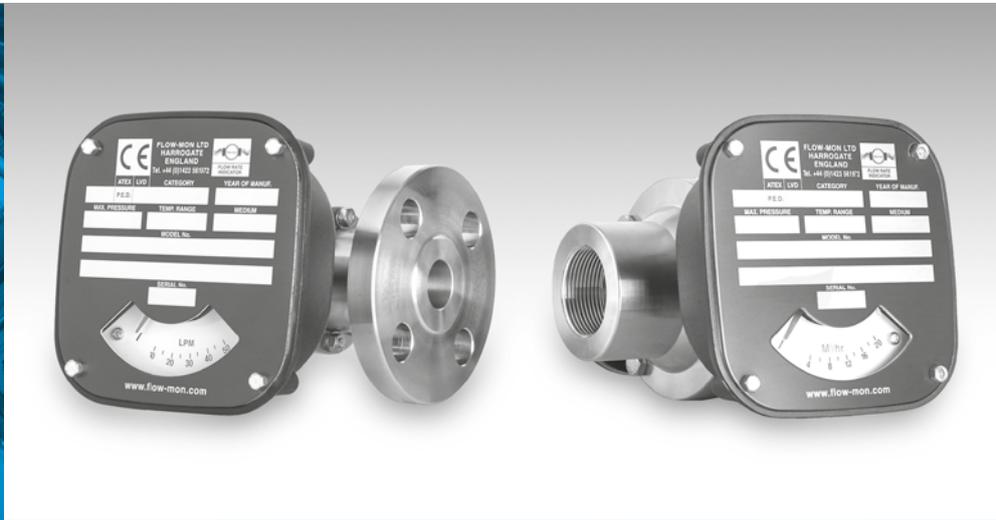




Manufacturer of Specialist Flow Instruments



- Sight Indicators
- Sight Glasses
- Flow Meters
- Flow Switches
- Sales, service and repair
- Accredited to ISO 9001
- Certified PED and ATEX

SOLUTIONS FOR  
FLOW MANAGEMENT AND  
PLANT PROTECTION



## Specialist UK manufacturer providing quality flow solutions and customer support

### About Flow-mon

Flow-Mon is a specialist manufacturer of flow indicators, switches and sight glasses producing cost effective and robust flow solutions to industry for over 40 years. Our factory in North Yorkshire is equipped with the latest CNC technology, UKAS accredited calibration equipment, welding and fabrication facilities.

Our team of skilled and experienced engineers manufacture a broad range of products from simple low cost sight indicators to large capacity flanged units for heavy industrial use. Flow-Mon can offer a solution to suit most applications within the process control industry and wider market.

We manufacture liquid and gas flow units for up to 12 inch process connections which are chemical resistant, accurate and can be fitted with several switch options, transmitters and totalisers for use in hazardous areas. Bespoke products are frequently manufactured to meet customer specifications.

### Why choose Flow-Mon?

- Cost effective solutions
- Reliability
- Short lead times
- Quality assured products
- CE marked and fully PED compliant
- ATEX certified units available
- Specialist for bespoke items
- Exceptional customer service

### Quality Assurance

ISO 9001:2015 is the internationally recognised standard for quality management. This standard is based on a number of quality management principles including a strong customer focus, the motivation and implication of top management, the process approach and continual improvement. This guarantees we continuously monitor our processes and quality management system to ensure our standards meet customer's requirements with consistent, high quality products and services.

### Ask our sales team

Call us on **0044 (0)1423 561972** to find out how our dedicated team can help.

- Full range of flow indicators
- Bespoke solutions
- Sales and supply
- Repair or refurbishment
- Advice and quotation



## Plastic Sight Flow Indicator

The Plastic Sight Flow Indicator is a robust, low-cost industrial class flow indicator that is simple to install. It can be mounted in any position from vertical to horizontal without any special connectors or plumbing.

Constructed of high impact polycarbonate plastic, this product offers excellent structural integrity and compatibility with a wide range of industrial chemicals. The transparent polycarbonate plastic body allows visual inspection of the fluid condition as well as viewing the centrifugal movement of the internal impeller.



### Features & Benefits

- 1/4 inch to 1 inch BSP/NPT connection
- Easy to install in any position
- No special piping or connections required
- Robust with good shock and vibration resistance
- Resistant to a wide range of chemicals
- Temperature - **80°C (maximum working temperature)**
- Pressure - **40 bar (maximum working pressure)**

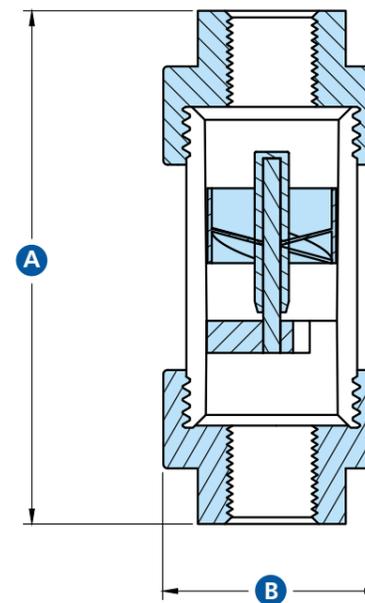
### Applications

- Water
- Oils
- Coolants
- Chemicals
- Corrosives
- Air and gases

### Materials

- Body** - Polycarbonate
- Impeller** - PPS
- Spindle** - Stainless steel 316
- Seals** - Viton
- End caps** - SS 316, Bronze, Aluminium, PVC.

### Dimensions



SPP	SS	15	BSP
<b>STYLE</b>	<b>MATERIAL</b>	<b>SIZE</b>	<b>THREAD</b>
SPP	B = Bronze SS = Stainless Steel AL = Aluminium P = PVC	8 = 1/4" 10 = 3/8" 15 = 1/2" 20 = 3/4" 25 = 1"	NPT BSP

SIZE		Dim A	Dim B	Weight	Max Flow
mm	inch	Length	Width	Kg	LPM
8	1/4"	120mm	50.8mm	0.60	40
10	3/8"	120mm	50.8mm	0.60	40
15	1/2"	127mm	50.8mm	0.60	40
20	3/4"	127mm	50.8mm	0.60	80
25	1"	127mm	50.8mm	0.60	80

## Spinner Visual Sight Flow Indicator



The Flow-Mon Spinner is a low-cost, robust flow indicator that is simple to install and will outperform other spinner instruments by a considerable margin. This spinner design can be mounted both horizontally and vertically, offering bi-directional flow indication with low pressure losses. With a tough construction, this product offers excellent structural integrity and compatibility with a wide range of applications.

