

Visual Flow Indicator go with the flow...



Flow-Mon's 'Rising Ball' and 'Spinner': the latest design of low cost, 'entry level' Flow Indicators.

These robust indicators out perform other visual flow instruments by a considerable margin. When calibrated flow indicators are not needed these units will satisfy most requirements within pipe sizes 8mm to 40mm. Being constructed from high quality materials these in-line indicators will meet the needs of many chemical applications, as well as being suitable for water, oil and gases.

The Flow-Mon visual flow indicators start to operate once flow has commenced, this can be from as low as 0.1 LPM. The exceptional ratio between maximum and minimum flow is achieved by carefully tolerated manufacture. When operators require a visual confirmation in their pipework, for lubrication and coolant flow, these simple indicators can provide a cost effective solution for plant protection. Including one of these inexpensive fittings to pipework on a power-plant may save thousands of pounds in downtime and bearing or pump impeller replacement. Add to this the safety implications resulting from plant failure and the true benefits may be fully appreciated.

Features & Benefits

- Suitable for water, gas and other clear liquids.
- Excellent chemical compatibility due to the materials of construction
- Operates over a wide flow range.
- Competitively priced.
- Off the shelf deliveries.
- No routine maintenance needed.
- Unrivalled flow and pressure drop performance.
- Manufactured in stainless steel or bronze.

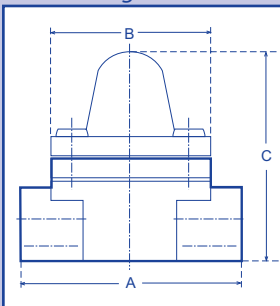
Applications

This flow indicator is primarily used in plant protection applications to show lubrication or coolant flow to pumps, compressors or engines. Applications include:

- Early warning of overheating, bearing or seal failure.
- Detecting changes in the colour and condition of liquids during processing.
- Pump, compressor and diesel protection.
- Ensuring that flow of cooling water is maintained to specialised welding equipment.
- Indication of air entrainment.
- Indicating chemical dosing on water treatment facilities.
- Showing the presence of condensate in steam return lines.
- Maintaining demineralised water rinsing essential to electronics components manufacture.

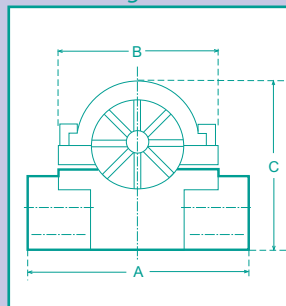
RISING BALL

Figure 1



SPINNER

Figure 2



Technical Data

Materials:

Body - Stainless Steel (ANC4B) or - Bronze (LG2)

Clamp Ring - Stainless Steel or Bronze

Spinner - PPS plastic, 'canary yellow'

Ball - PTFE 'Teflon'

Glass Dome - Annealed Borosilicate

'O' Ring - Viton (standard), PTFE (optional)

Gasket - Klingsil (C-4400)

Fasteners - Stainless Steel

Pressure: - 16 Bar (maximum working pressure)

Temperature: - 200°C (maximum working temperature)

Connections: - BSP(F) parallel and NPT(F) taper

Flow Direction: - Rising Ball: Horizontally Mounted - Single Direction

- Spinner: Horizontal/Vertical Mounting - Bi-Directional

Every effort will be made to meet any special connections and material requirements.

Table 1

| Flow Requirements | | | | Dimensions and Weights | | | | | |
|-------------------|----------|---------------|-------------------------|------------------------|-------|--------|--------------------|-------------------|--------------------|
| Size | Min Flow | Out of Socket | Pressure Drop - 2 m/sec | Bore | Size | Weight | 'A' Overall Length | 'B' Width (Clamp) | 'C' Overall Height |
| mm | l/min | l/min | bar | mm | inch | kg | mm | mm | mm |
| 8 | 0.1 | 1.0 | 0.13 | 8 | 1/4 | 0.72 | 76 | 63 | 79 |
| 10 | 0.1 | 1.0 | 0.16 | 10 | 3/8 | 0.69 | 76 | 63 | 79 |
| 15 | 0.1 | 1.0 | 0.19 | 15 | 1/2 | 0.65 | 76 | 63 | 79 |
| 20 | 2.4 | 5.2 | 0.16 | 20 | 3/4 | 1.30 | 89 | 63 | 95 |
| 25 | 2.7 | 5.5 | 0.40 | 25 | 1 | 1.25 | 89 | 63 | 95 |
| 32 | 11.0 | 16.0 | 0.20 | 32 | 1 1/4 | 2.50 | 117 | 75 | 125 |
| 40 | 16.0 | 21.0 | 0.23 | 40 | 1 1/2 | 2.35 | 117 | 75 | 125 |

Table 2

| Flow Requirements | | | | Dimensions and Weights | | | | | |
|-------------------|----------|----------|-------------------------|------------------------|------|--------|--------------------|-------------------|--------------------|
| Size | Min Flow | Max flow | Pressure Drop - 2 m/sec | Bore | Size | Weight | 'A' Overall Length | 'B' Width (Clamp) | 'C' Overall Height |
| mm | l/min | l/min | bar | mm | inch | kg | mm | mm | mm |
| 8 | 0.7 | 30 | 0.14 | 8 | 1/4 | 0.68 | 76 | 63 | 65 |
| 10 | 0.8 | 40 | 0.16 | 10 | 3/8 | 0.65 | 76 | 63 | 65 |
| 15 | 1.0 | 55 | 0.22 | 15 | 1/2 | 0.62 | 76 | 63 | 65 |
| 20 | 1.2 | 90 | 0.19 | 20 | 3/4 | 1.25 | 89 | 63 | 83 |
| 25 | 1.5 | 140 | 0.50 | 25 | 1 | 1.20 | 89 | 63 | 83 |



CE PED, ATEX & LVD Approved



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