BASIC INLINE LIQUID VARIABLE AREA FLOW METER

Ideal for monitoring pump performance and media flows through hydraulic circuits and cooling systems.

PERFORMANCE

Measuring Accuracy
±2.0% of full scale

Repeatability
±1% of full scale

Flow Measuring Range
0.1–150 GPM (0.5–550 LPM)

Maximum Operating Pressure
Aluminum and brass meters: 3500 PSIG (240 Bar)
Stainless steel meters: 6000 PSIG (410 Bar)

Maximum Operating Temperature
240°F (116°C) Note: for operation to 600°F (316°C), see our High Temperature Data sheet.

Standard Calibration Fluids
Oil meters: DTE 25® @ 110°F (43°C), 0.873 sg
Water meters: tap water @ 70°F (21°C), 1.0 sg

Filtration Requirements
74 micron filter or 200 mesh screen minimum

**Accuracy is ±4% Full-scale across entire range for "BI" option. TE 25 is a registered trademark of Exxon Mobil.*

BENEFITS

Choice of Three Materials of Construction
Select from aluminum, brass or stainless steel to meet system and liquid requirements.

Unrestricted Mounting
Allows for horizontal, vertical or inverted installation and does not require straight plumbing on inlet or outlet.

Superior Exterior Design
Weather-tight for use outdoors and/or on systems where wash downs are required.

Rugged and Reliable
Designed as a hydraulic service tool, this monitor will provide years of maintenance-free performance.

High Pressure Operation
The magnetically coupled follower design allows operation to 6000 PSIG and use with liquids.

Many Different Ports Available
Standard selection of NPT, SAE and BSPP ports reduces the amount of adapters required for installation.

MATERIALS OF CONSTRUCTION (NON-WETTED COMPONENTS)

	Aluminum	Brass	Stainless Steel
Window Tube	Polycarbonate	Polycarbonate	Polycarbonate
Window Seals	Buna-N® (STD), PTFE	Buna-N® (STD), PTFE	Buna-N® (STD), PTFE

MATERIALS OF CONSTRUCTION (WETTED COMPONENTS)

	Aluminum	Brass	Stainless Steel
Casing & End Ports	Anodized Aluminum	Brass	Stainless Steel
Seals	Buna-N® (STD), EPR, FKM or FFKM	Buna-N® (STD), EPR, FKM or FFKM	FKM with PTFE backup (STD), Buna-N®, EPR or FFKM
Transfer Magnet	PTFE coated Alnico	PTFE coated Alnico	PTFE coated Alnico
All other internal parts	Stainless Steel	Stainless Steel	Stainless Steel

Buna-N is a registered trademark of Chemische Werke Huls.

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LAKE MONITORS

Unit 1 Oaktree Business Park, Philip Ford Way, Wymondham, Norfolk, NR18 9AQ

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PART NUMBER GUIDE

B □ □ — □ □ □ — □ □ □ □ — □ □ □ □

BASIC

PORT SIZE RANGE

1/4" – 1/2"	=	3
3/4" – 1"	=	4
1-1/4 – 2"	=	5

MATERIAL

Aluminum	=	A
Brass	=	B
Stainless Steel	=	S

MAX. PRESSURE RATING

3500 psig (liquids, aluminum & brass)	=	6
6000 psig (liquids, stainless steel)	=	7

FLUID MEDIA

Oil @ 0.873 specific gravity	=	H
Water @ 1.0 specific gravity	=	W

Note: For special scales consult the Lake factory.

PORTING/THREAD TYPE

(all female)	Size		
1/4" NPTF, dry seal	3 only	=	S
3/8" NPTF, dry seal	3 only	=	A
1/2" NPTF, dry seal	3 only	=	B
3/4" NPTF, dry seal	4 only	=	C
1" NPTF, dry seal	4 only	=	D
#6 SAE, O-ring seal	3 only	=	E
#8 SAE, O-ring seal	3 only	=	F
#10 SAE, O-ring seal	3 only	=	G
#12 SAE, O-ring seal	4 only	=	H
#16 SAE, O-ring seal	4 only	=	J
1-1/4" NPTF, dry seal	5 only	=	K
1-1/2" NPTF, dry seal	5 only	=	L
2" NPTF, dry seal	5 only	=	M
#20 SAE, O-ring seal	5 only	=	N
#24 SAE, O-ring seal	5 only	=	P
#32 SAE, O-ring seal	5 only	=	Q
1/4" BSPP	3 only	=	&
3/8" BSPP	3 only	=	R
1/2" BSPP	3 only	=	T
3/4" BSPP	4 only	=	U
1" BSPP	4 only	=	V
1-1/4" BSPP	5 only	=	W
1-1/2" BSPP	5 only	=	Y
2" BSPP	5 only	=	X

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

SPECIAL SCALE/CUSTOM PRODUCT

OPTIONAL FLOW DIRECTIONS

Standard Flow, Uni-Directional	=	□ □
Reverse Flow	=	R F
Bi-Directional Flow	=	B I

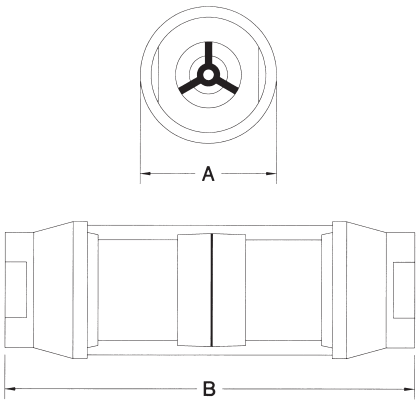
Note: Not all flow ranges are available with Bi-Directional option. Please consult factory for availability and delivery time.

FLOW RANGES

Liquid		Size		
0.1-1.0 GPM	0.5-4 LPM	3 only	=	0 1
0.2-2.0 GPM	1-8 LPM	3 & 4	=	0 2
0.5-5.0 GPM	2-19 LPM	3 & 4	=	0 5
1-10 GPM	5-37.5 LPM	3 & 4	=	1 0
1-15 GPM	5-55 LPM	3 & 4	=	1 5
2-20 GPM	10-75 LPM	4 only	=	2 0
2-25 GPM	10-95 LPM	4 & 5	=	2 5
4-30 GPM	15-115 LPM	4 only	=	3 0
4-40 GPM	20-150 LPM	4 only	=	4 0
6-50 GPM	20-190 LPM	4 only	=	5 0
6-75 GPM	30-280 LPM	5 only	=	7 5
10-100 GPM	50-375 LPM	5 only	=	8 8
25-150 GPM	100-550 LPM	5 only	=	9 9

MECHANICAL - SIZE CODE

DIM	Series 3	Series 4	Series 5	Series 5 (2" port only)
A	1-7/8" (48mm)	2-3/8" (60 mm)	3-1/2" (90mm)	3-1/2" (90mm)
B	6-9/16" (167mm)	7-5/32" (182mm)	10-1/8" (258mm)	12-5/8" (322mm)



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LAKE MONITORS

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