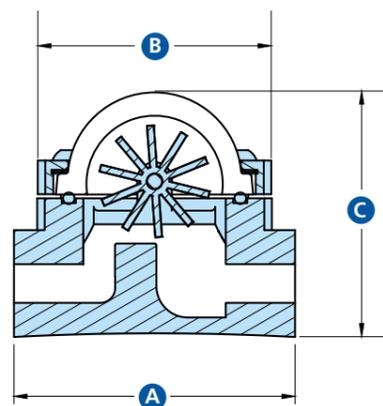
When calibrated flow indicators are not needed, this simple indicator will satisfy most requirements within pipe sizes 8mm to 40mm. When operators require a visual confirmation in their pipe work for lubrication and coolant flow, this simple Spinner can provide a cost effective solution for plant protection.

### Technical Data

<b>Body</b>	- Stainless steel 316: ASTM-A-351 2000 GR CF8M - Bronze BS EN1982 CuSn5Zn5PB5-C- GS (formerly LG2)
<b>Spinner</b>	- PPS
<b>Spindle</b>	- Stainless steel 316
<b>Glass Dome</b>	- Annealed Borosilicate
<b>'O' Ring</b>	- Viton
<b>Gasket</b>	- Klingersil (C-4400)
<b>Fasteners</b>	- Stainless steel
<b>Pressure</b>	- 16 Bar (maximum working pressure)
<b>Temperature</b>	- 200°C (maximum working temperature)
<b>Connections</b>	- BSP(F) parallel and NPT(F) taper - Other connection types available on request

### Product Application

- Plant protection
- Early warning of overheating, bearing or seal failure
- Pump and compressor protection
- Provide assurance that flow of cooling water is maintained to specialised welding equipment
- Indication of air entrainment



### Dimensions & Weight

Bore mm	Size inch	Weight kg	A' mm	B' mm	C' mm
8	1/4	0.68	76	63	65
10	3/8	0.65	76	63	65
15	1/2	0.62	76	63	65
20	3/4	1.25	89	63	83
25	1	1.20	89	63	83
32	1 1/4	2.4	115	75	100
40	1 1/2	2.4	115	75	100

### Flow Requirements

Size mm	Min Flow l/min	Max Flow l/min	Pressure Drop - 2m/sec bar
8	0.7	30	0.14
10	0.8	40	0.16
15	1.0	55	0.22
20	1.2	90	0.19
25	1.5	140	0.50
32	4	180	0.80
40	4	200	0.90

### Feature & Benefits

- 1/4 inch to 1 1/2 inch connection available
- Easy to install in any orientation
- No routine maintenance required
- Unrivalled flow and pressure drop performance
- Bi-directional flow
- Operates over a wide flow range
- Robust with good shock and vibration resistance

## Rising Ball Visual Sight Flow Indicator



The Flow-Mon Rising Ball was developed to provide industry a high standard in-line flow indicator to meet the requirements for a broad range of chemical, water, oil and gas applications. When calibrated flow indicators are not needed, the Rising Ball will satisfy most requirements within pipe sizes 8mm to 40mm.

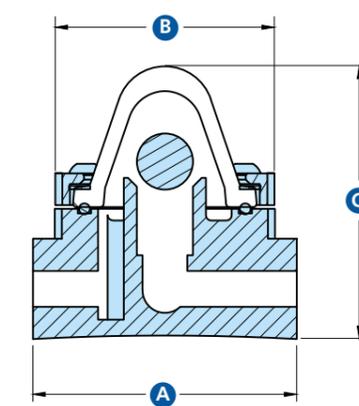
With no flow in the pipe the white PTFE Ball remains seated in the body socket. As the flow rises the ball will lift out of the socket, becoming clearly visible. The ball will continue to rise and move freely in the dome as the flow rate increases.

### Technical Data

<b>Body</b>	- Stainless steel 316: ASTM-A-351-2000 GR CF8M - Bronze BS EN1982 CuSn5Zn5PB5-C-GS (formerly LG2)
<b>Spinner</b>	- PPS
<b>Spindle</b>	- Stainless steel 316
<b>Glass Dome</b>	- Annealed Borosilicate
<b>Ball</b>	- PTFE
<b>'O' Ring</b>	- Viton
<b>Gasket</b>	- Klingersil (C-4400)
<b>Fasteners</b>	- Stainless steel
<b>Pressure</b>	- 16 Bar (maximum working pressure)
<b>Temperature</b>	- 200°C (maximum working temperature)
<b>Connections</b>	- BSP(F) parallel and NPT(F) taper - Other connection types available on request

### Product Application

- Plant protection to show lubrication or coolant flow to pumps, compressors or engines.
- Detecting changes in the colour & condition of liquids during processing.
- Pump, Compressor & Diesel Protection.
- Ensuring that flow of cooling water is maintained to specialized welding equipment.
- Indication of air entrainment.
- Showing the presence of condensate in steam return lines.
- Maintaining demineralised water rinsing essential to electronics components manufacture.



### Dimensions & Weight

Bore mm	Size inch	Weight kg	A' mm	B' mm	C' mm
8	1/4	0.72	76	63	79
10	3/8	0.69	76	63	79
15	1/2	0.65	76	63	79
20	3/4	1.30	89	63	95
25	1	1.25	89	63	95
32	1 1/4	2.50	117	75	125
40	1 1/2	2.35	117	75	125

### Flow Requirements

Size mm	Min Flow l/min	Out of Socket l/min	Max Flow l/min	Pressure Drop - 2m/sec bar
8	0.1	1.0	60	0.13
10	0.1	1.0	60	0.16
15	0.1	1.0	65	0.19
20	2.4	5.2	150	0.16
25	2.7	5.5	165	0.40
32	11.0	16.0	400	0.20
40	16.0	21.0	450	0.23

### Feature & Benefits

- 1/4 inch to 1 1/2 inch connection available
- Easy to install (horizontal plane only)
- No routine maintenance required
- Unrivalled flow and pressure drop performance
- Robust with good shock and vibration resistance
- Resistant to a wide range of chemicals
- Can be used for condensate

# Double Window – Spout, Flap & Spinner Visual Sight Flow Indicator

## Product Description

The Flow-Mon Double Window Sight Flow Indicators are designed to provide the means of visual inspection for process operations and plant protection. The straight through windows allow the operator to view immediate flow and to monitor the colour and condition of pipeline applications.

The plain spout enables visual inspection only while the flap variant with its' graduated scale provides an indication of flow rate and repeatability of valve positioning. This variant is also available with a sprung flap to manage approximate flow that can be increased up to three times. It is an ideal solution for use in vertical lines where gravity prevents the use of an un-tensioned flap.

