

# Platon Mk3. LPCB Fire Sprinkler Flowmeter

DS1162b



## Features:

- Approved and listed by LPCB for automated sprinkler systems
- 150-12,500 dm<sup>3</sup>/min range
- Easy and quick installation
- Flanged or Victaulic™ connections available
- Instantaneous reading
- Best in class flow ranges



## Description:

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

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



## General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

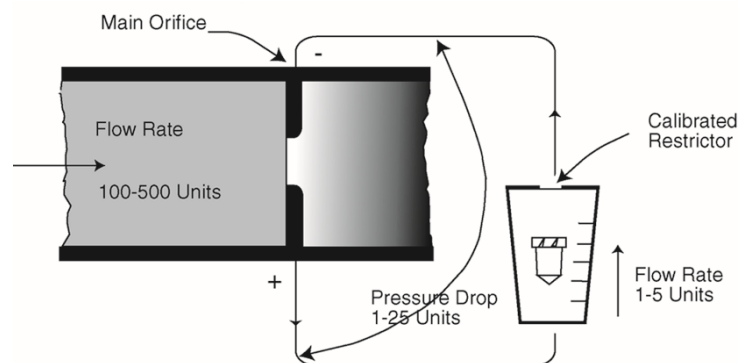
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### Standard Specification

<b>Orifice Plate</b>	Stainless Steel mounted in a 38mm thick, red polyester coated steel carrier ring.
<b>Measuring tube</b>	Borosilicate glass with 100mm fused-in-ceramic scale
<b>Float</b>	Stainless Steel
<b>Accuracy</b>	+/- 5% at various test flows specified by LPCB
<b>'O' Seals</b>	Nitrile
<b>Indicator housing</b>	Aluminium extrusion with plastic protection cover
<b>Inpulse pipe</b>	Bright nickel plated copper with plated brass connectors
<b>Isolating valves</b>	Full bore (8mm) brass ball valves bright nickel plated
<b>Drain/Bleed Valves</b>	Brass, bright nickel plated
<b>Rodding device</b>	Brass, bright nickel plated
<b>Filter Unit</b>	316 stainless steel, Perspex™ housing, plated brass connections and nitrile 'o' rings
<b>Temperature Limitation</b>	80 °C
<b>Pressure Limitation</b>	12 bar @ 20 °C
<b>Pressure Test</b>	30 bar hydraulic
<b>Pressure Drop</b>	At max flow rate 65% of the orifice pressure loss of 354"WG is recovered
<b>Installation</b>	As per OMM1003
<b>Approval</b>	Units approved by LPCB
<b>LPCB Listing</b>	Approved Fire and Security products and Services part 3, Automatic Sprinkler, Water Spray and Deluge Systems, Section 6: Direct reading flowmeters.

### PRINCIPLE OF OPERATION

The shunt gage meter model Mk3 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.
- The flow tube is replaceable on-site.

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## Flow Ranges and Order Codes

Flanged Carrier Refs		Grooved Carrier Refs		Nominal Pipe size (mm)	Flow ranges dm <sup>3</sup> /min	Test flows dm <sup>3</sup> /min	Accuracy @Test flows dm <sup>3</sup> / min
LPCB*	Platon~	LPCB*	Platon~				
088b/01	F1/15	088b/06	F1/20	50	150-750	500	+/-25
088b/02	F1/16	088b/07	F1/21	80	300-2300	800 1300	+/-40 +/-65
088b/03	F1/17	088b/08	F1/22	100	500-3500	1500 2200	+/-75 +/-110
088b/04	F1/18	088b/09	F1/23	150	900-8200	2500 3500 4500	+/-125 +/-175 +/-175
088b/05	F1/19	088b/10	F1/24	200	2500- 12500	5000 7000 9000	+/-250 +/-350 +/-450

\*The LPCB ref.  
No appears on  
the Carrier  
only

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

Also, the Tube  
and float as-  
semblies of a  
particular NB  
are universal  
between the 2  
carrier styles.

