Product information

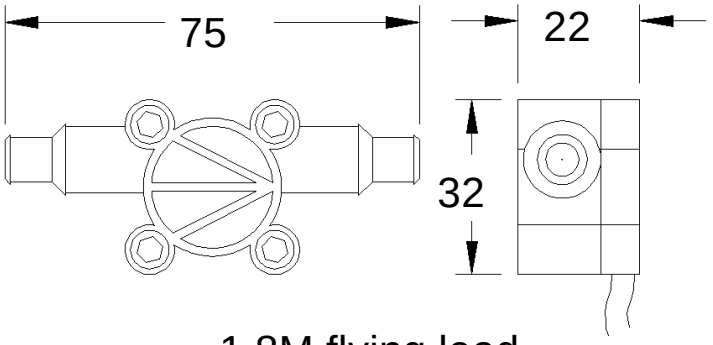
800 series data sheet

- Low cost
- PVDF or PP body
- 1- 2% FSD
- Sapphire bearings
- Hall effect sensor
- 6 Flow ranges
- Pulse output
- 10 Bar rating
- Viton seal as std.
- 8 &12 mm hose tails
- 0.1% Repeatability
- 4.5 to 24 V dc
- 125°C Max
- Flow switch option

Ideal for

- Drink dispensing
- Laboratory tests
- Cooling equipment
- Active flow alarms
- Semiconductor plant
- OEM applications

The 800 series flowmeter is designed to give high performance and competitive pricing with 6 flow ranges from 0.05 to 15 litres per minute. Its totally non-metallic wetted components makes 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 moulded PVDF as standard and the 'O' ring seal is typically Viton™.



1.8M flying lead

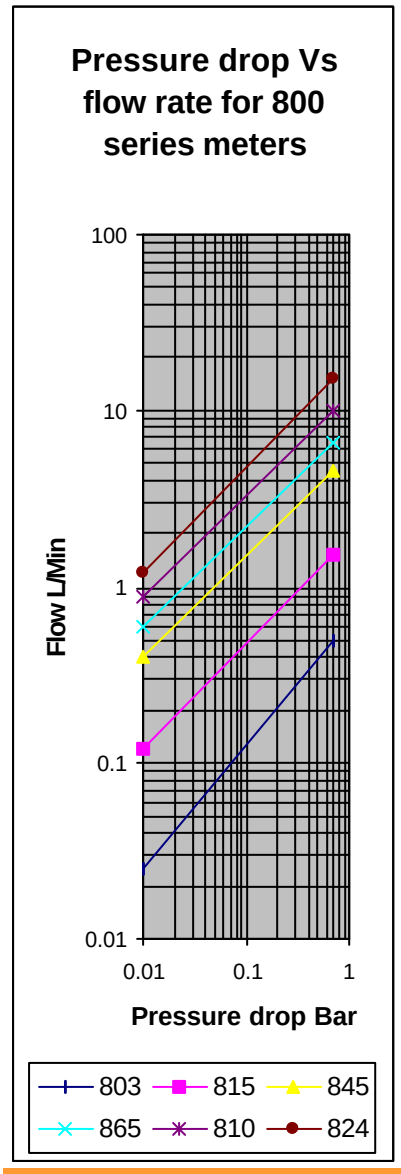
Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor
803	0 05-0 5	2.0	142	17000
815	0 12-1 5	2.0	175	7000
845	0 2-4 5	1.5	260	3500
865	0 25-6 5	1.5	230	2100
810	0 3-10	1.0	235	1420
824	0 5-15	1.0	245	980

Standard Materials of construction

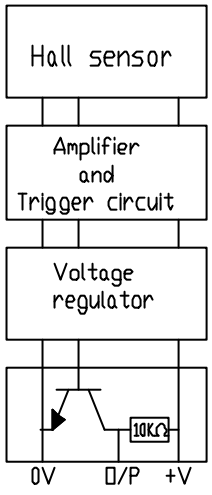
Body and cap - PVDF
'O' Ring seal - Viton
Magnets - Ceramic
Bearings - Sapphire

Flow range L/Min	'O' ring mat'l	Flow switch option	Body material	Special OEM code
803 =0 05-0 5	**V** =Viton	**O** =Standard	**P** =PVDF	**O** =Standard
815 =0 12-1 5	N =Nitrile	I =Flow switch	O =Special	U =Uncalibrated
845 =0 2-4 5	E =EPDM			
865 =0 25-6 5	S =Silicon			
810 =0.3-10				
824 =0 5-15				

*e.g. **865-VOP-O** is a flow range of 0.25 to 6.5 L/Min, viton seal , standard, PVDF bodied flowmeter with a 6 point traceable water calibration.*



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.



Sensor block diagram