A spinner variant equipped with an 8 blade PTFE spinner and stainless steel internals is ideally suited for chemical applications providing excellent corrosion resistance. All designs can be mounted in any pipeline orientation capable of managing a wide flow range.

These high quality, robust units are designed for a broad range of industrial applications with working temperatures up to 250°C and working pressures up to 16 bar for the standard range and 40 bar for the high pressure range.



## Technical Data

- Body**
  - Stainless steel 316: ASTM-A-351-2000 GR CF8M
  - Carbon Steel: ASTM-A-216-2000 GR WCB
- Spinner**
  - PPS
- Spindle**
  - Stainless steel 316
- Glass**
  - Toughened Borosilicate (DIN7080) (16 bar) or,
  - Toughened Soda Lime (BIS 3463) (40 bar)
- Gasket**
  - PTFE
- Flap**
  - Stainless steel 316
- Spinner**
  - PTFE, PVC
- Scale**
  - Polycarbonate
- Fasteners**
  - Stainless steel A2

- Pressure**
  - 16 Bar (maximum working pressure)
- Temperature**
  - 250°C (maximum working temperature)
- Connections**
  - Threaded up to 2 inch BSP/NPT
  - Flanged up to 10 inch; PN, ANSI, JIS
  - Other connection types and larger sizes available on request

## Connections

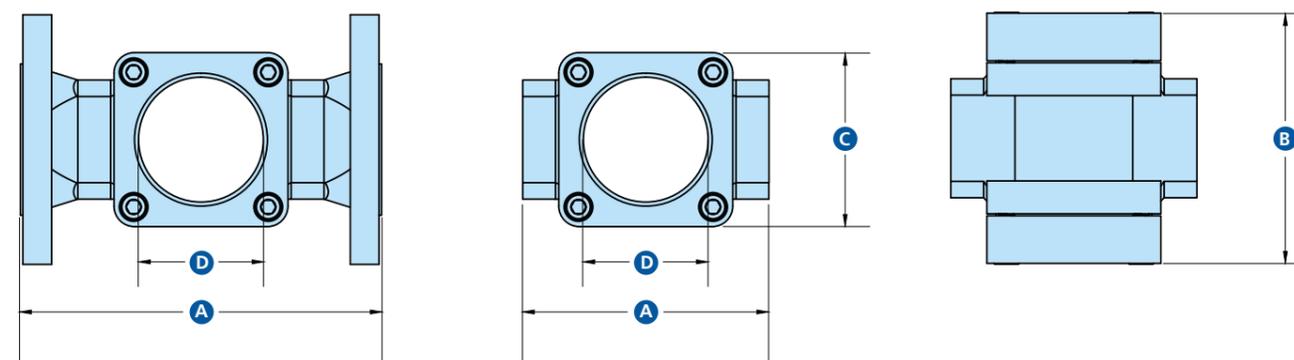
- Available for any threaded, socket weld or flanged connection type.

## Features & Benefits

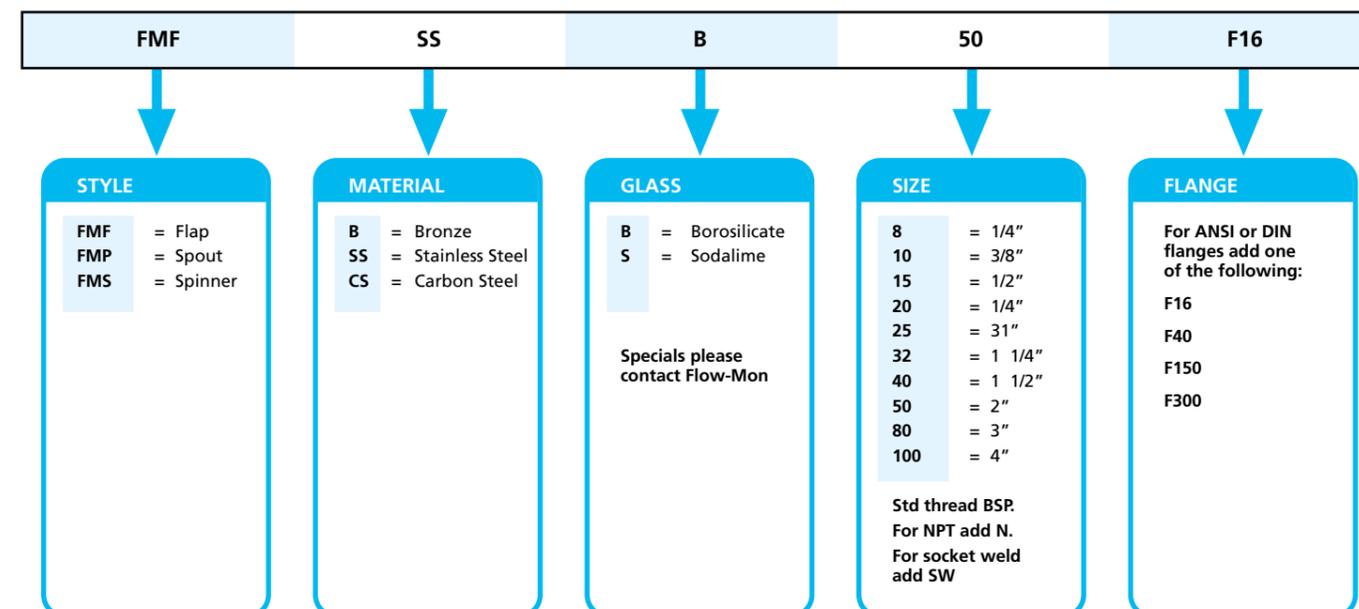
- High quality robust design
- Body cast in stainless steel or carbon steel (other materials available)
- Threaded or flanged connections
- Pressures up to 40 Bar
- Temperatures up to 250 degrees
- Can be mounted in any orientation (flap design horizontal and up only)
- CE Marked and fully compliant with the Pressure Equipment Directive

## Flow Requirements

Size	Weight (kg) (mm)		A (mm)		B (mm)	C (mm)	D (mm)	2	4	6	8	Top	Max Flow
	T	F	T	F									
8	2	4	95	140	89	66	48	2.5	3.5	4.5	7	22	100
10	2	4	95	140	89	66	48	2.5	4	4.5	7	24	150
15	2	4	95	140	89	66	48	3	4.5	6	8.5	20	250
20	2	4	95	140	89	66	48	3	5	6	9	20	250
25	2	4	95	140	89	66	48	3.5	6	8	10	25	250
32	4	7	120	180	120	89	62	7	11	14	24	40	550
40	4	7	120	180	120	89	62	8	12	15	25	50	600
50	4.5	9	150	220	170	110	77	9	15	28	50	75	1000
80	-	19.5	-	258	160	165	100	24	32	52	128	220	
100	-	25	-	258	160	165	100	46	70	100	150	220	
150	20	-	80	360	333	279							
200	20	-	80	360	333	279							



## Example Parts List



# Flow Rate Indicator



Our Flow Rate Indicators are manufactured in a wide range of sizes and specifications providing flow solutions for a broad range of applications. They are designed to be robust, highly versatile and extremely reliable in the harshest of environments. They continuously monitor flow with a local indication, through a mechanical pointer, switch, transmitter or digital rate totaliser and, can be manufactured in a variety of materials to suit each application.

