

PHOSPHATE ESTER FLOW METERS

Phosphate Ester Flow Meter is compatible with aviation lubricants such as Skydrol®, and fire-retardant fluids such as Pydraul®, Fyrquil® and Houghton 900 series. Meters are density corrected to 1.145 sg.



TECHNICAL SPECIFICATIONS

Measuring Accuracy

±2.0% of full scale

Repeatability

±1% of full scale

Flow Measuring Range

0.1-130 GPM (0.5 – 500 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)

Standard Calibration Fluids

Tap water @ 70°F (21°C) 1.0 s.g.

Meters are density corrected to 1.145 sg

Filtration Requirements

74 micron filter or 200 mesh screen minimum

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 meters can be used to verify hydraulic power unit outputs, as well as test machinery and tools for proper fluid flow rates.

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 and use with liquids.

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	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	ERP with PTFE backup FKM or FFKM optional		
Transfer Magnet	PTFE coated Alnico	PTFE coated Alnico	PTFE coated Alnico
All other internal parts	Stainless Steel	Stainless Steel	Stainless Steel

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PART NUMBER GUIDE

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PHOSPHATE ESTER

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

Phosphate Ester at 1.145 specific gravity = W

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 = 8
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

SPECIAL SCALE/CUSTOM PRODUCT

OPTIONAL FLOW DIRECTIONS

Standard Flow, Uni-Directional =
Reverse Flow = R F

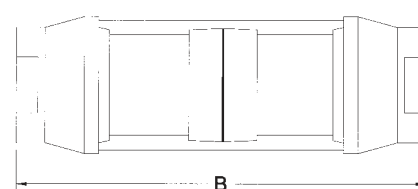
FLOW RANGES

Liquid		Size
0.1-.95 GPM	0.5-3.75 LPM	3 only = 0 1
0.2-1.8 GPM	1.0-7.0 LPM	3 & 4 = 0 2
0.5-4.5 GPM	2.0-17.0 LPM	3 & 4 = 0 5
1-9.5 GPM	3.0-35.0 LPM	3 & 4 = 1 0
1-14 GPM	4.0-52.0 LPM	3 & 4 = 1 5
2-19 GPM	5.0-70.0 LPM	4 only = 2 0
2-22 GPM	10.0-85.0 LPM	4 & 5 = 2 5
3-28 GPM	10.0-105.0 LPM	4 only = 3 0
6-35 GPM	15.0-135.0 LPM	4 only = 4 0
6-46 GPM	25.0-175.0 LPM	4 only = 5 0
6-69 GPM	20.0-180.0 LPM	5 only = 7 5
10-90 GPM	50-350 LPM	5 only = 8 8
20-130 GPM	100-500 LPM	5 only = 9 9

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

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)



End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste**. We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations**. Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001**.

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