DS1162

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Features:

- Approved and listed by LPCB for automated sprinkler systems
- 150-2,500 dm³/min range
- Easy and quick installation
- Flanged or Victaulic connections available
- Instantaneous reading
- Best in class flow ranges
- Insolation valves for tube replacement and cleaning
- Air bleed and drain valves
- Spare tube supplied



SHUNT ORIFICE FLOWMETER FOR AUTOMATIC SPRINKLER INSTALLATIONS

The Shunt Gapmeter Model LPCB is approved for regular monitoring and testing of sprinkler systems by the LPCB, Loss prevention Certification Board, under their 'Rules for Automatic Sprinkler Installations', in the UK, and by many equivalent organizations in other countries.

Model LPCB provides a compact, robust, direct reading flowmeter for 50mm-200mm pipelines and is suitable for use in horizontal or vertical pipes.



Approved and listed by the Loss Prevention Certification Board, and equivalent overseas authorities



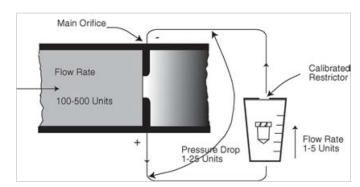
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Standard Specification

| Orifice Plate: | Stainless Steel mounted in a 38mm thick, red polyester coated steel carrier ring |
|-------------------------|---|
| Measuring Tube: | Borosilicate glass with 100mm fused-in ceramic scale |
| Float: | Stainless Steel |
| Accuracy: | ±5% at various test flows specified by LPCB |
| 'O' Seals: | Nitrile |
| Indicator Housing: | Die-cast aluminum with white polyester coating, black bezel and perspex window |
| Inpulse Pipe: | Bright nickel plated copper with plated brass connections |
| Isolating Valves: | Full bore (8mm) brass ball valves bright nickel plated |
| Drain/Bleed Valves | Brass, bright nickel plated with PTFE seat |
| Rodding Device | Brass body, 316 Stainless Steel rod |
| Filter Unit: | 316 Stainless Steel element with 1.5mm perforations, TPX tube, plated brass connections and nitrile 'O' seals |
| Temperature Limitation: | 80°C |
| Pressure Limitation: | 12 bar g @ 20°C |
| Pressure Test: | 30 bar hydraulic |
| Pressure Drop: | At max flow rate 65% of the orifice pressure loss of 354"WG is recovered |
| Installation: | As per manual OMM 1002 |
| Approval: | Units approved by LPCB (UK) |
| LPCB Listing: | Approved Fire and Security products and Services Part 5, Automatic Sprinkler, Water Spray and Deluge Systems, Section 6: Direct Reading Flowmeters. |

PRINCIPLE OF OPERATION

The Shunt Gapmeter Model LPCB is a combination of two simple measuring elements. In the main flow line an orifice plate is inserted, producing a pressure drop related to flow rate. Across the orifice plate, a shunt or bypass loop uses this pressure drop to create a small flow through a similar orifice restrictor and a Variable Area flowmeter. The flow in the bypass VA meter is proportional to the main line flow and special scaling on the glass tube allows the main line flow to be measured directly.



SPECIAL FEATURES

- Full bore isolating valves for meter isolation, filter cleaning or flow tube replacement.
- In-line filter avoids clogging of the bypass line or the flow restrictor with pipe debris. 'Rodding device' allowing the clearance of debris or algae from the orifice bypass restrictor.
- Bleed valves allowing drainage of the metering section and/or venting of trapped air.
- The flow tube is replaceable on site and a spare tube is supplied with each meter.