## Design

This unique modular design allows for easy field installation and service. No straight run of pipe is required before or after the monitor minimizing pressure drop and the installation footprint. Vane-style flow meters have a spring-opposed vane that moves in relation to the flow rate. The fluid forces the vane to move through a contoured opening creating a variable orifice, the greater the flow the larger the orifice becomes for flow to pass. The vane style monitor is spring loaded and allows the vane to return on decreasing flows

## Features & Benefits

- Calibrated in any unit of measure
- Single or Dual scale options
- Individually calibrated
- Simple modular design
- Low pressure drop
- Viscosities up to 600cSt
- 1% rate of repeatability switch set point – accurate & reliable
- Size range from 8mm (1/4") to 200mm (8")
- Installed in any position
- Weatherproof enclosure box
- Capable of twice the maximum indicated flow
- Available in a wide range of materials



## Switches

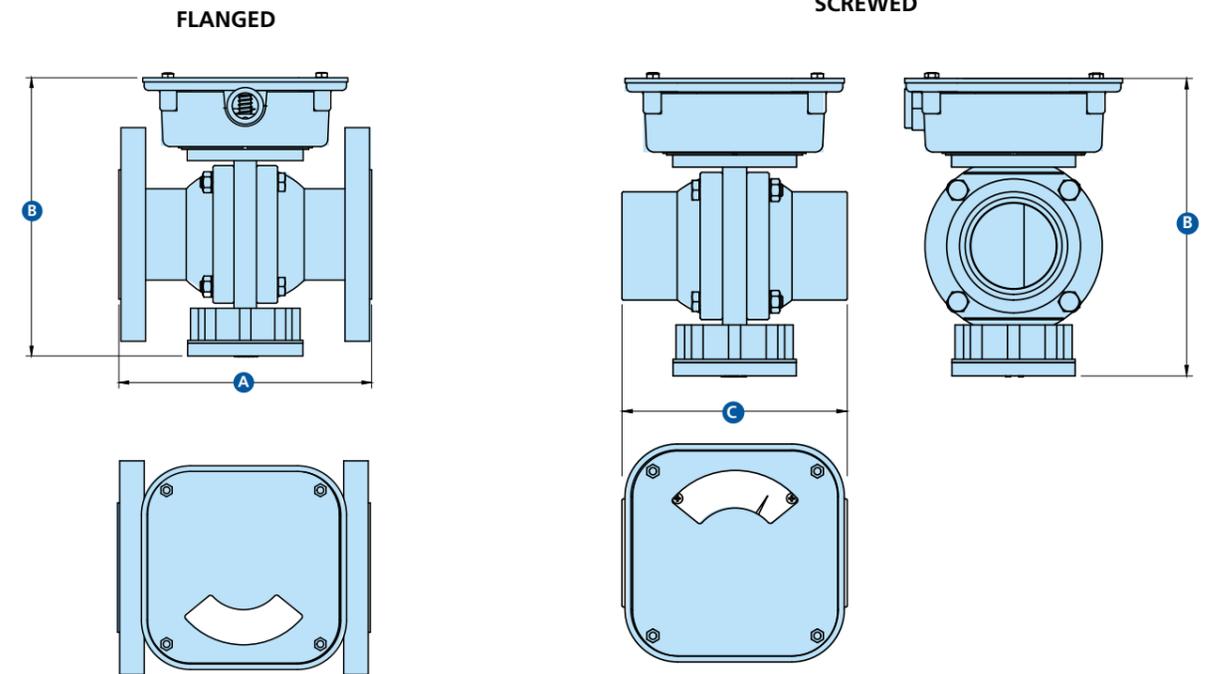
Vane style flow meters can be connected to a field adjustable indicator or transmitter suitable for batching, trending, totalising or recording.

- SPDT 3 & 4 wire mechanical switch (gold contacts available)
- DPDT 6 wire mechanical switch
- 4-20mA Output
- 0-10V Potentiometer
- Digital Rate Totaliser
- ATEX variants available

## Applications

- Water
- Soluble Oils (Glycols)
- Synthetic Based Fluids
- Corrosive Fluids
- Solvents
- De-Ionised Water
- Petroleum Based Fluids
- Coolants
- Paints
- Air & Gases

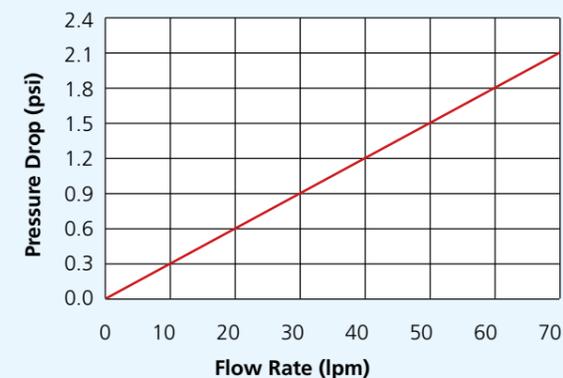
## Dimensions



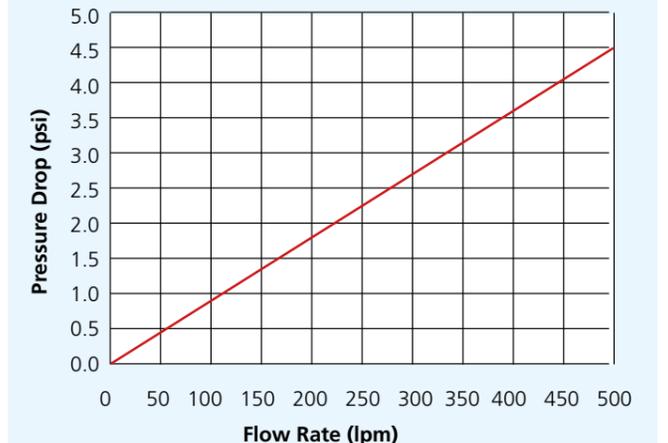
Min Full Scale LPM	Max Full Scale LPM	Pipe Size	Dimensions			Weight (kg)				
			a	b	c	AL	B	CI	S/SS	PVC
4	70	¼ – 1"	160	150	130	1	2	2	2	1
40	500	¾ – 2"	180	200	150	3	7	7	7	3
50	800	2 ½"	180	200	230	5	10	10	10	4
250	1500	3"	255	320	305	20	54	50	54	15
300	2000	4"	255	320	305	23	60	56	60	17
800	3500	6"	460	500	510	60	200	175	200	-
1000	5000	8"	485	500	535	68	225	200	225	-

