



UK Flowtechnik

Specialists in flow metering, pumps, couplings
and process measurement equipment

PRODUCT DATASHEET



UK Flowtechnik Ltd
1 Central Park
Lenton Lane
Nottingham
NG7 2NR
United Kingdom

Phone +44 (0) 11 59 01 71 11
UK Free Phone 0800 4334 770
Fax +44 (0) 11 59 86 88 75

sales@ukflowtechnik.com
www.ukflowtechnik.com

B-BI Series Bi-Directional FlowMeter



The Bi-Directional Variable Area Flow Meter is a high performing oil and water meter available in aluminium, brass, or stainless steel to meet system requirements. It measures bi-directional flow of oils and water, such as in test kits and mobile hydraulic systems. The high pressure operation, multiple ports available, and unrestricted mounting make this flow meter versatile, customisable, and easy to install. The all metal pressure vessels provide a safe and reliable, performance.

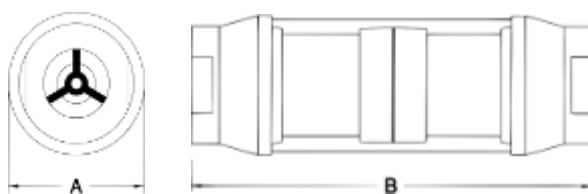
Features & Benefits

- Measurement in forward and reverse direction
- Linearity 4% of full scale
- Up to 414 Bar pressure rating
- Scales for water and oil
- Viscosity compensated up to 110 cSt
- Horizontal or vertical mounting

Technical Data

Body Material	Anodised Aluminium, Brass or 304 Stainless Steel
Orifice, Cone & Spring Material	Stainless Steel
Seals	Buna-N (EPDM, Viton or FFKM optional)
Window Material	Polycarbonate (Buna-N seal)
Linearity	+/- 4% FSD
Maximum Viscosity	110 cSt
Max Pressure (Bar)	241 Bar (Aluminium & Brass), 414 Bar (Stainless Steel)
Max Temperature (°C)	116°C

Dimensional Data



	Series 3	Series 4	Series 5	Series 5 (with 2" ports)
A	48	60	90	
B	167	182	258	322

Ordering Information

B	3	S	-	7	W	T	-	I5	-	BI
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Style

Basic In-line **B**

Meter Size Code (Inches)

1/4" to 1/2" **3**

3/4" to 1" **4**

1.1/4" to 2" **5**

Material

Aluminium **A**

Brass **B**

Stainless Steel **S**

Pressure rating

241 Bar (Aluminium & Brass) **6**

414 Bar (Stainless Steel) **7**

Fluid

Oil @ 0.873 SG **H**

Water @ 1.0 SG **W**

**Thread Type/
Porting female**

1/4" NPT	S 3 Only
3/8" NPT	A 3 Only
1/2" NPT	B 3 Only
3/4" NPT	C 4 Only
1" NPT	D 4 Only
#6 SAE	E 3 Only
#8 SAE	F 3 Only
#10 SAE	G 4 Only
#12 SAE	H 4 Only
#16 SAE	J 4 Only
1.1/4" NPT	K 5 Only
1.1/2" NPT	L 5 Only
2" NPT	M 5 Only
#20 SAE	N 5 Only
#24 SAE	P 5 Only
#32 SAE	Q 5 Only
1/4" BSPP	& 3 Only
3/8" BSPP	R 3 Only
1/2" BSPP	T 3 Only
3/4" BSPP	U 4 Only
1" BSPP	V 4 Only
1.1/4" BSPP	W 5 Only
1.1/2" BSPP	Y 5 Only
2" BSPP	X 5 Only

Style

Bi-Directional Flow **BI**

Flow Range l/min	For Sizes
2-19	05 3 Only
5-37.5	10 3 and 4
5-55	15 3 and 4
10-75	20 4 Only
15-115	30 4 Only
20-190	50 4 Only
30-280	75 5 Only
50-375	88 5 Only

Note: SAE porting not available in Brass. Consult factory for SAE brass meter requirements.