



LPCB Flow Meters Data Sheet



Firesure

- Flange and groove style connection.
- Simple and quickest to install.
- Horizontal or vertical pipe-lines.
- Most extensive flow ranges.



Firesure X

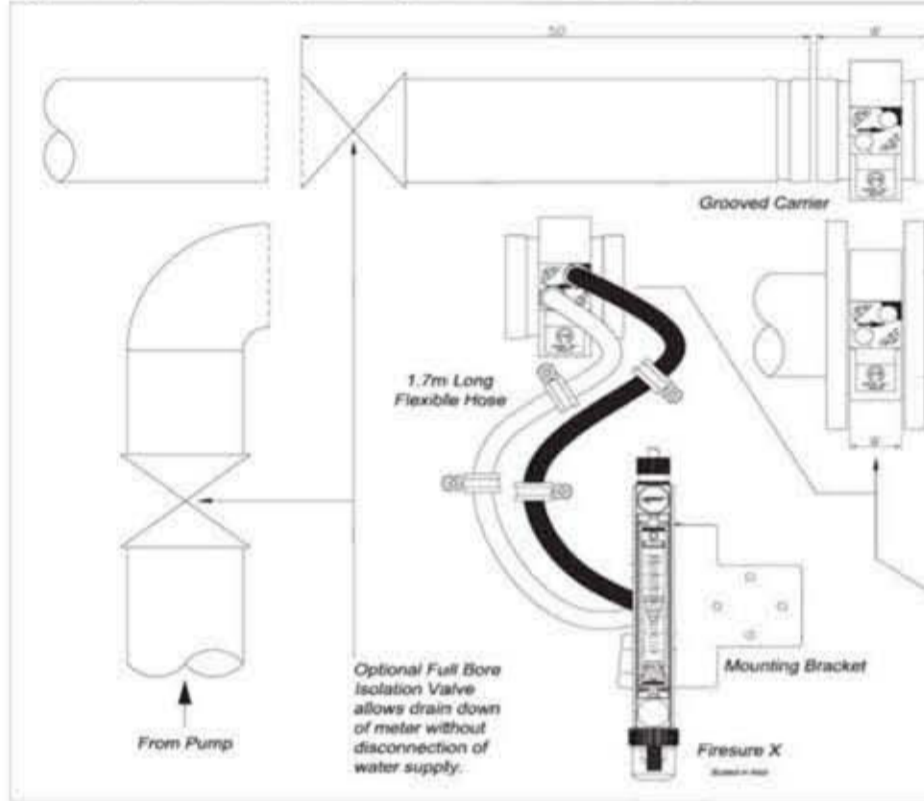
- Direct and remote indicator positioning options.
- Design flexibility to meet CDM regulations.
- Increased pressure rating.
- Remote indicator can be retrofitted.
- Certificated to LPS 1045

Size & connection	Firesure close coupled		Firesure X remote coupled.	
	dm ³ /min	LPCB ref.	dm ³ /min	LPCB ref.
50 Flange	150 to 700	464a/01	200 to 850	464a/11
80 Flange	300 to 1600	464a/02	200 to 1800	464a/12
100 Flange	500 to 3500	464a/03	400 to 4000	464a/13
150 Flange	900 to 7900	464a/04	1100 to 9500	464a/14
200 Flange	2000 to 15000	464a/05	2500 to 17000	464a/15
50 Groove	150 to 700	464a/06	200 to 850	464a/16
80 Groove	300 to 1600	464a/07	200 to 1800	464a/17
100 Groove	500 to 3500	464a/08	400 to 4000	464a/18
150 Groove	900 to 7900	464a/09	1100 to 9500	464a/19
200 Groove	2000 to 15000	464a/10	2500 to 17000	464a/20

