



JLC International, Inc
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www.jlcinternational.com

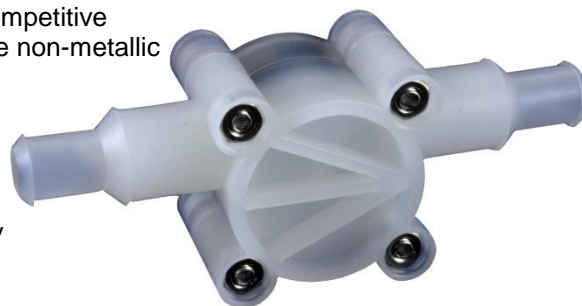
jlcusa@jlcinternational.com

Low Cost Turbine Flow Meter Series 800

Low flow, chemically resistant flowmeter

The 800 series flowmeter is designed to give high performance and competitive pricing with 6 flow ranges from 0.05 to 15 lpm (0.013 to 3.96 gpm). The non-metallic wetted components make this the ideal choice for the metering of aggressive chemicals including ultra-pure water.

The standard inlet tubes are barbed to accept two hose sizes 8mm and 12mm, although for OEM use alternatives are available. The bearings are made of sapphire for long life and reliability, the body is molded PVDF as standard and the 'O' ring seal is typically Viton™.



At the heart of the meter is a precision turbine that rotates freely on robust sapphire bearings and contains chemically resistant ceramic magnets that are detected through the chamber wall by a Hall effect detector. The output is a stream of NPN pulses that are readily interfaced with most electronic display or recording devices. This combination of materials and technology ensures a long life product with reliable operation throughout.

Features



- Manufactured in PVDF with ceramic magnets and sapphire bearings
- Measurement down to 50 ml/min (0.013 gpm)
- Pressure rating 10 bar (145 psi)
- Temperature rating up to 125 °C (257 °F)
- Barbed connections 8 and 12 mm (5/16 and 1/2 inch)
- High accuracy and repeatability
- Pulse output NPN

Flow Ranges and Pulses

Model	Range liter/min	Range gal/min	Accuracy ± % FS	Frequency Hz ¹⁾	K-factor 1/liter ¹⁾	K-factor 1/gallon ¹⁾
803	0.05.....0.50	0.013.....0.132	2.0	138	16000	60567
815	0.12.....1.50	0.032.....0.396	2.0	175	7000	26498
845	0.20.....4.50	0.053.....1.189	1.5	260	3500	13249
865	0.25.....6.50	0.066.....1.717	1.5	230	2100	7949
810	0.3.....10.0	0.079.....2.642	1.0	203	1216	4603
824	0.5.....15.0	0.132.....3.963	1.0	219	875	3312

¹⁾ a rough approximation; the actual values are provided with each individual flowmeter by means of a calibration certificate and graph.