## Pressure Drop Charts

### Small Series



### Medium Series



# PART CODE BUILDER

## SERIES AND FLOW RATE

- FMC\* = Low Flow
- FML\* = Litres/Min
- FMB\* = Imp. Gallons/Min
- FMG\* = U.S. Gallons/Min
- FMM\* = M3/Hour

\* Add Full Flow Rate in Units

## MATERIAL OF MANUFACTURE

- AL = Aluminium
- B = Bronze
- CI = Cast Iron
- CIK = Cast Iron Nickel Plated
- S = Carbon Steel
- SS = Stainless Steel
- PTFE\* = PTFE
- PVC\* = PVC

\* Only available up to 4" Port Connections and 100 psi / 7 bar maximum pressure. Note: For materials and pressures not specified, please consult factory

## PRESSURE RATING

- LP = 300psi / 20 bar maximum
- MP = 750 psi / 50 bar maximum
- HP = 3000 psi / 200 bar maximum\*

\* CI, CIK, S & SS only

## FLOW DIRECTIONS

- D1 =
- D2 =
- D3 =
- D4 =

## O RING SEAL MATERIAL

- S1 = Buna (-40°C +110°C)
- S2 = EPDM (-40°C +150°C)
- S3 = Viton (-20°C +200°C)
- S4 = PTFE (-100°C +250°C)
- S5 = Perlast (-15°C +330°C)

**FML200 SS LP 3EE 1cS 12F150 S3 D1**

### Example Parts List

## INDICATOR READ OUT

- ME = Mechanical Pointer only
- 3EE = SPDT 3 Wire Switch
- 3EEG = SPDT 3 Wire Switch with Gold Contacts
- 4EE = single-pole, double throw, double-break
- 6EE = DPDT 6 Wire Switch
- 3EE(ATEX2) = SPDT Explosion Proof Micro Switch to ATEX zone 2
- 3EE(ATEX1) = SPDT Explosion Proof Switch to ATEX zone 1
- 6EE(ATEX1) = DPDT Explosion Proof Switch to ATEX zone 1
- AIR = Pneumatic Switch
- POT = Potentiometer (Specify Rating)
- OUT = 4-20 mAmp Output
- OUTX = 4-20 mAmp (ATEX)
- TOT = Digital Rate Totaliser
- TOTX = Digital Rate Totaliser (ATEX)

Note 1: All electrical boxes (apart from TOT & TOTX) also carry a Mechanical Pointer  
 Note 2: For 4 & 6 Wire Switches replace 3EE by 4EE or 6EE  
 Note 3: Manufactured to IP65 (NEMA 4) as standard (up to 2 1/2")

### Electrical Options

**Code: 3EE**  
 Basic single pole, double throw, double-break.  
 10 Amp - 125, 250 or 480V.AC  
 0.5 Amp - 125V.DC / 0.25 Amp - 250V.DC

**Code: 4EE**  
 Contact arrangements is single-pole, double throw, double-break  
 10 Amp - 125 or 250V.AC  
 0.3 Amp - 125V.DC / 0.15 Amp - 250V.DC

**Code: 6EE**  
 Double-pole, double throw switches simultaneously make and break two independent circuits.  
 10 Amp - 125 Or 250V.AC  
 0.3 Amp - 125V.DC / 0.15 Amp - 250V.DC

**Code: Air**  
 This system offers an alternative safety arrangement for operation in explosive atmospheres. Compressed air can be used to transmit an on / off signal from the danger area, or to operate a klaxon inside the danger area.

**Code: POT**  
 Remote read-out option (0-10V). Rating to customer's specification, e.g. 1K, 2K etc.

**Code: OUT**  
 A non contact position encoder gives a continuous required 4-20 mAmp readout. Data Loggers or Recorders can be added to the system.  
 The 3 and 6 wire switches described above are available in ATEX approved explosion proof versions, with the appropriate enclosure box. When two or more switches are assembled in one unit, they remain independently adjustable. Re-adjustments may be carried out in the field.

## PORT CONNECTIONS

- 2 = 1/4"
- 4 = 1/2"
- 6 = 3/4"
- 8 = 1"
- 10 = 1 1/4"
- 12 = 1 1/2"
- 16 = 2"
- 20 = 2 1/2"
- 24 = 3"
- 32 = 4"
- 48 = 6"
- 64 = 8"

Sizes 1/4" - 2" are Screwed or Flanged. For Flanged Bodies, add relevant code letters (shown below)

Sizes 1/2" - 8". Standard units have flanged Bodies - add relevant code letters (shown below) Cast Iron and Steel mating flanges are available: For Screwed add - S For Socket Weld, add - SW

Standard Threads are BSP, not NPT add - N. For Wafer connections add W then Flange types (e.g. WF10). For Flanged connections add one of the following codes:

**F10**  
**F16**  
**F25**  
**F40**

Alternative Pressure Ratings in BSEN1092 / DIN2632-5

**F150**  
**F300**  
**F600**

Alternative Pressure Ratings in BS1560/ANSI B16.5.

**FAD**  
**FE**  
**FF**

Alternative Pressure Ratings in BS10

For special flange connections, please enquire at factory

## VISCOSITY AT OPERATING TEMPERATURE

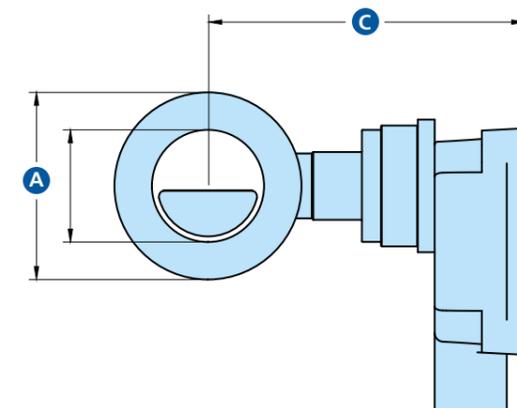
State units and scale eg. Water is 1 Centistoke (cS)  
 Maximum rating should not exceed 600cS

## AIR & GAS APPLICATIONS

Flow-mon flow switches can be used to measure gas flows in exactly the same way as liquid flows. when enquiring for such an application the following information will be required:

- Specify gravity of the gas
- Maximum flow volume
- Operating Temperature
- Operating Pressure

# Wafer



The wafer is designed to mount between two flanges which reduces the weight, size and cost. They are robust, highly versatile and extremely reliable in the harshest of environments.