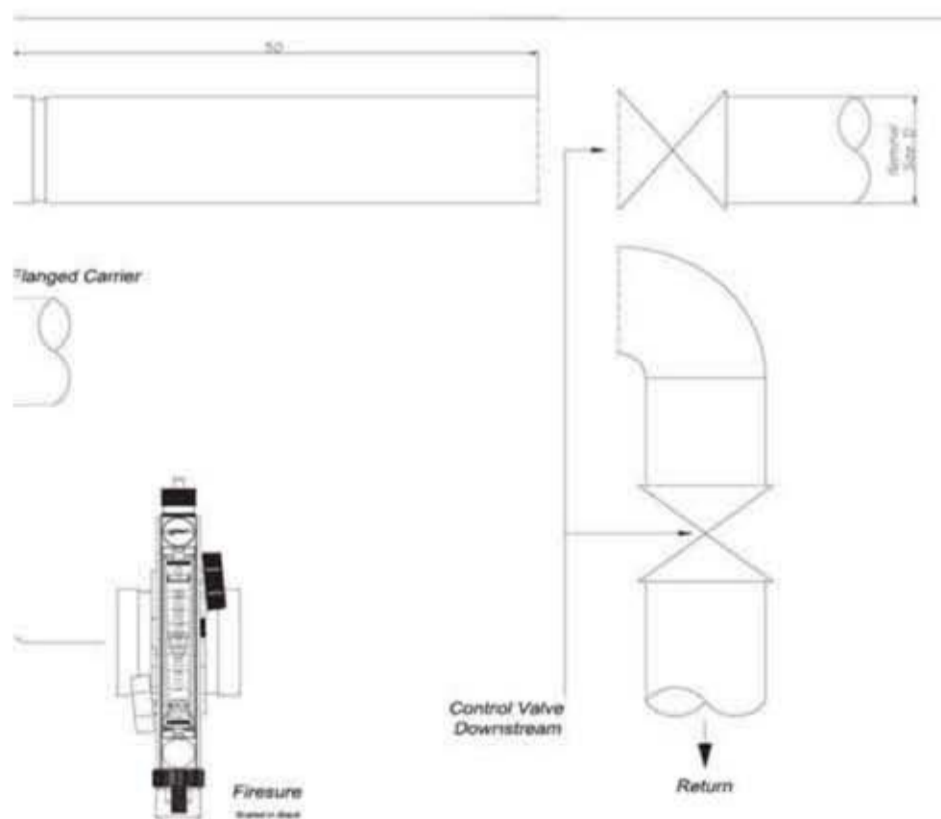


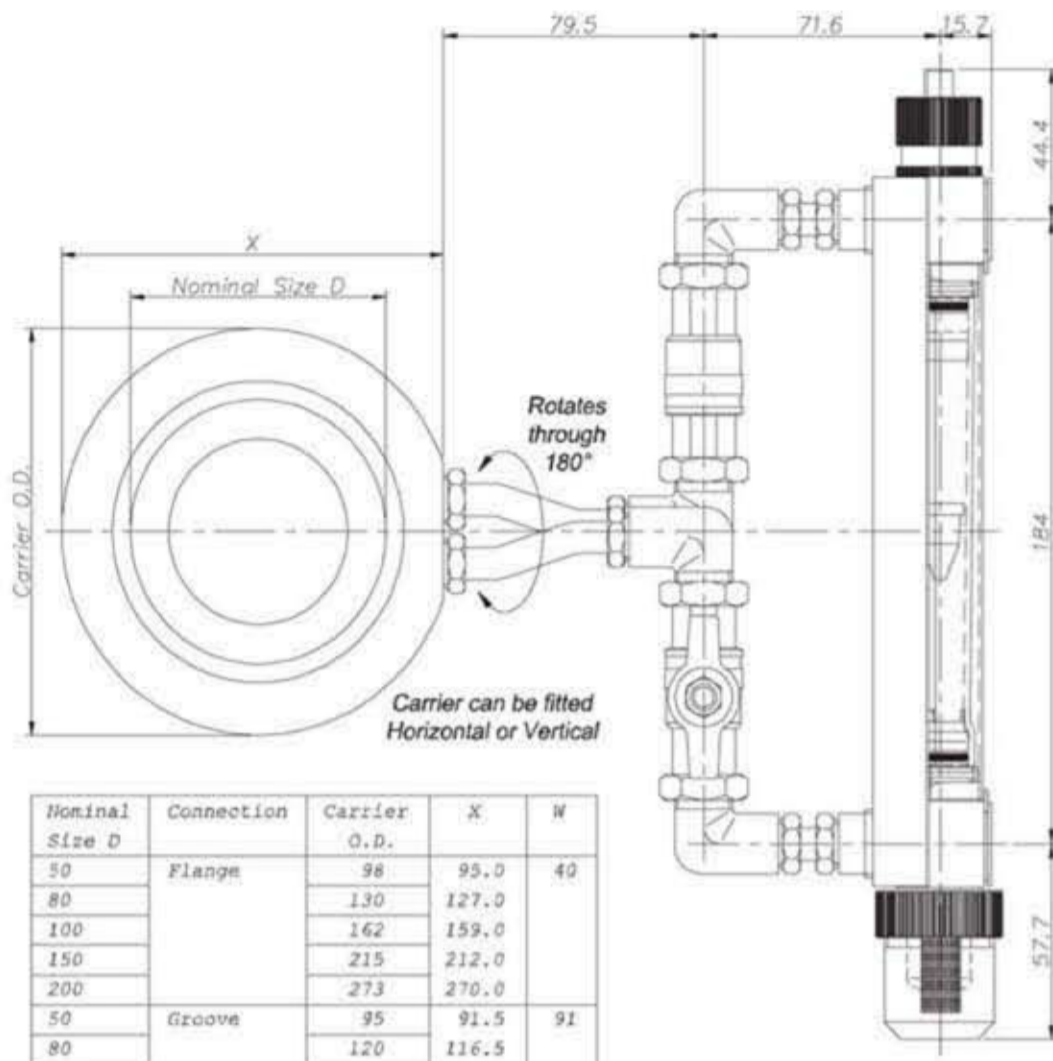
	Firesure*	Firesure X
Main orifice carrier	Flange and groove connection, 316SS orifice in polyester coated steel body	
Indicator assembly	Nickel plated brass valves and components, borosilicate glass flow tube and Viton seals. Polycarbonate filter bowl and stainless steel filter element.	
Indicator connectors	Direct coupled nickel plated copper tube.	1.7 metre colour coded hydraulic hoses and stainless steel hose clips.
Indicator mounting	Simple direct to main body	Galvanised steel bracket with 6mm fixing holes, compatible with Unistrut frame and pipe clip mounting options.
Safe Working Pressure	16 bar g (with x 2.5 safety factor.)	
Accuracy	5% of flow rate reading.	
* FIRESURE X RETROFIT PACKAGE: Existing Firesure installations can be converted to Firesure X by use of FSX01 or FSX02 retrofit package: .		

Typical Pipeline Configuration (Horizontal or Vertical):

