTION FOR WETTED PARTS

Working Principal

The Instrument must be mounted in a vertical pipe with fluid circulation in the upward direction. The self-guiding cylindrical float is positioned inside a tapered tube. When the flow passes through the meter the float rises to a position of equilibrium where the weight of the float is balanced by net force due to fluid pressure. The float is magnetically coupled to a pointer indicating the rate of flow on the

Features

*Choice of connections
Industry standard length
High accuracy calibration option
Robust Design
Magnetically coupled local Indicator, Transmitter option
Timely delivery on selective models.*

Description

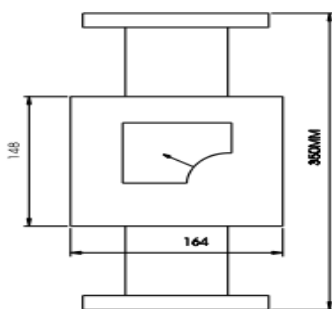
*The instrument comprises:
A body formed in stainless steel with fixed flange connection. A stainless steel or an alloy float fitted with a magnet, with guide rods end.
Two end stops in stainless uses as a guide for the float with an indicator-housing unit in aluminum alloy.*

Availability of Model No-ZE01M

Body & stops	304 Stainless steel, PTFE optional	Fluid temp.	-40°C to +200°C, high temp. versions available on request
Float	304 Stainless steel, PTFE optional	Ambient temp.:	-40°C to +80°C
Indicator housing	Aluminium, 316 st. optional	Max. operating Pressure	40 bar standard, higher on request
Finish	Polyester paint, epoxy paint optional	Connections	Flanged ANSI or BS4504
Backplate	Anodised alloy		Flange rating options, threaded ends
Connections	304 Stainless steel		Or hygienic connections refer to factory
PERFORMANCE			
Accuracy	+/-2% of full scale..		
PTFE version	+/-3% of max. flow		
Turndown ratio	1 to 10 nominally		

Ranges and Product specification

ZE01M	LIQUID		GAS		PRESSURE DROP	PTFE LINED	
Normal size	M code	Max liquid flow rates SG = 1	MG code	Flow capacity Air - 20°C Atmospheric pressure	mbar	Code MP	Max liquid flow SG = 1
15 (½")	M1	100 l/h			35		
	M2	160 l/h	MG2	5 m³/h	60	MP2	160 l/h
	M3	250 l/h	MG3	7.5 m³/h	60	MP3	250 l/h
	M4	400 l/h	MG4	12 m³/h	60	MP4	400 l/h
	M5	600 l/h	MG5	18 m³/h	65	MP5	600 l/h
	M6	1 m³/h	MG6	30 m³/h	70	MP6	1 m³/h
25 (1")	M5	600 l/h	MG5	18 m³/h	45	MP5	600 l/h
	M6	1 m³/h	MG6	30 m³/h	80	MP6	1 m³/h
	M7	1.6 m³/h	MG7	48 m³/h	55	MP7	1.6 m³/h
	M8	2.5 m³/h	MG8	75 m³/h	80	MP8	2.5 m³/h
	M9	4 m³/h	MG9	120 m³/h	85	MP9	4 m³/h
50 (2")	M8	2.5 m³/h	MG8	75 m³/h	55	MP8	2.5 m³/h
	M9	4 m³/h	MG9	120 m³/h	80	MP9	4 m³/h
	M10	6 m³/h	MG10	180 m³/h	55	MP10	6 m³/h
	M11	10 m³/h	MG11	300 m³/h	80	MP11	10 m³/h
	M12	16 m³/h	MG12	480 m³/h	95		
80 (3") or 100 (4")	M13	25 m³/h	MG13	750 m³/h	130		
	M11	10 m³/h	MG11	300 m³/h	60	MP10	6 m³/h
	M12	16 m³/h	MG12	480 m³/h	90	MP11	10 m³/h
	M13	25 m³/h	MG13	750 m³/h	60	MP12	16 m³/h
	M14	40 m³/h	MG14	1000 m³/h	125	MP13	25 m³/h
100 (4")	M15	50 m³/h	MG15	1500 m³/h	140		
	M16	60 m³/h	MG16	1800 m³/h	165		
	M17	80 m³/h	MG17	2400 m³/h	220		



Overall Dimension

The length and other needed dimension are standard as shown in figure. For any other information refer to factory.