They continuously monitor flow with a local indication, through a mechanical pointer, switch, transmitter or digital rate totaliser and, can be manufactured in a variety of materials to suit each application.

## Features & Benefits

- Direct reading Flow Rate Indication
- Optional (field adjustable) switch(es)
- Optional Non-Contact 4-20mA Output
- High Pressure available
- Mounts easily between ANSI, JIS or DIN flanges
- Mounts in any orientation
- No straight Pipe Run required
- Connection sizes from 3" to 12"

Minimum Scale 0-40 LPM

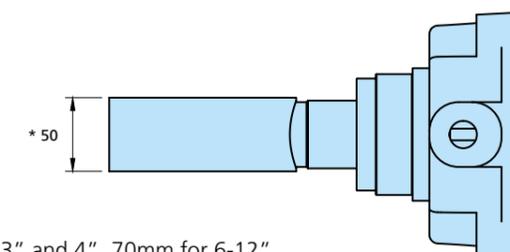
Maximum Scale on request

## Style

This unique modular design allows for easy field installation and service. No straight run of pipe is required before or after the monitor minimizing pressure drop and the installation footprint. Vane-style flow meters have a spring-opposed vane that moves in relation to the flow rate. The fluid forces the vane to move through a contoured opening creating a variable orifice, the greater the flow the larger the orifice becomes for flow to pass. The vane style monitor is spring loaded and allows the vane to return on decreasing flows.

## Dimensions

DN	A	C	ANSI	A	C
80	138	216	3	127	210
100	158	226	4	157	217
150	218	264	6	216	263
200	278	291	8	270	287
250	335	318	10	324	313
300	395	348	12	381	338



\* for 3" and 4", 70mm for 6-12"

## Switches

Are field adjustable, suitable for batching, trending, totalising or recording where required. All switch units can be supplied with a 0-10v or 4-20mA output.

## Applications

Water, De-Ionised Water, Soluble Oils (Glycols), Petroleum Based Fluids, Synthetic Based Fluids, Coolants, Corrosive Fluids, Paints, Solvents, Air & Gases.

Contact us: [sales@flow-mon.com](mailto:sales@flow-mon.com) or call 0044 (0)1423 561972

# Turbine Flow Meter



Our Turbine Meters are suited for use on lubricating or non-lubricating liquids of low to medium viscosity and largely insensitive to density variations, pressure or temperature fluctuations. They are available in a wide variety of body sizes and styles, with an electrical pulse output directly proportional to the flow rate.

## Design

Turbine flow meters use the mechanical energy of the fluid to revolve the rotor in the flow stream. Blades on the rotor are angled to transform energy from the flow stream into rotational energy. When the fluid moves faster, the rotor spins proportionally faster. Shaft rotation can be sensed mechanically or by detecting the movement of the blades. Blade movement is often detected magnetically, with each blade or embedded piece of metal generating a pulse. Turbine flow meter sensors are typically located external to the flowing stream to avoid material of construction constraints that would result if wetted sensors were used. When the fluid moves faster, more pulses are generated. The transmitter processes the pulse signal to determine the flow of the fluid.

## Features & Benefits

- Available in a wide variety of body sizes
- Available with remote flow rate indication, alarms, totalising and batch control functions.
- Standard end connections are screwed BSP parallel threads, flanged meters are available to ANSI, DIN or BS standards

## Technical Data

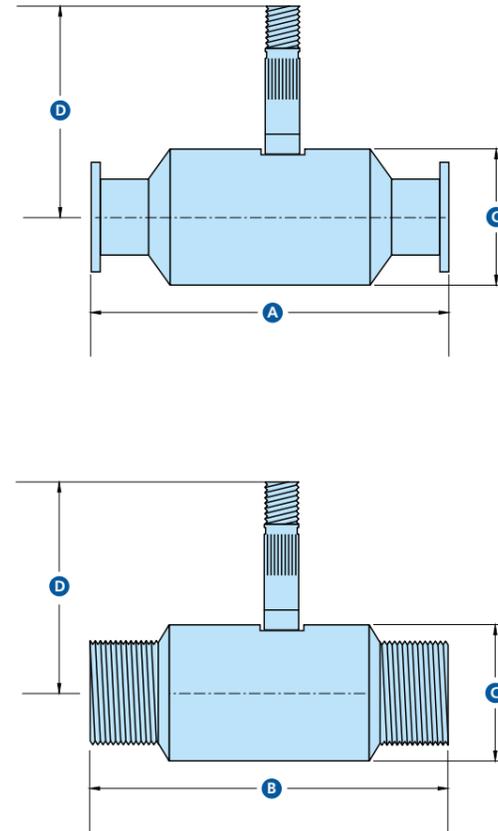
- Linear Accuracy** -  $\pm 0.5\%$  over 10:1 range
- Repeatability** -  $\pm 0.1\%$  of reading
- Response Time** - 550 milliseconds for 50% step change in flowrate
- Output Signal** - Sinusoidal pulses  
50mV - 800mV peak  
varying with flowrate
- Operating Pressure** - Operating pressure limited to design of end coupling
- Pressure Drop** - 0.2 - 0.5 bar depending on meter size
- Flow Range** - 10:1 as standard  
Wider ranges possible
- Temperature** -  $-30^{\circ}\text{C}$  min  
 $150^{\circ}\text{C}$  max (standard coil)  
 $400^{\circ}\text{C}$  special design  
 $120^{\circ}\text{C}$  intrinsically safe
- Transmission Distance** - 500 metres max without pre-amplifiers for low-noise environment
- Mounting Attitude** - Horizontal or vertical (flow upwards) or inclined

## Applications

- Oil and Gas
- Water and Wastewater
- Gas Utility
- Chemical
- Power
- Food and Beverage
- Aerospace
- Pharmaceutical
- Mining
- Pulp and Paper



## Dimensions



	A	B	C	D
FMT3	51	110	25	82
FMT5	64	110	25	82
FMT7	64	110	25	82
FMT11	85	110	38	84
FMT13	85	110	38	86
FMT19	114	150	51	89
FMT24	114	150	51	91
FMT32	135	174	64	95
FMT38	150	174	64	98
FMT48	180	210	76	103
FMT65	-	258	100	112
FMT80	-	316	100	119
FMT100	-	386	167	130
FMT150	-	410	167	155