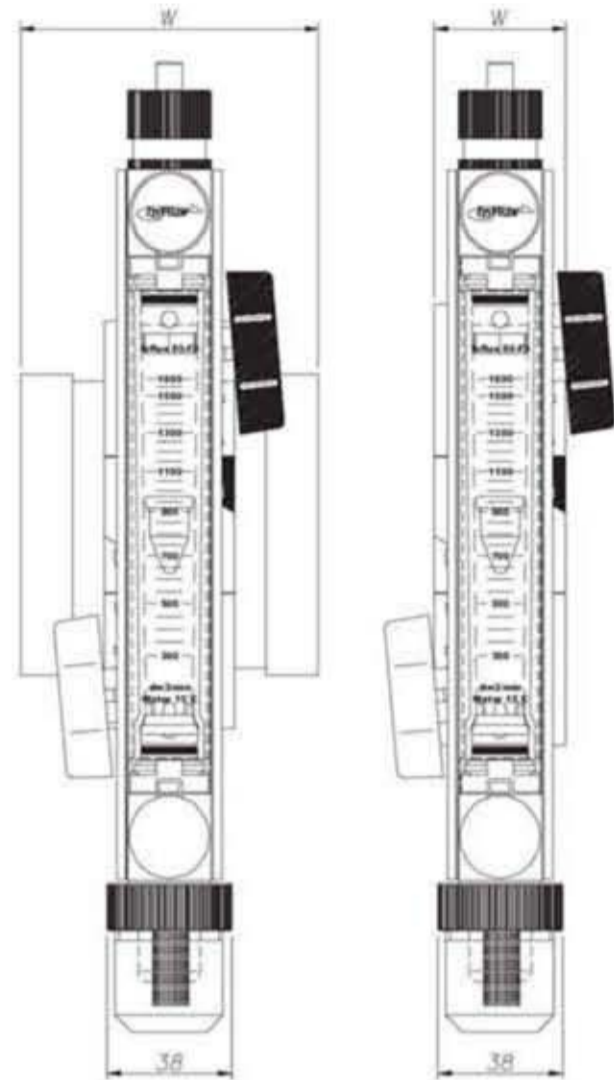


Size & Connection	LPCB Ref. No. & Order codes		Dimension W (mm)	Weight (kg)
	Firesure	Firesure X		
50 Flange	464a/01	464a/11	40	3.8
80 Flange	464a/02	464a/12	40	4.8
100 Flange	464a/03	464a/13	40	6.0
150 Flange	464a/04	464a/14	40	7.8
200 Flange	464a/05	464a/15	40	10.5
50 Groove	464a/06	464a/16	90	3.9
80 Groove	464a/07	464a/17	90	4.7
