

SERIES 630 AND 1000

VARIABLE AREA FLOWMETER



DATA SHEET



The Series 630 and 1000 range of Variable Area Flowmeters are ideal for measuring the instantaneous flow of virtually any process liquid or gas.

Typical applications include analytical instrumentation, gas flow control, small dosing systems, purge metering, leak detection and blending systems.

Typical industries served include; brewing, gas analysis, pharmaceutical, aerospace, engine testing, paper production, water treatment, oil and gas.

The principle of operation is simple:

The height attained by the float in its tapered flow tube is directly related to a calibrated scale with the flow being read from the centre of the ball.

This range of flowmeters offers very low flows down to 2-20cc/min (Air).

They have rear facing connections as standard and the flowmeters are supplied complete with 2 x M3 mounting screws.

SERIES 630 / 1000 FEATURES

- Direct reading of instantaneous flow rate
- Standard flow ranges
- Easy to read scale
- Frictionless, hence low head loss
- 56mm or 93mm tube lengths
- Standard or customised flow scales cover
- Easy tube removal in-situ
- Valved or non-valved versions
- Rear facing or straight-through connections
- Ni plated brass, stainless steel or nylon 6 connections
- Polycarbonate safety
- Minimal maintenance long service life
- Rear of panel mounting kit available
- Alarm versions available

[Technical Specification >](#)

FILTON PROCESS CONTROL ENGINEERING

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SERIES 630 AND 1000

Technical Specification

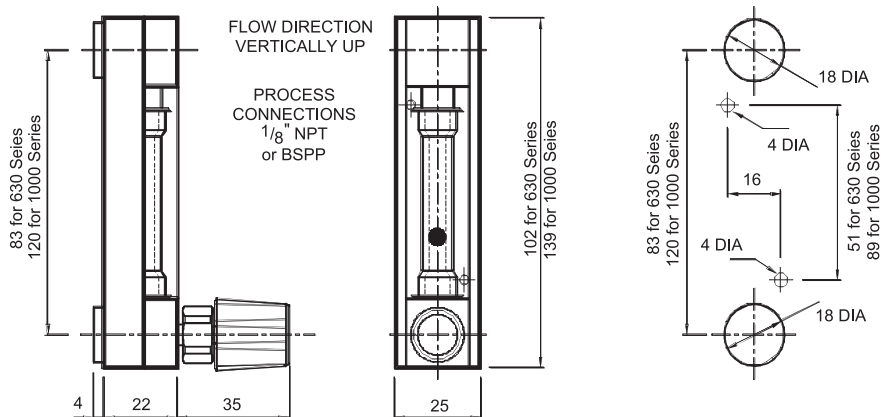


630 AND 1000 VARIABLE AREA FLOWMETERS

| | | | |
|----------------------|---|--------------------------|---|
| Chassis: | Anodised aluminium to BSEN12373/AA25 | Ball Floats: | Glass, Stainless steel, Ruby, Tungsten |
| End Blocks: | Ni plated brass Stainless steel Nylon 6 | Plumb Bob Floats: | Anodised aluminium Stainless steel |
| Process Connections: | 1/8" NPT or 1/8" BSPPF Nylon 6 | Weight: | 630 – 170 grams 1000 – 225 grams |
| Cover: | Polycarbonate | Max Working Pressure: | Gas: up to 20 bar g (non shock) Liquid: up to 20 bar g (non shock) |
| Seals: | Nitrile or Viton | Max Working Temperature: | 60°C Nitrile 100°C Viton |
| Metering Tube: | Borosilicate glass | Accuracy: | ± 5% FSD for predicted scales ± 3% FSD for calibrated scales |
| Scale: | Permanently fired (black) | | |

STANDARD RANGES

| SERIES 630 20°C/1013 mb abs | | SERIES 1000 20°C/1013 mb abs | |
|-----------------------------|-----------------|------------------------------|-------------------|
| AIR | WATER | AIR | WATER |
| 2 – 20 cc/min | – | 25 – 250 cc/min | – |
| 5 – 50 cc/min | – | 50 – 500 cc/min | – |
| 10 – 100 cc/min | 5 – 50 cc/min | 10 – 1000 cc/min | 5.0 – 50 cc/min |
| 25 – 250 cc/min | 10 – 100 cc/min | 0.25 – 2.5 L/min | 10 – 100 cc/min |
| 50 – 500 cc/min | 25 – 250 cc/min | 0.5 – 5 L/min | 25 – 250 cc/min |
| 0.1 – 1.0 L/min | 50 – 500 cc/min | 1.0 – 10 L/min | 60 – 600 cc/min |
| 0.2 – 2.5 L/min | | 2.5 – 25 L/min | 100 – 1000 cc/min |
| 0.5 – 5.0 L/min | | 4.0 – 40 L/min | |
| 1.0 – 10 L/min | | | |
| 2.0 – 20 L/min | | | |



Customised flow ranges are available. Please consult Filton Process Control Engineering to select the required flow range for the process fluid. Due to the constant development and improvement of products, information may be altered or withdrawn without notice.

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