Lake Monitors Pneumatic Flow Rate Monitors

FOR 1/8" - 2" PIPE SIZES

2 111 2

STYLE G

Ideal for monitoring air compressor outputs, pneumatic tool air consumption and industrial gas flows.

CHOICE OF THREE MATERIALS OF CONSTRUCTION

Select from aluminum, brass or stainless steel to meet system and media compatibility requirements.

UNRESTRICTED MOUNTING

Allows the designer to install the monitor in any orientation — horizontal, vertical or inverted.

SUPERIOR EXTERIOR DESIGN

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

RUGGED AND RELIABLE

These monitors are constructed with all metal pressure vessels, allowing safe, permanent installation in industrial systems.



HIGH PRESSURE OPERATION

The magnetically coupled follower and rigid pressure vessel design allows operation to 1000 PSIG.

24 DIFFERENT PORTS AVAILABLE

Standard selection of NPT, SAE and BSP ports reduces the amount of adapters required for installation.

LOW COST ACCURACY

±2.5% of range accuracy in center third of scale; ±4% in upper and lower thirds

BI-DIRECTIONAL AND REVERSE FLOW OPTION OFFERED

Pneumatic monitors are also available in bi-directional and reverse flow versions.

ENGINEERING SPECIFICATION

THE PNEUMATIC IN-LINE FLOW RATE MONITOR SHALL:

- Use the variable annular orifice technique with compression spring recoil.
- Not require inlet or outlet straight plumbing, or require vertical pipe mounting.
- Have a measuring accuracy of ±2.5% of full scale in the center third of the measuring range, and ±4% in upper and lower thirds.
- Have a stainless steel sharp-edged orifice.
- Have a weather-tight external construction.
- Be Lake Monitors No. G _ _ _ _ _ _



Pneumatic Flow Rate Monitors

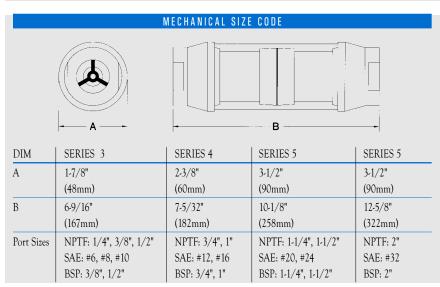
MATERIALS OF CONSTRUCTION (WETTED COMPONENTS)				
	ALUMINUM	BRASS	STAINLESS STEEL	
High-pressure casing, end ports and tapered shaft	Aluminum	Brass	#303 Stainless Steel	
Seals	Buna-N® (STD), EPR, FKM or FFKM	Buna-N® (STD), EPR, FKM or FFKM	FKM with PTFE backup (STD), Buna-N®, EPR or FFKM	
Transfer Magnet	PTFE coated Alnico	PTFE coated Alnico	PTFE coated Alnico	
Floating Orifice Disk	Stainless Steel	Stainless Steel	Stainless Steel	
All other internal parts	Stainless Steel	Stainless Steel	Stainless Steel	

Buna-N is a registered trademark of Chemishce Werke Huls

MATERIALS OF CONSTRUCTION (NON-WETTED COMPONENTS)				
	ALUMINUM	BRASS	STAINLESS STEEL	
Window Tube	Polycarbonate (STD)	Polycarbonate (STD)	Polycarbonate (STD)	
	Pyrex®	Pyrex®	Pyrex®	
Window Seals	Buna-N® (STD), PTFE	Buna-N® (STD), PTFE	Buna-N® (STD), PTFE	

Pyrex is a registered trademark of Corning Incorporated

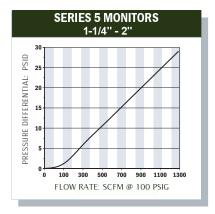
	PERFORMANCE
Measuring accuracy:	±2.5% of full-scale in the center third of the measuring range; ±4% in upper and lower thirds
Repeatability:	±1% of full-scale
Flow measuring range:	1.5-1300 SCFM @ 100 PSIG (1-610 LPS)
Pressure differential:	See graphs on the right for typical pressure differentials. For specific differential information, refer to Lake data sheet PDDS404.
Maximum operating pressure:	aluminum and brass monitors: 600 PSIG (40 Bar) stainless steel monitors: 1000 PSIG (70 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:	Air @ 70°F (21°C), 1.0 sg and 100 PSIG (6.8 Bar)
Filtration requirements:	74 micron filter or 200 mesh screen minimum

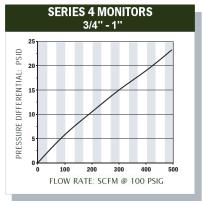


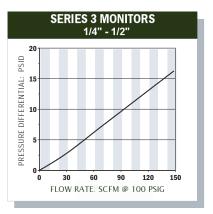
Note: Consult factory for SAE brass monitor requirements.

TYPICAL PRESSURE DIFFERENTIALS

For specific differential graphs, refer to Lake data sheet PDDS-404.









www.lakemonitors.com

AW-LAKE COMPANY INC. A TASI Group Company 8809 Industrial Dr., Franksville, WI 53126 262.884.9800 / Fax: 262.884.9805 800.850.6110

PNDS-1006 7.5M MR / WGD / MAS $^{\odot}$ Lake Monitors Inc. 2006