



JLC International, Inc
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Beverage Turbine Flow Meter Series 300

Low flow, chemically resistant flowmeter

The beverage flowmeter is designed specifically for the drinks dispense industries, including beer wines and spirits. They give high performance, and competitive pricing with flows ranges up to 10 lpm (2.4 gpm). They have non-metallic wetted components, which makes them the ideal choice for the metering of food-based products and even ultra-pure water. The standard inlet tubes are 3/8" push-on pipe connectors; the bearings are sapphire for long life and reliability. For OEM use, alternatives are available. The body is molded in a choice of thermo-plastics (PVDF as standard), and the 'O' ring seal is typically Viton™ but may be any elastomer.

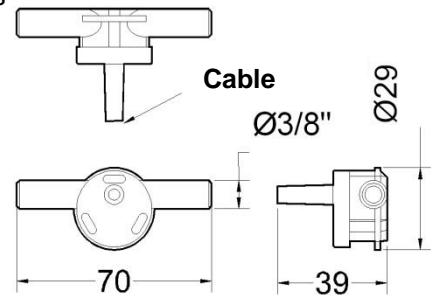


At the heart of the meter is a precision turbine that rotates freely on robust sapphire bearings and contains chemically resistant rare-earth magnets detected through the chamber wall by a Hall effect detector. The output is a stream of NPN pulses readily interfaced with most electronic display or recording devices. The combination of materials and technology ensures a long-life product with reliable operation throughout. The meter complies with Special Purpose Food Equipment and Devices NSF / ANSI 169.



Features

- Manufactured in PVDF with rare-earth magnets and sapphire bearings
- Pressure rating 10 bar (145 psi)
- Temperature rating up to 100 °C (212 °F)
- 3/8" Push on pipe connectors, John Guest style
- High accuracy and repeatability
- Pulse output NPN
- Supply 5 to 24 Vdc
- Complies with NSF / ANSI 169
- Cable lengths – 2 m (6 ft), 3 m (10 ft), 5 m (16 ft) and 10 m (33 ft)



Dimensions in mm

Flow Ranges and Pulses

Model	Range liter/min	Range gal/min	Linearity %	Frequency Hz	K-factor 1/liter	K-factor 1/gallon
010	0.6.....10.0	0.159.....2.642	± 1.0% FSD	235	1420	5375
	1.0.....10.0	0.264.....2.642	± 2.5% of Reading			

Table 1



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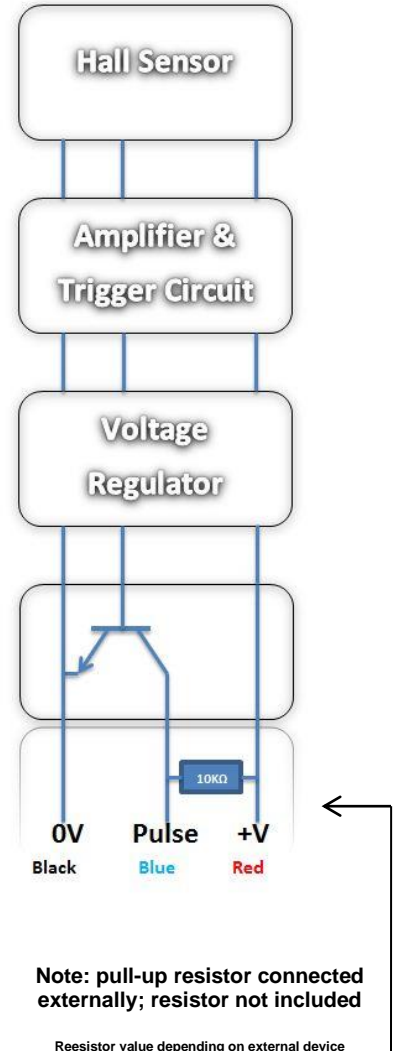
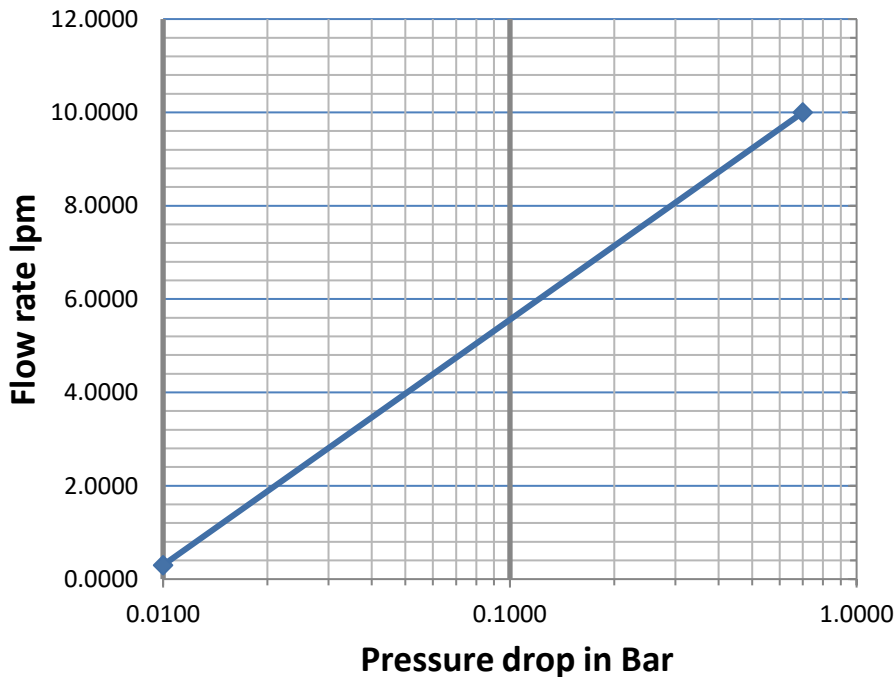
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Technical Specifications

- Linearity: see table 1
- Repeatability: $\pm 0.1\%$
- Pulse output: NPN, Hall Effect – switch current 10 mA max.
- Pressure rating: 10 bar (145 psi)
- Viscosity / particles: up to 10 cP / less than 90 micron
- Temperature rating: 0 °C (32 °F) up to 100°C (212 °F)
- Calibration: uncalibrated, spread in K-factor max. $\pm 5\%$
- Protection class: IP65 (NEMA 4X)
- Body and internals: PVDF, Sapphire, Rare-earth magnets
- Seals: Viton O ring standard
- Connections: 3/8" Push on pipe connectors, John Guest style
- Power supply: 5 – 24 Vdc; 7.5 mA typical
- Food grade: complies with NSF / ANSI 169

Pressure Drop Flow Meter Series 300



Model Numbering System

Flow range	Model number	Wetted parts	Cable length X
0.6 ... 10.0 lpm	300-010-Xm	PVDF / Viton	2m (6ft), 3 m (10ft), 5m (16 ft), 10m (33ft)