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Flow Ranges and Order Code

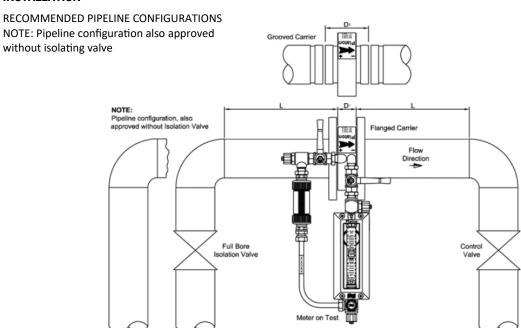
| Flanged Carrier Ref's | | Groove Carrier Ref's | | | | | Accuracy @ |
|--------------------------|---------|----------------------|---------|---------------------------|------------------------|------|-----------------------|
| LPCB* | Platon~ | LPCB* | Platon~ | Nominal Pipe Size (mm) | Flow Ranges dm³/min | | Test Flows dm³/min |
| 088a/05 | F1/5 | 088a/10 | F1/10 | 50 | 150-750 | 500 | ±25 |
| 088a/06 | F1/6 | 088a/11 | F1/11 | 80 | 300-2300 | 800 | ±40 |
| | | | | | | 1300 | ±65 |
| 088a/07 | F1/7 | 088a/12 | F1/12 | 100 | 500-3500 | 1500 | ±75 |
| | | | | | | 2200 | ±110 |
| 088a/08 | F1/8 | 088a/13 | F1/13 | 150 | 900-8200 | 2500 | ±125 |
| | | | | | | 3500 | ±175 |
| | | | | | | 4500 | ±225 |
| 088a/09 | F1/9 | 088a/14 | F1/14 | 200 | 2500-12500 | 5000 | ±250 |
| | | | | | | 7000 | ±350 |
| | | | | | | 9000 | ±450 |

*The LPCB ref No. appears on the Carrier only

~The Platon ref No. appears on both the Carrier and Tube.

Also, the Tube & Float assemblies of a particular NB are universal between the 2 carrier styles and therefore, carry both Platon Ref No.s, ie F1/6 or F1/11.

INSTALLATION



The recommended minimum length of straight pipe required upstream and downstream of the orifice plate is defined by the table below.

| Meter Size | | 50mm | 80mm | 100mm | 150mm | 200mm |
|-----------------------|---|-------|-------|-------|-------|------------|
| Recommended length of | А | 250mm | 400mm | 500mm | 750mm | 1000m m |
| straight pipe | В | 250mm | 400mm | 500mm | 750mm | 1000m m |

EQUIPMENT SUPPLIED

- Shunt orifice flowmeter suitable for installation in horizontal pipelines
- Alternative pipe sections for installations in vertical up or down flow lines
- Spare glass indicator tube as required by LPCB
- Installation and Operation Manual OMM 1002



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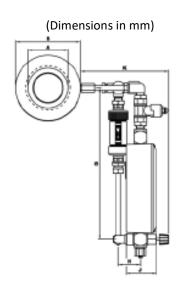
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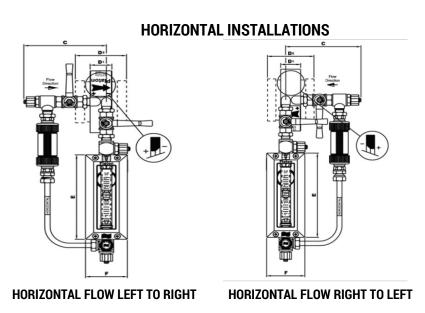
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SHUNT GAPMETER MODEL LPC LPCB APPROVED DIRECT-READING FLOWMETER FOR WATER

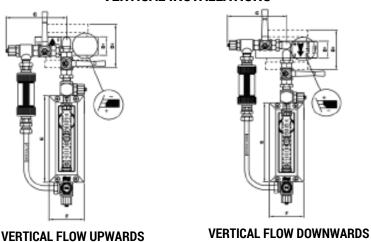




Dimention 'A' = PIPE SIZE (50, 80, 100, 150 OR 200mm)
Dimention 'B' = FLANGE BOLT P.C.D. MINUS BOLT DIAMETER

(Dimensions in mm)

VERTICAL INSTALLATIONS



For more detailed dimensions, certified drawings, operation, installation and maintenance instructions and recommended spares etc, refer to Operation and Maintenance Manual OMM 1002.

Every effort has been made during the preparation of this document to ensure the accuracy of statements and specifications. However, we do not accept liability for damage, injury, loss or expense caused by errors or omissions made. We reserve the right to withdraw or amend products or documentation without notice.







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