

Flow Monitors From Lake



General Description

Compact and rugged the flow meter is made from quality material Construction and measures approximately 167mm (7" l) to 182mm (7 1/2) in length, Suitable for permanent installation in lubrication, cooling irrigation or water treatment systems. This Solid metal body enables easy flow reading regardless of fluid condition I IE Fluid discoloration.

Note.

1. Monitors liquid flows up to 150 G/Min
2. Dual scale L/min amd (US gals /Min)
3. Pressures up to 6000 Psi (420 bar)
4. Temperatures up to 600 °F(315°C)
5. Can be mounted in any position
6. Good viscosity stability
7. No flow straighteners needed
8. Opaque or clear fluids

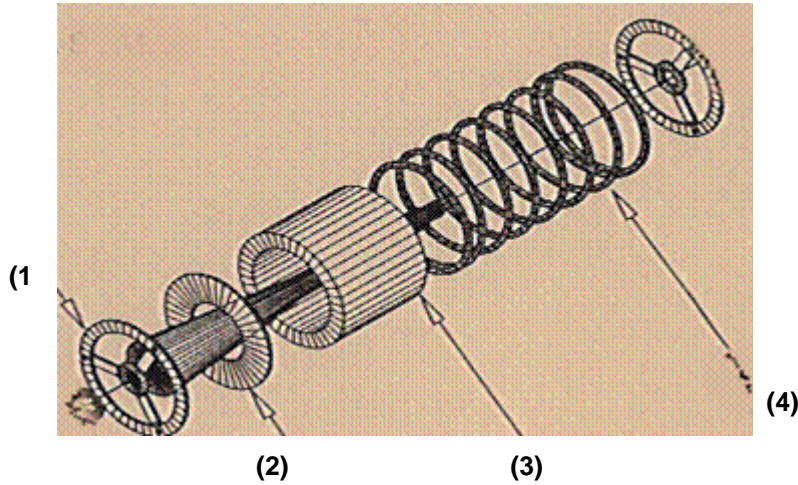
How to Order.

B3B 6WT 05

This is Basic flow meter Brass Body for water
1/2 Bsp Connections max pressure 3500 Psi
flow range 2 - 20 L/min

B	3	B	>	6	W	T	>	0.5
Model	Meter Size	Body Material	Pressure Rating	Media	Connection	Ranges		
B = Basic						01 = 5 L/m		
G = Pneumatic	3 = 1/4 > 1/2"	A = Alum	4 = 600 Psi	A = Air	T = 1/2" Bsp	02 = 8 L/m		
M = with switch	4 + 3/4 > 1"	B = Brass	6 = 3500Psi	W = Water	U = 3/4" Bsp	05 = 20L/m		
N = with 2 switches	5 = 1 1/4 > 1 1/2"	S = St St	7 = 6000Psi	H = Oil	V = 1" Bsp	10 = 35L/m		
T = Test unit					W = 1 1/4" Bsp	15 = 55L/m		
J = Hi Temp unit						20 = 75L/m		
						25 = 95L/m		
						30 = 110L/m		
						40 = 150L/m		
						50 = 200L/m		
						75 = 280L/m		

Sharp Edge Orifice Plate flow Meter



Internal cartridge

1. Guide Disk
2. Floating orifice disk
3. Transfer magnet
4. Return spring

$$F3 = \frac{1}{Sp Gr}$$

SG Correction factor = F3

Materials of construction	Aluminum brass, stainless steel, Lexen outer sleeve
Measuring accuracy	± 2.5% through middle 1/3 of scale 4% within full scale
Measuring repeatability	± 1% of Full scale
Maximum operating pressure	600 PSIG For Air & Gases/ liquids Aluminum and brass 3500Psi
Maximum operating temperature	120° C (250 °F) Standard on request up to 315°C (600 °F)
Minimum flow detection	0.5 l/min
Filtration required	Min 37 micron

Operating Theory

Enclosed in a high pressure casing a high strength magnet(3) in tandem with a sharp edge orifice disk (2) is pressed towards the zero flow position by a linear compression spring (4) a tapered metering pin is positioned concentrically within the annular orifice disk and provides a Variable area opening that increases by the square of linear displacement of the orifice disk. Fluid flow creates pressure differential across the orifice disk pressing the duo against the compression spring. Flow rate is read by aligning the magnetically coupled magnet follower with the graded scale located inside the lexen outer clear sleeve. This type of unit is also available with single or double switches or 4 - 20ma output

