

PHOSPHATE ESTER FLOW METERS



TECHNICAL SPECIFICATIONS

Measuring Accuracy
±2.0% of full scale

Repeatability
±1% of full scale

Flow Measuring Range
0.5 – 500 LPM

Maximum Operating Pressure
Aluminium and brass meters:
240 Bar
Stainless steel meters: 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

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)

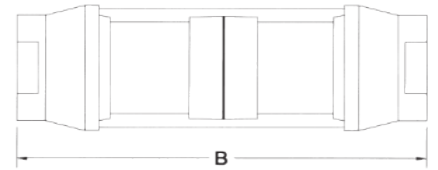
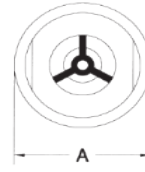
| | Aluminum | Brass | Stainless Steel |
|--------------|----------|--------|-----------------|
| Window Tube | Pyrex® | Pyrex® | Pyrex® |
| Window Seals | PTFE | PTFE | PTFE |

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 |

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) |



Part Number Guide

P - - -

Phosphate Ester

Port Size

1/4" - 1/2" = 3

3/4" - 1" = 4

1-1/4 - 2" = 5

Material

Aluminum = A

Brass = B

Stainless Steel = S

Maximum Pressure

241 Bar (liquids, aluminum & brass) = 6

414 Bar (liquids, stainless steel) = 7

Fluid Media

Phosphate Ester at 1.145 SG = W

Porting/Thread Type

(all female)

| | Size | |
|----------------------|--------|---|
| 1/4" NPTF | 3 only | = S |
| 3/8" NPTF | 3 only | = A |
| 1/2" NPTF | 3 only | = B |
| 3/4" NPTF | 4 only | = C |
| 1" NPTF | 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 | 5 only | = K |
| 1-1/2" NPTF | 5 only | = L |
| 2" NPTF | 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 |

Special Scale/Custom Product

Optional Flow Directions

Standard Flow, Uni-Directional =

Reverse Flow = R F

Flow Ranges

| Phosphate Ester | Size | |
|-----------------|--------|---|
| 0.5-4 LPM | 3 only | = 0 1 |
| 1-8 LPM | 3 & 4 | = 0 2 |
| 2-19 LPM | 3 & 4 | = 0 5 |
| 5-37.5 LPM | 3 & 4 | = 1 0 |
| 5-55 LPM | 3 & 4 | = 1 5 |
| 10-75 LPM | 4 only | = 2 0 |
| 10-95 LPM | 4 & 5 | = 2 5 |
| 15-115 LPM | 4 only | = 3 0 |
| 20-150 LPM | 4 only | = 4 0 |
| 20-190 LPM | 4 only | = 5 0 |
| 30-280 LPM | 5 only | = 7 5 |
| 50-375 LPM | 5 only | = 8 8 |
| 100-550 LPM | 5 only | = 9 9 |

Note: SAE porting not available in Brass.