100 Groove	464a/08	464a/18	90	5.5
150 Groove	464a/09	464a/19	90	6.8
200 Groove	464a/10	464a/20	100	9.2





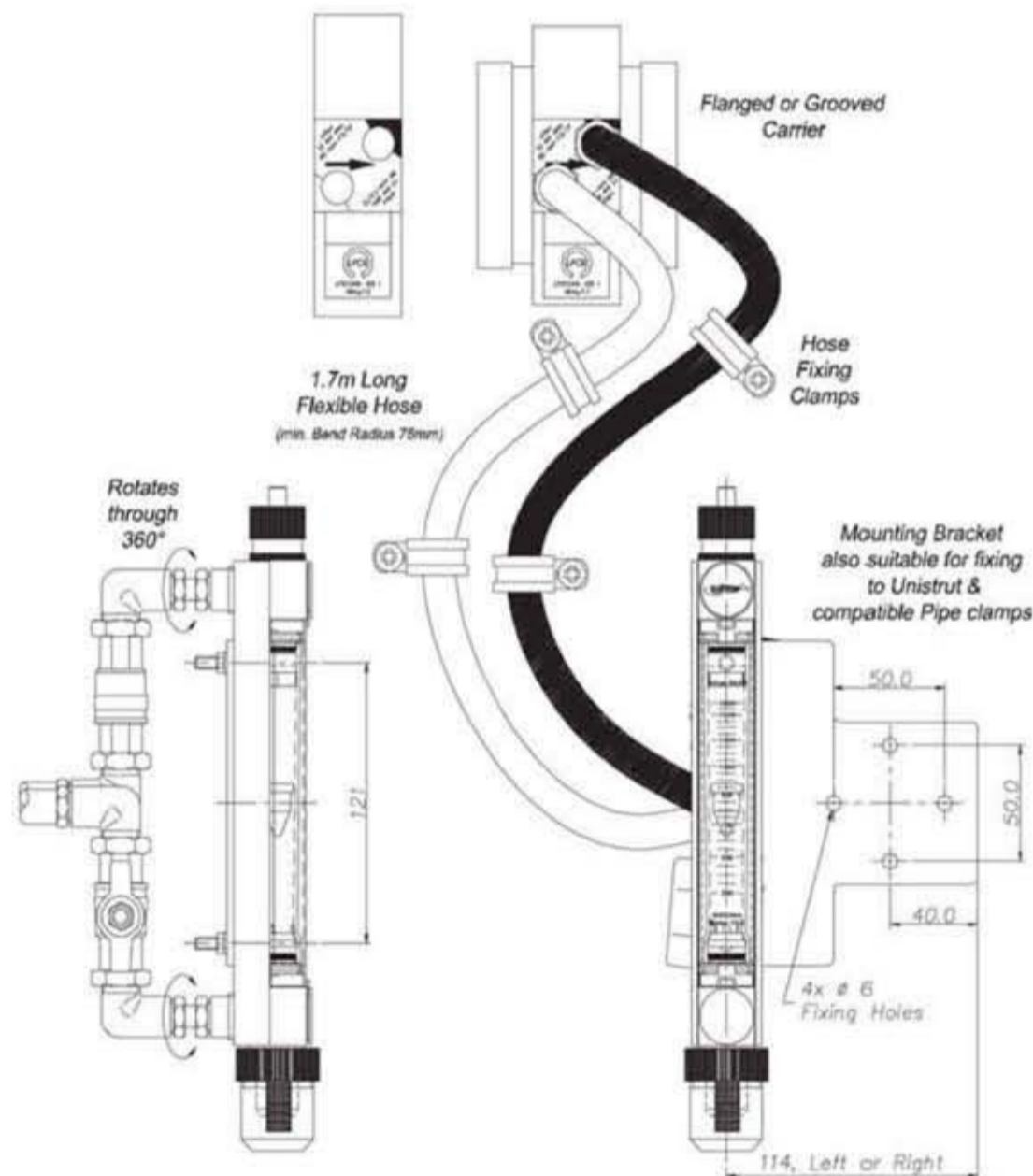
Nominal Size D	Connection	Carrier O.D.	X	W
50	Flange	98	95.0	40
80		130	127.0	
100		162	159.0	
150		215	212.0	
200		273	270.0	
50	Groove	95	91.5	91
80		120	116.5	
100		145	141.5	
150		195	191.5	
200		245	241.5	