Table 1



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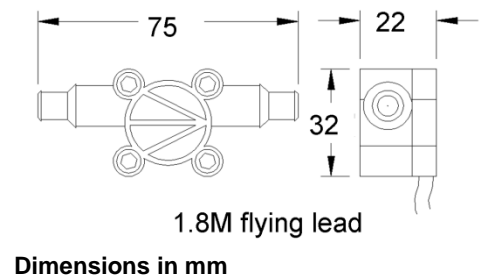
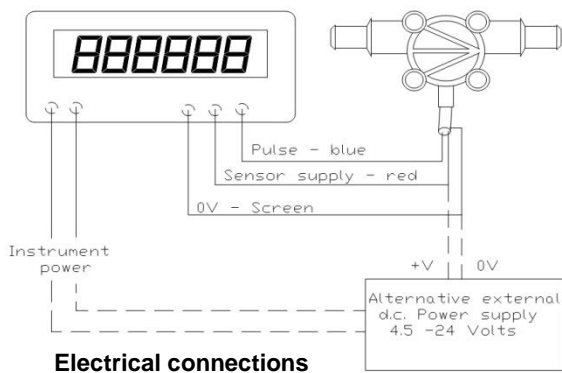
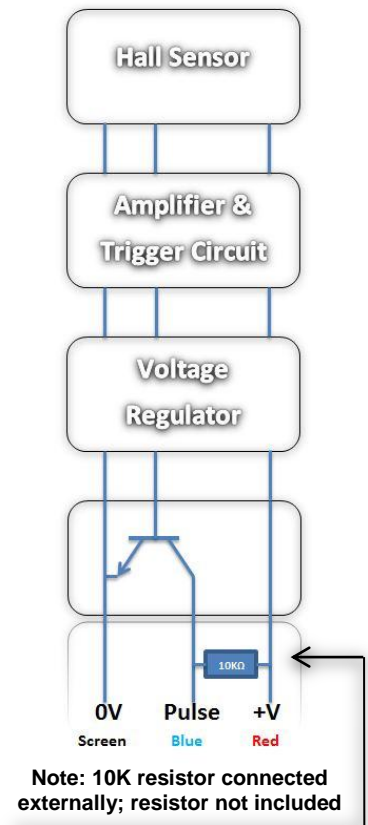
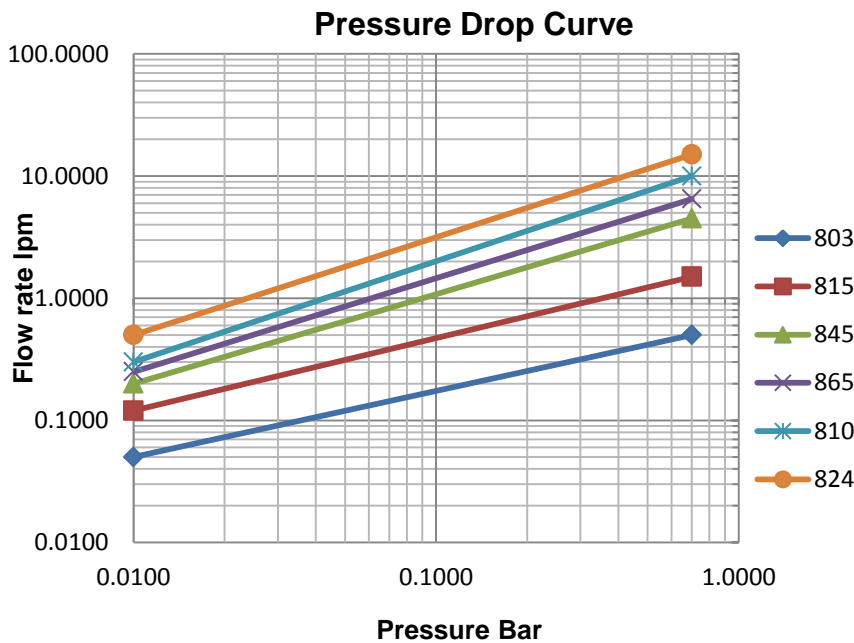
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Technical Specifications

- Linearity: see table 1
- Repeatability: $\pm 0.1\%$
- Pulse output: NPN, Hall Effect
- Pressure rating: 10 bar (145 psi)
- Viscosity / particles: up to 10 cP / less than 90 micron
- Temperature rating: $-20\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$) up to $125\text{ }^{\circ}\text{C}$ ($257\text{ }^{\circ}\text{F}$)
- Calibration: fully calibrated for water @ $20\text{ }^{\circ}\text{C}$ ($68\text{ }^{\circ}\text{F}$), incl. calibration certificate with K-factors
- Body and internals: PVDF, Sapphire, Ceramic magnets
- Seals: Viton O ring – Nitrile, EPDM and Silicon optional
- Connections: Barbed 8 and 12 mm ($5/16\text{''}$ and $1/2\text{ inch}$)
- Power supply: 4.5 – 24 Vdc





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Model Numbering System

803 - V - OP - O

<u>Range</u>	<u>Code</u>
0.05 to 0.5 l/min	803
0.12 to 1.5 l/min	815
0.2 to 4.5 l/min	845
0.25 to 6.5 l/min	865
0.3 to 10.0 l/min	810
0.5 to 15.0 l/min	824

<u>'O'-ring</u>	<u>Code</u>
Viton	V
Nitrile	N
EPDM	E
Silicon	S

<u>Calibration</u>	<u>Code</u>
Standard	O
Uncalibrated	U

e.g. 803-VOP-O: range 0.05 to 0.5 l/min, Viton seal, and 6-point traceable water calibration.