The recommended minimum lengths of pipework upstream ('A') and downstream ('B') of the meter are shown below:

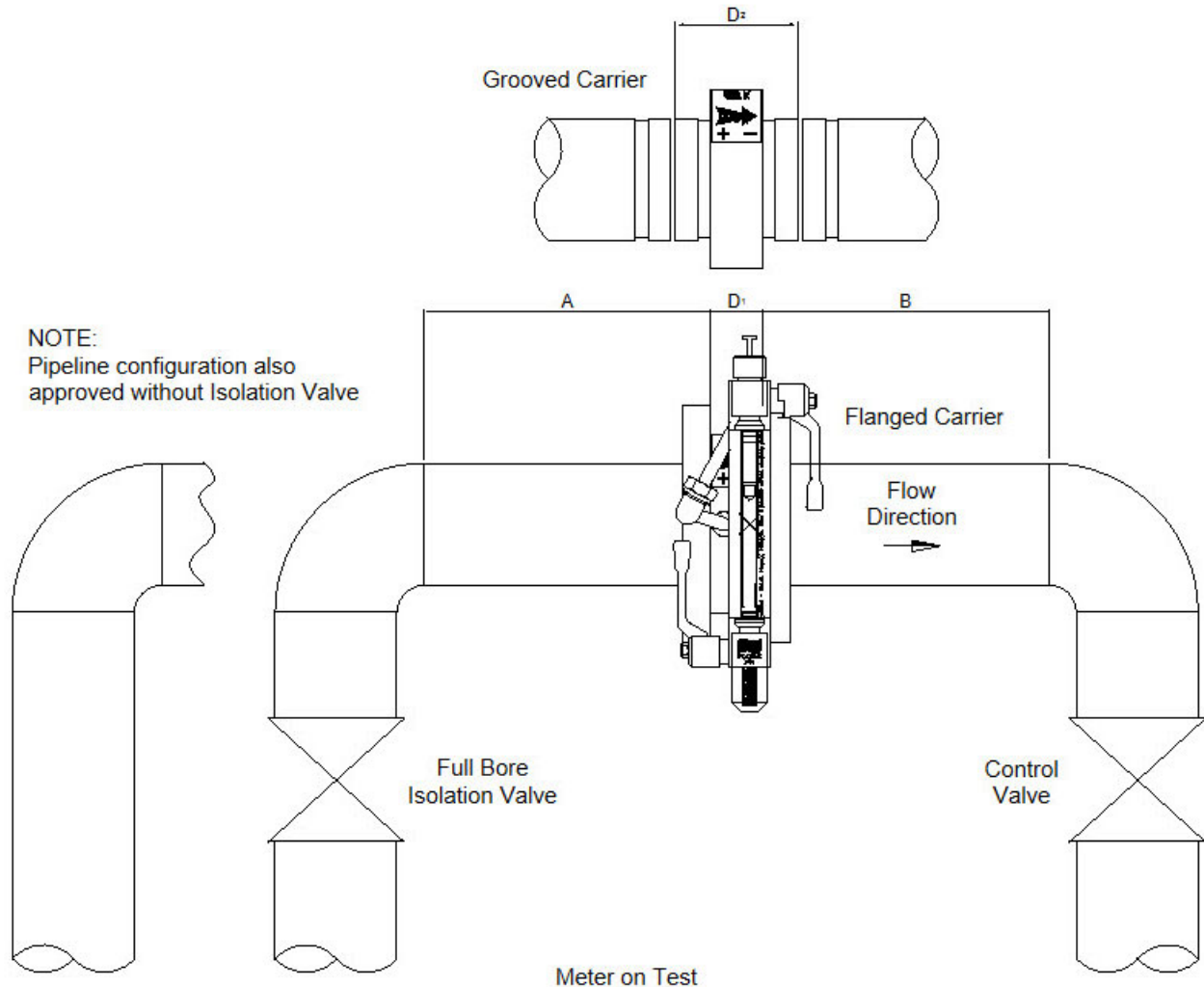
Meter Size		50mm	80mm	100mm	150mm	200mm
Upstream	'A'	250mm	400mm	500mm	750mm	1000mm
Downstream	'B'	250mm	400mm	500mm	750mm	1000mm