Allow an extra 50mm height on dimension 'D' for pick off coil connector

## Sizing Table

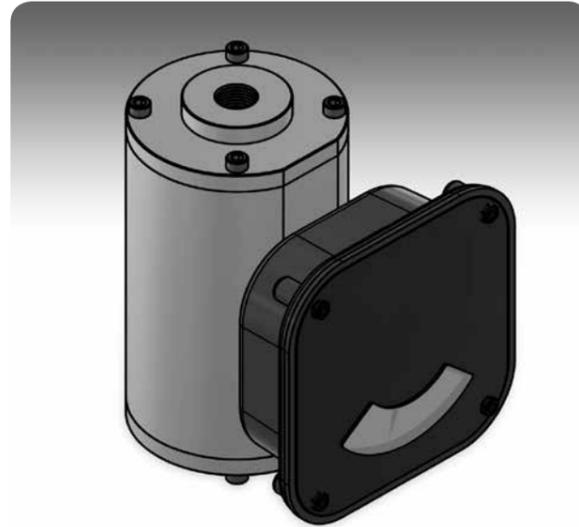
Type Number	Flow Rate (Linear)		Approx K-factor			Standard End Fittings		
	Ltr/Min	I.G.P.M	Ltr	Imp Gall	Linearity	BSP Screwed	ANSI or BS10	DIN Flange
FMT3	0.5-5	.11-1.1	17000.0	771800.0	$\pm 0.5\%$	1/2"	1/2"	ND15
FMT5	1.2-10	.22-2.2	5900.0	26780.0	$\pm 0.5\%$	1/2"	1/2"	ND15
FMT7	2-20	.44-4.4	3000.0	13620.0	$\pm 0.5\%$	1/2"	1/2"	ND15
FMT11	5-50	1.1-11	2600.0	11800.0	$\pm 0.5\%$	1/2"	1/2"	ND15
FMT13	8-80	1.8-18	1950.0	8850.0	$\pm 0.5\%$	3/4"	1/2"	ND15
FMT19	15-150	3.3-33	630.0	2860.0	$\pm 0.5\%$	1"	1"	ND25
FMT24	25-250	5.5-55	350.0	1590.0	$\pm 0.5\%$	1"	1"	ND25
FMT32	45-450	9.9-99	135.0	613.0	$\pm 0.5\%$	1 1/4"	1 1/2"	ND40
FMT38	65-650	14.5-145	117.0	530.0	$\pm 0.5\%$	1 1/2"	1 1/2"	ND40
FMT48	110-1100	25-250	67.0	305.0	$\pm 0.5\%$	2"	2"	ND50
FMT65	200-2000	44-440	18.0	82.0	$\pm 0.5\%$	3"	2 1/2"	ND65
FMT80	300-3000	66-660	14.0	64.0	$\pm 0.5\%$	-	3"	ND80
FMT100	500-5000	110-1100	7.5	34.0	$\pm 0.3\%$	-	4"	ND100
FMT150	1000-10000	220-2200	3.4	15.5	$\pm 0.3\%$	-	6"	ND150

# Low Flow Indicator

The Flow-Mon Low Flow Unit is a robust flow indicator specifically designed to manage low flow rates of liquids and gases. Its basic design provides a simple and robust accurate measurement well suited to harsh industrial process applications. It is easy to install and can be mounted in any orientation offering threaded or flanged connections with very low pressure loss.

## Design

A fixed tapered needle passing through an orifice in the face of a piston, the device completely seals the port to port connection when the piston is seated. As flow commences, the piston is displaced against a differential spring and moves over the tapered section of the needle to permit flow through the orifice. Accuracy is not affected by position so the unit can be mounted in any plane.



## Features & Benefits

- Calibrated in any unit of measure
- Measures down to 50cc/minute
- Maximum capacity 5litres/minute
- Installed in any position
- Low pressure drop
- Weatherproof enclosure box
- Available in a wide range of materials
- High pressure variant available
- Size range from 8mm (1/4") to 50mm (2")

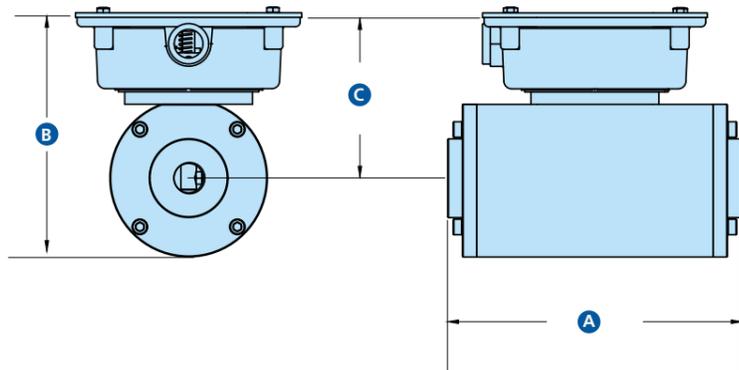
## Switches

The low flow meter can be connected to a field adjustable indicator or transmitter suitable for batching, trending, totalising or recording. All Flow-Mon units can be supplied with a 0-10v or 4-20mA output.

