

This Flow meter will Provide you with a highly accurate and economical Way of measuring liquid over the range 1 to 2150 liter/min

Application

This range of flow meters is used for liquids such as water, light oils, solvents and low viscosity chemicals. You can use them for batching, flow rate monitoring, controlling, blending and filling. The flow meter is highly accurate and often used for testing the performance of pumps, engines, valves and other flow meters.

Working Principal

Turbine meters are inferential measurement devices that measure a flow rate indirectly by using the natural kinetic energy of the flow as it passes through the angled blades of the turbine rotor. This causes the turbine to spin and as the blades pass by a close pre-positioned magnetic (Or other technology) "pick up" coil. The resulting interruption of the coils magnetic field by each blade results in a pulse being produced.. The frequency of this pulse is directly proportional to the point velocity reading it is taking. From this point velocity and cross sectional area of the pipe a rough volumetric flow rate can be calculated.

Turbine Flow meter



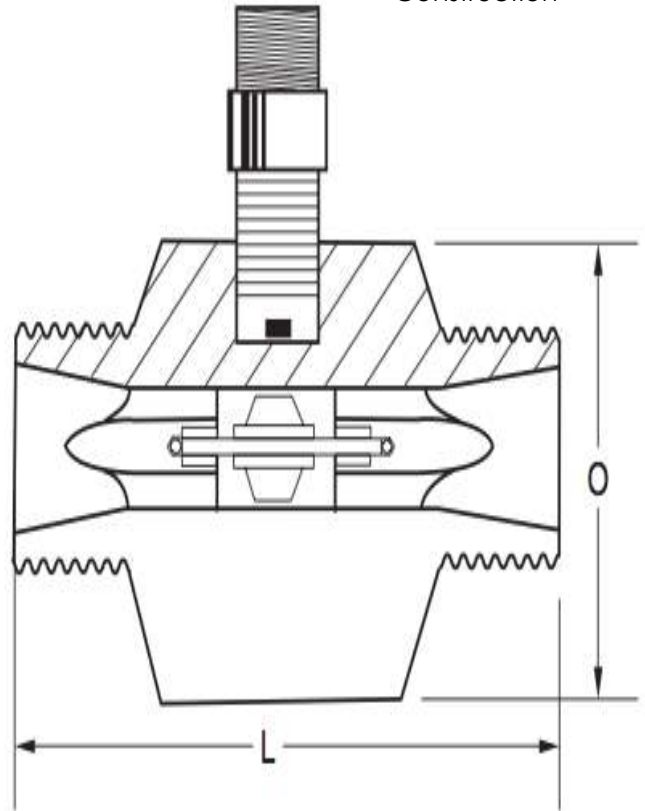
Specification

- Linearity: Better than +/- 0.5% of reading
- Repeatability: +/-0.1% of reading
- Pressure drop: 0.5 bar at maximum flow
- Working pressure: 35 bar to 340 bar
- Turn down Ratio: 10:1 to 100:1
- Response Time: < 100mSec
- Transmitter Enclosure:

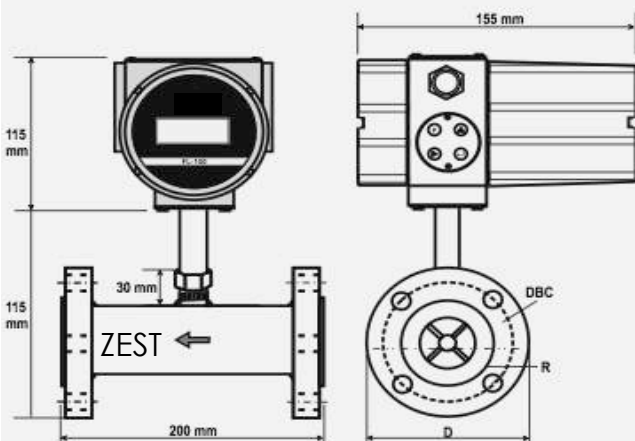
Material of construction:

- Body: 316 Stainless Steel
- Sleeve Bearing: Carbon graphite Filled
- Thrust balls: Tungsten Carbide
- Rotor : 431SS or terrarium
- Rotor Shaft: Tungsten Carbide
- Hangers : 316 Stainless Steel
- Circlips : 316 Stainless Steel
- IP-65 Housing
- Remote: Display optionally Available.
- Local Display as 8x 1 LCD
- Output: 4 to 20mA DC/Open collector output
- Size Range: 15mm to 150mm