Grooved Carrier

Flanged Carrier

Mounting Detail - Firesure X:





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Construction & Specification

Main Orifice Carrier	: 316 stainless steel flow orifice mounted in a polyester coated carbon steel carrier.
Bypass Flow Indicator	: Nickel-plated copper tubing and brass connections; Stainless steel elements; Borosilicate glass indicator tube; Polycarbonate filter bowl; Viton seals.
Pressure Test	: 30 bar hydraulic
Maximum Operating Temperature	: 90°C
Connections	: Fireflange - Between flanges Firegroove - Using approved groove couplings
	: Certificated to LPS1045. LPCB Ref. No. 464a/01-10
Accuracy	: ± 5% of flow reading
UKAS Flow Cert. No's	: 02635, 02636, 02637, 02638, 02639, 03099, 03100, 03101

Features & Benefits

LPCB Certification → Compliance with current standards

Flange and groove connection styles → Flexibility and speedier installation

Extended flow ranges → Covers all test requirements

Short installation run → Reduces construction costs

Simple and versatile bypass configuration → Reduced installation effort

Interchangeable flow tubes & restrictors → Low cost spares cover

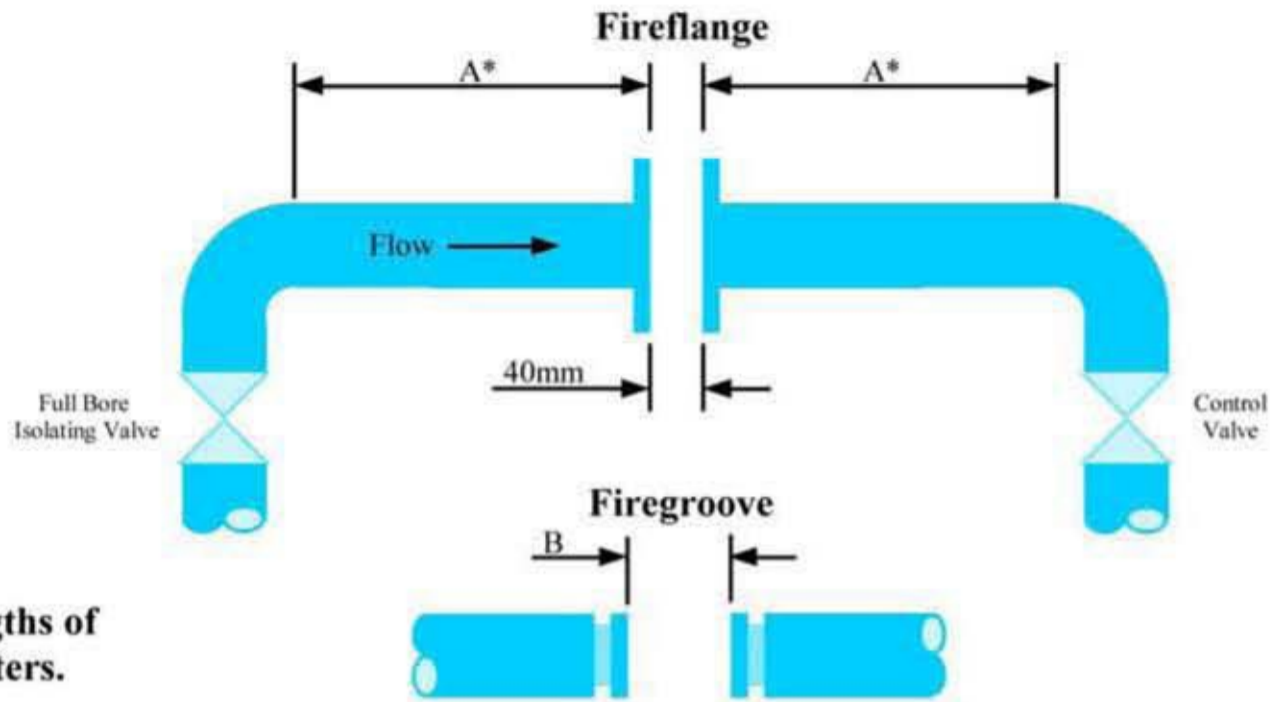
Ranges UKAS type tested → Traceability



For use on horizontal or vertical pipe work.

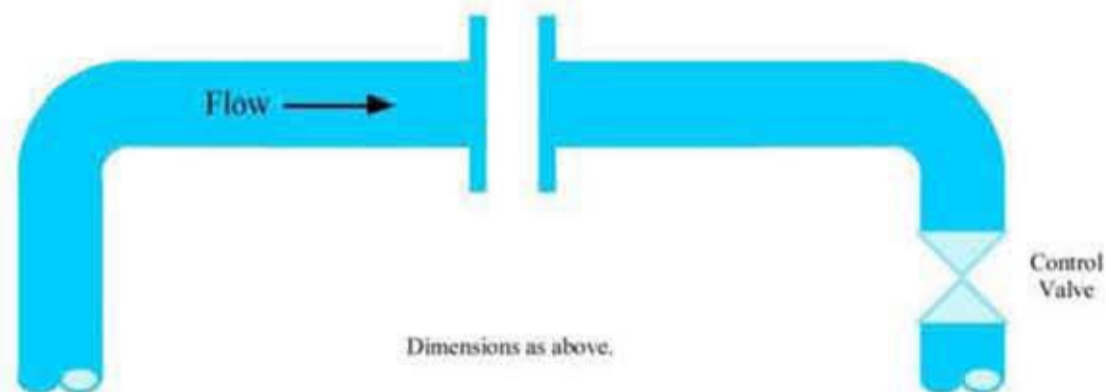
Size (mm)	A* (mm)	B (mm)	Pipe Spec.
50	250	90	BS1387
80	400	90	BS1387
100	500	90	BS1387
150	750	90	BS1387
200	1000	100	BS3600

* minimum required lengths of straight pipe = 5 diameters.



The preferred layout for most metering installations is shown above. It provides a means of isolating the meter for any servicing without disconnection of the water supply to the sprinkler installation. The water flow can be controlled using the downstream valve with the upstream isolation valve fully open.

This alternative configuration also allows water flow to be controlled using the downstream valve, but the meter section cannot be isolated. Therefore, any major servicing may require the water supply to be disconnected from the sprinkler installation.



Product Range & Ordering Codes

Size (mm) and Connection Type	Flow Range dm ³ /min	LPCB Ref. No/ Ordering Code
50 Fireflange	150 - 700	464a/01
80 Fireflange	300 - 1600	464a/02
100 Fireflange	500 - 3500	464a/03
150 Fireflange	900 - 7900	464a/04
200 Fireflange	2000 - 15000	464a/05
50 Firegroove	150 - 700	464a/06
80 Firegroove	300 - 1600	464a/07
100 Firegroove	500 - 3500	464a/08
150 Firegroove	900 - 7900	464a/09
200 Firegroove	2000 - 15000	464a/10