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 Pressure¹

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.

¹Note: See Temperature/Pressure De-rating Chart on back. DTE 25 is a registered trademark of Exxon Mobil.

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.

Choice of Materials

BENEFITS

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

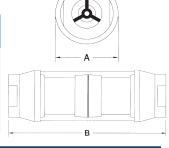
High temperature monitors are also available in bidirectional and reverse flow versions. Contact the factory for more information.

MATERIALS OF CONSTRUCTION (WETTED COMPONENTS)

	Aluminum	Brass	Stainless Steel
Casing and End Ports	Anodized Aluminum	Brass	Stainless Steel
Seals H-Series (400°F) J-Series (600°F)	FKM w/ PTFE backup FFKM w/ PTFE backup	FKM w/ PTFE backup FFKM w/ PTFE backup	FKM 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

MECHANICAL - SIZE CODE

DIM	Series 3	Series 4	Series 5	Series 5 (2" port only)
Α	1-7/8"	2-3/8"	3-1/2"	3-1/2"
	(48mm)	(60mm)	(90mm)	(90mm)
В	6-9/16"	7-5/32"	10-1/8"	12-5/8"
	(167 mm)	(182mm)	(258mm)	(322mm)





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PART NUMBER GUIDE **METER STYLE PORTING/THREAD TYPE** 400°F In-line = H SPECIAL SCALE/CUSTOM PRODUCT (all female) Size 600°F In-line = J 3 only = S 1/4" NPTF, dry seal Α 3/8" NPTF, dry seal OPTIONAL FLOW DIRECTIONS 3 only **PORT SIZE RANGE** В 1/2" NPTF, dry seal 3 only Standard Flow, Uni-Directional С 4 only 3/4" NPTF, dry seal 1/4" - 1/2" R F Reverse Flow 4 only D 1" NPTF, dry seal 3/4" - 1" 4 Bi-Directional Flow В I Ε #6 SAE, O-ring seal 3 only 5 1-1/4 - 2" Note: See bi-directional datasheet for available F #8 SAE, O-ring seal 3 only bi-directional ranges. G #10 SAE, O-ring seal 3 only **MATERIAL** Н #12 SAE, O-ring seal 4 only **FLOW RANGES** Α Aluminum 4 only #16 SAE, O-ring seal Size Liquid Air В **Brass** Κ 1-1/4" NPTF, dry seal 5 only 0 0.1-1.0 GPM 2-12 SCFM 3 only S Stainless Steel = 5 only 1-1/2" NPTF, dry seal 0 2 0.2-2.0 GPM 4-23 SCFM 3 & 4 M 5 only 2" NPTF, dry seal 0 5 5-50 SCFM 0.5-5.0 GPM 3 & 4 MAX. PRESSURE RATING 5 only Ν #20 SAE, O-ring seal 0 1-10 GPM 10-100 SCFM 3 & 4 Р #24 SAE, O-ring seal 5 only 1 5 1-15 GPM 25-150 SCFM 3 & 4 600 psig (air/gas, aluminum & brass) 4 5 only Q #32 SAE, O-ring seal 2 0 2-20 GPM 20-215 SCFM 4 only 5 1000 psig (air/gas, stainless steel) & 3 only 1/4" BSPP 5 2-25 GPM 20-250 SCFM 2 3500 psig (liquids, aluminum & brass) 6 4 & 5 R 3 only 3/8" BSPP 3-30 GPM 30-330 SCFM 3 0 4 only $6000 \ psig \ (liquids, \ stainless \ steel)$ 7 Т 1/2" BSPP 3 only 0 4 4-40 GPM 30-400 SCFM 4 only U 3/4" BSPP 4 only 5 0 5-50 GPM 40-500 SCFM 4 only V 1" BSPP 4 only = **FLUID MEDIA** 5 0 30-470 SCFM 5-50 GPM 5 only W 1-1/4" BSPP 5 only

5 only

5 only

Note: SAE porting not available in Brass. Consult

factory for SAE brass monitor requirements.

Χ

TEMPERATURE DE-RATING FOR ALUMINUM & BRASS METERS

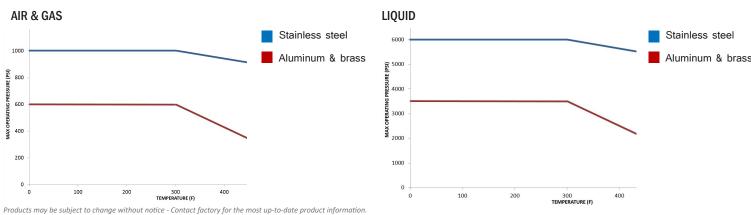
1-1/2" BSPP

2" BSPP

Α

Н

W





Air & Gases

Oil & 0.873 specific gravity

Water & 1.0 specific gravity

Note: For special scales consult the factory

8-75 GPM

10-100 GPM

20-150 GPM

30-750 SCFM

150-900 SCFM

150-1300 SCFM

7 5

8 8

9 9

5 only

5 only

5 only