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### Recommended Installation

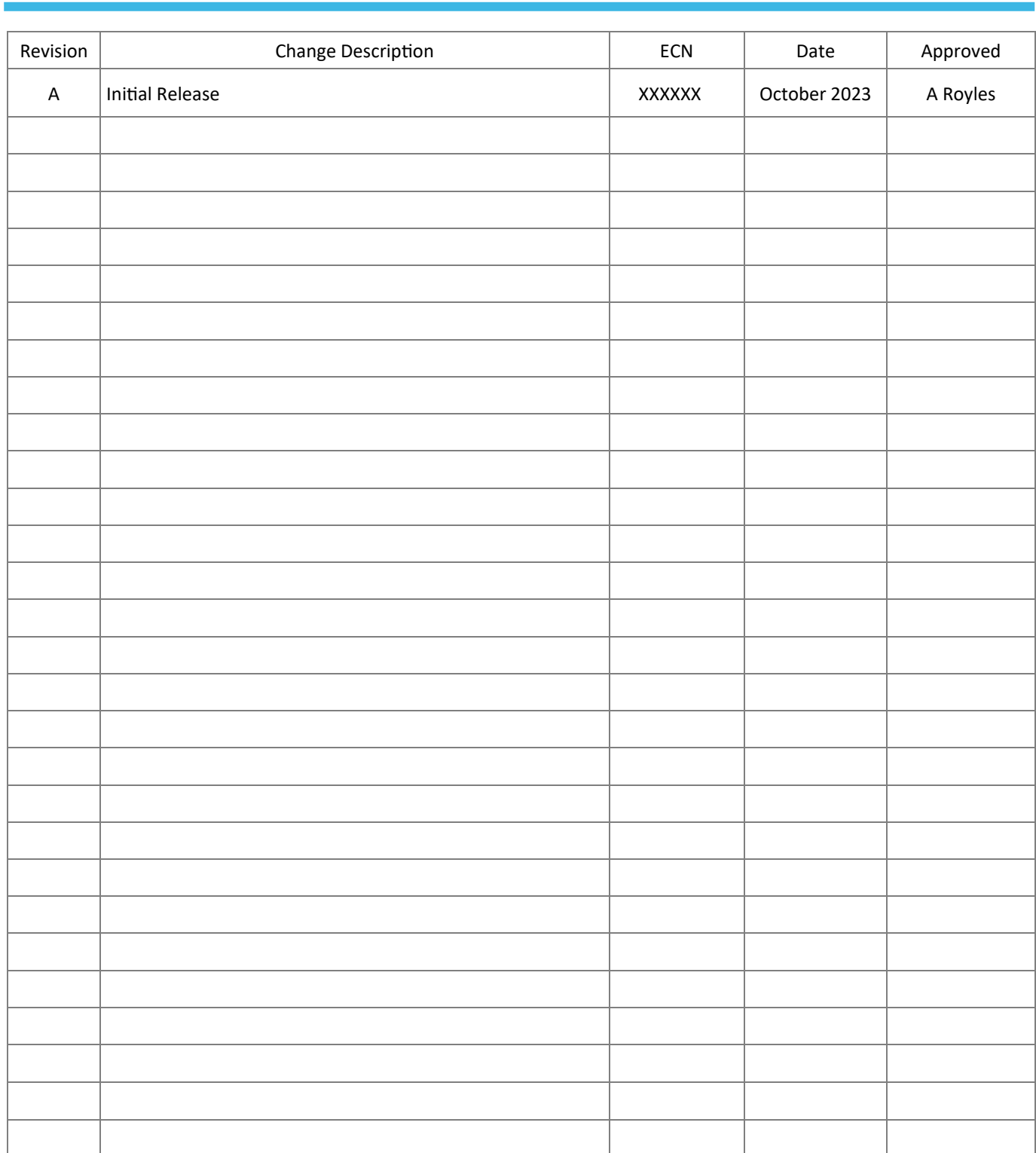


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