

### SALIENT FEATURES

- Simple and cost effective construction.
- Provides wide flow ranges.
- Outstanding accuracy for clean & low viscosity applications.
- Operates over wide ranges of temperature & pressure.
- Easy maintenance.
- Flame-proof, IP-65, Gr.I, IIA, IIB, CMRI certified housing for transmitter.

### DESCRIPTION

The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow. The frequency is linearly proportional to flow rate which is converted to mA signal by electronic circuitry.

### TECHNICAL SPECIFICATIONS

Media	: Liquids (Clear)
Viscosity	: 50 cp max.
Line Size	: ½ inch to 6 inch
Output	: 1) 4 - 20 mA DC - 2 Wire 2) Pulse - 30 mV P-P 3) Amplified Pulse - Open Collector Output
Accuracy	: Better than ± 1% F. S.
Repeatability	: Better than ± 1% F. S.
Response Time	: Less than 100 mSec
Temperature Range	: 0 - 150 °C max.
Pressure Range	: 0 - 30 Kg/cm <sup>2</sup> max
Pressure Drop	: Approx. 0.28 Kg/cm <sup>2</sup> at max. Flow
Temperature Drift	: Less than 0.01% of F. S. per °C change
Power Supply	: 24 V DC, External
Power Consumption	: Less than 1 VA
Turn down Range	: 10 : 1 to 100 : 10
MOC	: Body - SS 316 / Teflon, Bearing - SS 316 / Teflon, Flange - SS 316 / Teflon, Rotor - SS 410 (Optionally Teflon coated )
Process Connections:	1) Flanged 2) Threaded
Enclosure	: Flame-proof, IP-65, Gr.I, IIA, IIB, CMRI Certified
Mounting	: In-Line, Horizontal



## CODIFICATION FOR FL 102

CODE OUTPUT  
 01 : 4-20mA DC  
 02 : AMPLIFIED PULSE

CODE MOC  
 01 : SS 316  
 02 : PP  
 03 : TEFLON

CODE PROCESS CONNECTION  
 01 : FLANGED  
 02 : THREADED

Note : For proper selection of Flow Transmitter kindly send following details

- Service
- Min. / Max. Flow Ranges
- Operating Temperature & Pressure
- Line Size
- End Fittings
- Viscosity of Liquid
- Specific MOC if required

FL- 102

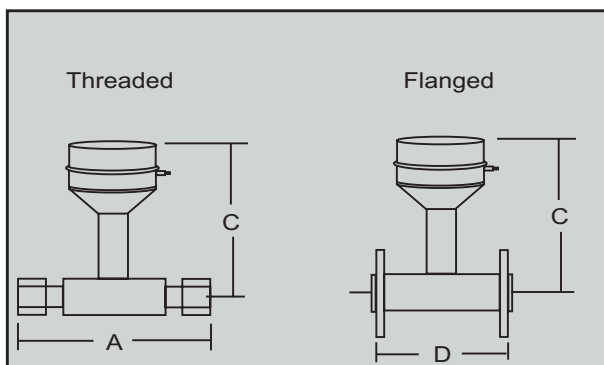
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01

SAMPLE MODEL NUMBER

## MOUNTING DETAILS



## LINE SIZE SELECTOR CHART WITH RESPECT TO FLOW RANGE

Line Size (Inch)	A (mm)	C (mm)	D (mm)	Liquid Flow Ranges	
				m <sup>3</sup> /hr	LPM
½	45	208	---	0.4 to 4.0	6.6 to 66.6
¾	60	210	---	0.8 to 8.0	13.3 to 133.3
1	75	213	75	1.6 to 16	26.6 to 266.6
1½	120	220	120	3.4 to 34	56.6 to 566.6
2	150	225	150	6.8 to 68	133 to 1133
3	225	238	225	13.5 to 135	225 to 2250
4	300	250	300	27.0 to 270	450 to 4500
6	450	275	450	55.0 to 550	916 to 9166

NOTE: To maintain linear flow it is mandatory to maintain straight line of 10D at Upstream & Downstream. Also, if any foreign particles are existing in medium it is advised to install strainer on Inlet of Flow meter.

Due to our continuous product revisions, Design, Specifications and Model Numbers are subject to change without notice.

MANUFACTURED & MARKETED BY

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