# **BI-DIRECTIONAL VARIABLE AREA FLOW METER**

Ideal for monitoring pump performance as well as measuring fluids in hydraulic circuits and cooling systems where flow is measured in both directions.



## **TECHNICAL SPECIFICATIONS**

# Measuring Accuracy

±4.0% of full scale

#### Repeatability

±1% of full scale

# Flow Measuring Range

0.5-100 GPM (2-350 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.

DTE 25 is a registered trademark of Exxon Mobil.

# Standard Calibration Fluids

Oil meters: DTE 25® @ 110°F (43°C),

Water meters: tap water @ 70°F

(21°C), 1.0 sg

### Filtration Requirements

74 micron filter or 200 mesh screen minimum

#### Viscosity

Viscosities up to 110 cSt

# **BENEFITS**

#### Choice of Materials

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.

#### Bi-Directional

Measures bi-directional flow measurement for liquids.

#### Rugged and Reliable

These meters are constructed with all metal pressure vessels that allow safe & permanent installation.

#### **High Pressure Operation**

The magnetically coupled follower design allows operation to 6000 PSIG.

#### Multiple 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 <sup>®</sup> (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

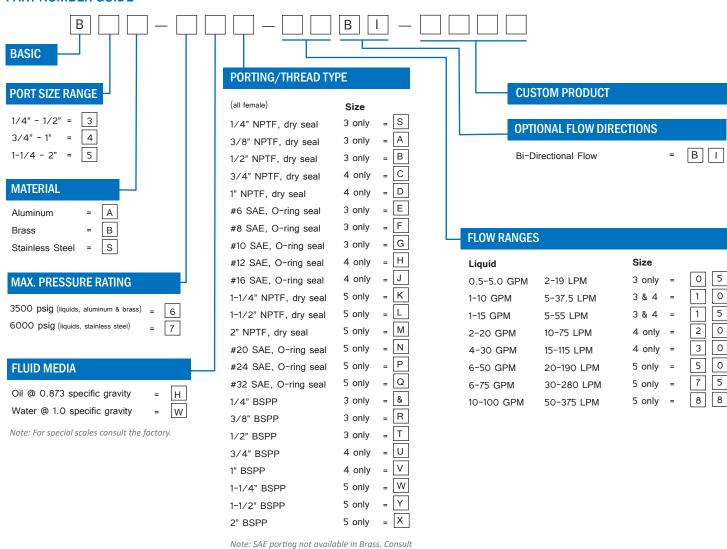
Buna-N is a registered trademark of Chemische Werke Huls.



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# **MECHANICAL - SIZE CODE**

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

factory for SAE brass meter requirements.

Products may be subject to change without notice - Contact factory for the most up-to-date product information.