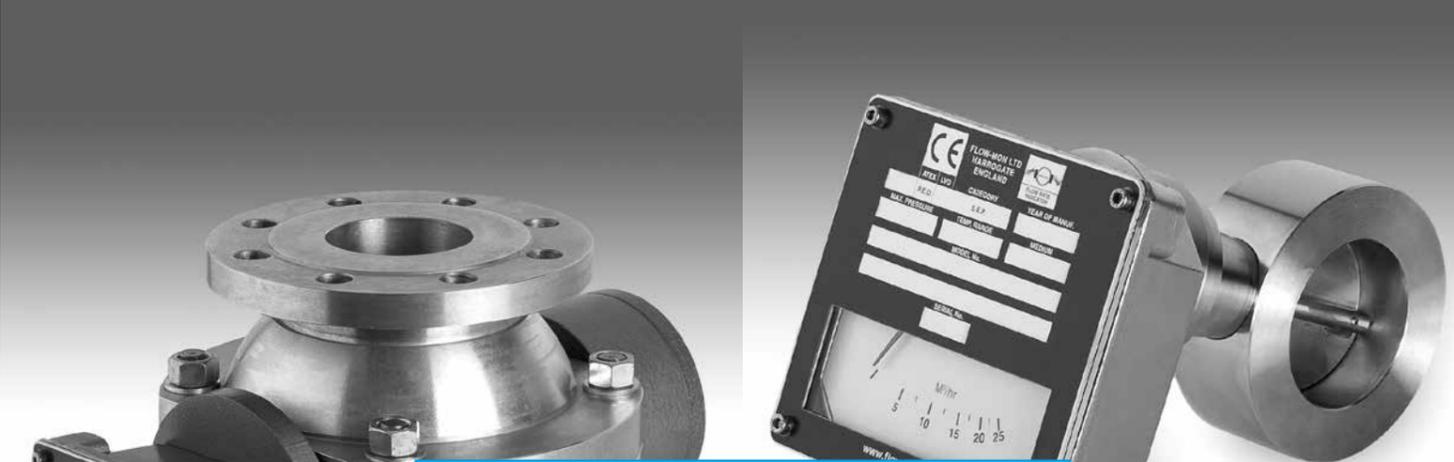
## Applications

- Water
- Soluble Oils (Glycols)
- Synthetic Based Fluids
- Corrosive Fluids
- Solvents
- De-Ionised Water
- Petroleum Based Fluids
- Coolants
- Paints
- Air & Gases

## Dimensions and Weight



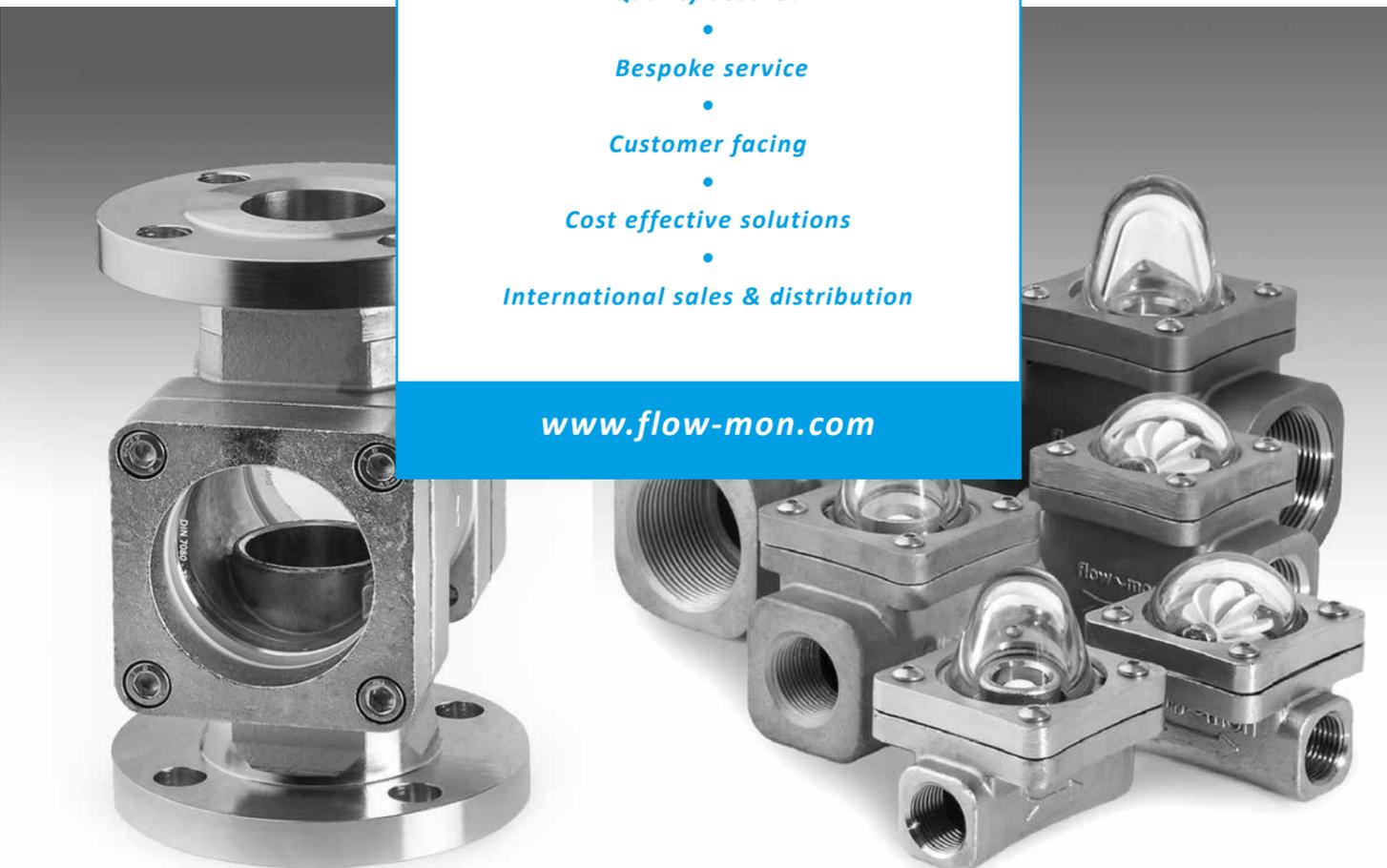
Min Full Scale LPM	Max Full Scale LPM	Pipe Size	Dimensions			Weight (kg)			
			a	b	c	AL	B	S/SS	PVC
0.2	5	1/4" - 1"	190	161	110	3	8	8	3



**MANUFACTURER OF SPECIALIST  
FLOW INSTRUMENTS**

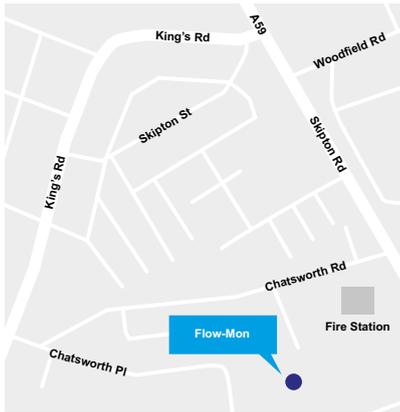
- **Reliable**
- **Short lead times**
- **Quality assured**
- **Bespoke service**
- **Customer facing**
- **Cost effective solutions**
- **International sales & distribution**

[www.flow-mon.com](http://www.flow-mon.com)



Contact us: [sales@flow-mon.com](mailto:sales@flow-mon.com) or call 0044 (0)1423 561972

## Location - Harrogate



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Flow-Mon are dedicated to deliver the best service to your industry.

Contact us on email at [sales@flow-mon.com](mailto:sales@flow-mon.com) or call **0044 (0)1423 561972** to see how our experienced team can help.

Visit our website for more information [www.flow-mon.com](http://www.flow-mon.com)



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