Construction



DIMENSIONAL DETAILS



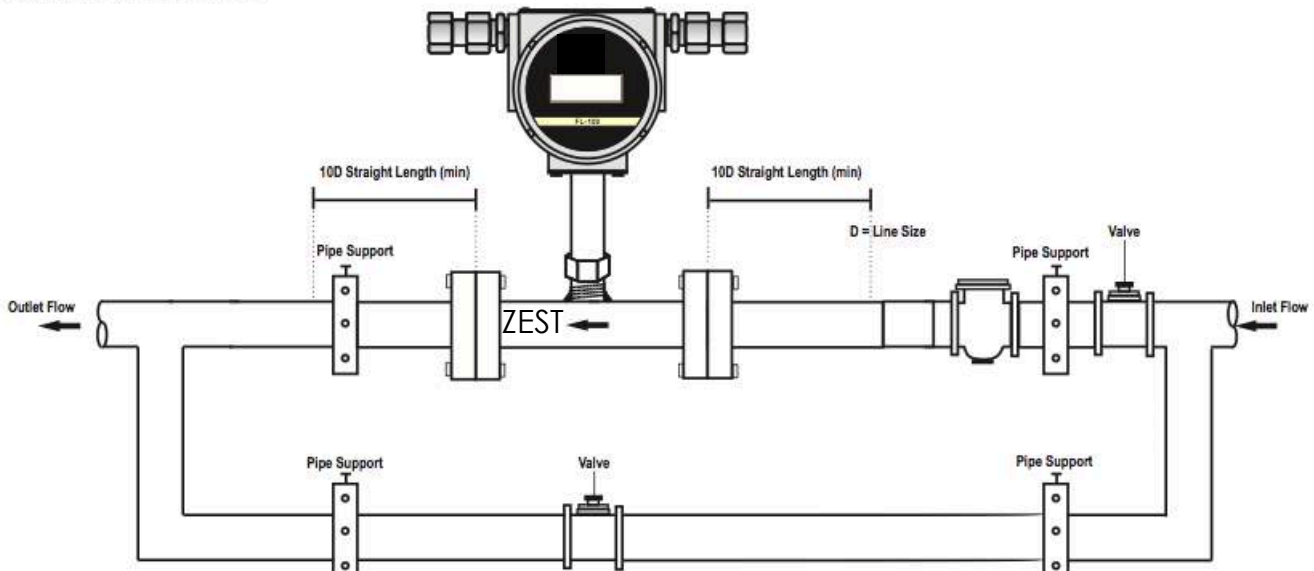
LINE SIZE SELECTOR CHART WITH RESPECT TO FLOW RANGE

Meter Size	Flow Range		Flange Details ANSI 150 (B16.5)				
	m ³ /hr	LPM	D	C	R	DBC	d
15 NB	0.4 to 4.0	6.6 to 66.6	88.9	11.2	35.1	60.5	15.8
20 NB	0.8 to 8.0	13.3 to 133.3	98.6	12.7	42.9	69.9	15.8
25 NB	1.6 to 16.0	26.6 to 266.6	108.0	14.2	50.8	79.3	15.8
40 NB	3.4 to 34.0	56.6 to 566.6	127.0	17.5	73.2	98.6	15.8
50 NB	6.8 to 68.0	113.0 to 1133.0	152.4	19.1	90.2	120.7	15.8
80 NB	13.5 to 135.0	225.0 to 2250.0	190.5	23.9	127.0	152.4	19.1
100 NB	27.0 to 270.0	450.0 to 4500.0	228.6	23.9	157.2	190.5	19.1
150 NB	55.0 to 550.0	916.0 to 9166.0	279.4	25.4	215.9	241.3	22.4

D : OD of Flange R : Dia of Raised Face No. Of Holes : 4 for ½" to 3" & 8 for 4" to 6"
C : Thickness of Flange DBC : Dia of Bolt Circle d : Size of Holes

ZEST ENGINEERING

INSTALLATION DETAILS



ORDERING INFORMATION

												L4	None
		F3	Triclover	E3	Other	G3	Other	H3	Oepn Collector			L3	15 meter
	15mm to	F2	Flanged	E2	V Jewel	G2	17.4 Ph	H2	Pulse	M2	Remote	L2	10 meter
	150mm	F1	Threaded	E1	Tungsten Sleeve	G1	SS 410	H1	4-20mA	M1	Intergal	L1	5 meter
Series	Line Size	End Connection		Bearing		Rotor		Output		Electronic		Remote Cable length	
TFZ-100B	50mm	A	F2	B	E1	C	G2	D	H1	S	M1	X	L1

Contact Our Flow Meter Measurement Specialists For Advice on your application. (+919760158775)

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