HIGH TEMPERATURE FLOW METER

High Temperature Flow Meter enables flow monitoring of barrel heating fluids, thermal transfer fluids such as Syltherm® coolant flows, hydraulic circuits and sub-circuits.

TECHNICAL SPECIFICATIONS

- **Measuring Accuracy**: ±2.0% of full scale
- **Repeatability**: ±1% of full scale
- **Flow Measuring Range**: 0.1-150 GPM (0.4–560 LPM)
- **Maximum Operating Pressure**
  - **Liquids**: Aluminum and brass meters: 3500 PSIG (240 Bar), Stainless steel meters: 6000 PSIG (410 Bar)
  - **Air/Gas**: Aluminum and brass meters: 600 PSIG (40 Bar), Stainless steel meters: 1000 PSIG (69 Bar)

Maximum Operating Temperature
- **H-Series**: 400°F (204°C)
- **J-Series**: 600°F (315°C)

Standard Calibration Fluids
- Oil meters: DTE 25® @ 110°F (43°C), 0.873 sg
- Water meters: water @ 70°F (21°C), 1.0 sg
- Air meters: air @ 70°F (21°C), 1.0 sg & 100 PSIG (6.8 bar)

Filtration Requirements
- 74 micron filter or 200 mesh screen minimum

Viscosity
- Standard viscosities up to 110 cSt. For viscosities between 110 to 430 cSt contact factory.

MATERIALS OF CONSTRUCTION (NON-WETTED COMPONENTS)

<table>
<thead>
<tr>
<th></th>
<th>Aluminum</th>
<th>Brass</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window Tube</td>
<td>Pyrex®</td>
<td>Pyrex®</td>
<td>Pyrex®</td>
</tr>
<tr>
<td>Window Seals</td>
<td>PTFE</td>
<td>PTFE</td>
<td>PTFE</td>
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</table>

Pyrex is a registered trademark of Corning Incorporated.

MATERIALS OF CONSTRUCTION (WETTED COMPONENTS)

<table>
<thead>
<tr>
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<th>Aluminum</th>
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<th>Stainless Steel</th>
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<tbody>
<tr>
<td>Casing and End</td>
<td>Anodized</td>
<td>Brass</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Ports</td>
<td>Aluminum</td>
<td></td>
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<tr>
<td>Seals</td>
<td>H-Series (400°F) FKM w/ PTFE backup</td>
<td>FKM w/ PTFE backup</td>
<td>FKM w/ PTFE backup</td>
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<tr>
<td></td>
<td>J-Series (600°F) FFKM w/ PTFE backup</td>
<td>FFKM w/ PTFE backup</td>
<td>FFKM w/ PTFE backup</td>
</tr>
<tr>
<td>Transfer Magnet</td>
<td>PTFE coated Alnico</td>
<td>PTFE coated Alnico</td>
<td>PTFE coated Alnico</td>
</tr>
<tr>
<td>All other</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>internal parts</td>
<td></td>
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</table>

MECHANICAL - SIZE CODE

<table>
<thead>
<tr>
<th>DIM</th>
<th>Series 3</th>
<th>Series 4</th>
<th>Series 5</th>
<th>Series 5 (2” port only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1-7/8” (48mm)</td>
<td>2-3/8” (60mm)</td>
<td>3-1/2” (90mm)</td>
<td>3-1/2” (90mm)</td>
</tr>
<tr>
<td>B</td>
<td>6-9/16” (167 mm)</td>
<td>7-5/32” (182mm)</td>
<td>10-1/8” (258mm)</td>
<td>12-5/8” (322mm)</td>
</tr>
</tbody>
</table>

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

Unrestricted Mounting
Allows for horizontal, vertical or inverted installation and does not require straight plumbing on inlet or outlet.

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

Bi-Directional and Reverse Flow Option Offered
High temperature monitors are also available in bidirectional and reverse flow versions. Contact the factory for more information.
HIGH TEMPERATURE FLOW Meters

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PART NUMBER GUIDE

METER STYLE
400°F In-line = H
600°F In-line = J

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
600 psig (air/gas, stainless steel) = 4
1000 psig (air/gas, aluminum & brass) = 5
3500 psig (liquids, aluminum & brass) = 6
6000 psig (liquids, stainless steel) = 7

FLUID MEDIA
Air & Gases = A
Oil & 0.873 specific gravity = H
Water & 1.0 specific gravity = W

PORTING/THREAD TYPE
(all female)
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 = R
3/8” BSPP 3 only = T
1/2” BSPP 4 only = U
3/4” BSPP 4 only = V
1” BSPP 4 only = W
1-1/4” BSPP 5 only = Y
1-1/2” BSPP 5 only = X

FLOW RANGES

FLOW METER OPTIONS

SPECIAL SCALE/CUSTOM PRODUCT

OPTIONAL FLOW DIRECTIONS

STANDARD FLOW, UNIDIRECTIONAL

REVERSE FLOW

BI-DIRECTIONAL FLOW
Not available in Brass. Consult factory for SAE brass monitor requirements.

Note: See bi-directional datasheet for available bi-directional ranges.

TEMPERATURE DE-RATING FOR ALUMINUM & BRASS METERS

AIR & GAS

LIQUID

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