

PHOSPHATE ESTER FLOW METERS

Compatible with aviation lubricants such as Skydrol®, and fire-retardant fluids such as Pydraul®, Fyrquil® and Houghton 900 series.



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.

Multi-Use

Factory calibrated for phosphate esters, these versatile monitors can be used to verify hydraulic power unit outputs, as well as test machinery and tools for proper fluid flow rates.

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.

Multiple Ports Available

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

TECHNICAL SPECIFICATIONS

Measuring Accuracy
±2.0% of full scale

Repeatability
±1% of full scale

Flow Measuring Range
0.1-130 GPM (0.5 - 490 LPM)

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

Maximum Operating Temperature
240°F (116°C)

Standard Calibration Fluids
Tap water @ 70°F (21°C) 1.0 s.g.
Monitors are density corrected to 1.145 sg

Filtration Requirements
74 micron filter or 200 mesh screen minimum

MATERIALS OF CONSTRUCTION (NON-WETTED COMPONENTS)

	Aluminum	Brass	Stainless Steel
Window Tube	Pyrex®	Pyrex®	Pyrex®
Window Seals	PTFE	PTFE	PTFE

Pyrex is a registered trademark of Corning Incorporated.

MATERIALS OF CONSTRUCTION (WETTED COMPONENTS)

	Aluminum	Brass	Stainless Steel
Casing & End Ports	Anodized Aluminum	Brass	Stainless Steel
Seals			
H-Series (400°F)	FKM w/ PTFE backup	FKM w/ PTFE backup	FKM w/ PTFE backup
J-Series (600°F)	FFKM w/ PTFE backup	FFKM w/ PTFE backup	FFKM w/ PTFE backup
Transfer Magnet	PTFE coated Alnico	PTFE coated Alnico	PTFE coated Alnico
All other internal parts	Stainless Steel	Stainless Steel	Stainless Steel

Distributed in the UK by Premier Control Technologies Ltd



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PART NUMBER GUIDE

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PHOSPHATE ESTER

PORT SIZE RANGE

1/4" - 1/2" =

3/4" - 1" =

1-1/4" - 2" =

MATERIAL

Aluminum =

Brass =

Stainless Steel =

MAX. PRESSURE RATING

3500 psig (liquids, aluminum & brass) =

6000 psig (liquids, stainless steel) =

FLUID MEDIA

Phosphate Ester at 1.14505 specific gravity =

PORTING/THREAD TYPE

(all female)

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

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

SPECIAL SCALE/CUSTOM PRODUCT

OPTIONAL FLOW DIRECTIONS

Standard Flow, Uni-Directional =

Reverse Flow =

Bi-Directional Flow =

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-.95 GPM	0.5-3.75 LPM	3 only = <input type="text" value="0"/> <input type="text" value="1"/>
0.2-1.8 GPM	1.0-7.0 LPM	3 & 4 = <input type="text" value="0"/> <input type="text" value="2"/>
0.5-4.5 GPM	2.0-17.0 LPM	3 & 4 = <input type="text" value="0"/> <input type="text" value="5"/>
1-9.5 GPM	3.0-35.0 LPM	3 & 4 = <input type="text" value="1"/> <input type="text" value="0"/>
1-14 GPM	4.0-52.0 LPM	3 & 4 = <input type="text" value="1"/> <input type="text" value="5"/>
2-19 GPM	5.0-70.0 LPM	4 only = <input type="text" value="2"/> <input type="text" value="0"/>
2-22 GPM	10.0-85.0 LPM	4 & 5 = <input type="text" value="2"/> <input type="text" value="5"/>
3-28 GPM	10.0-105.0 LPM	4 only = <input type="text" value="3"/> <input type="text" value="0"/>
6-35 GPM	15.0-135.0 LPM	4 only = <input type="text" value="4"/> <input type="text" value="0"/>
6-46 GPM	25.0-175.0 LPM	4 only = <input type="text" value="5"/> <input type="text" value="0"/>
6-69 GPM	20.0-180.0 LPM	5 only = <input type="text" value="7"/> <input type="text" value="5"/>
10-90 GPM	50-350 LPM	5 only = <input type="text" value="8"/> <input type="text" value="8"/>
20-130 GPM	100-500 LPM	5 only = <input type="text" value="9"/> <input type="text" value="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)

