HIGH TEMPERATURE FLOW METER

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

TECHNICAL SPECIFICATIONS

Measuring Accuracy
Liquids: ±2.0% of full scale

Air/Gas: ±2.5% of full scale in center third of measuring range; ±4.0% in upper & lower thirds

Repeatability
±1% of full scale

Flow Measuring Range
0.1–150 GPM (0.4–560 LPM)

Maximum Operating Pressure[1]
Liquids
Aluminum & brass: 3500 PSIG (240 Bar)
Stainless steel: 6000 PSIG (410 Bar)

Air/Gas
Aluminum & brass: 600 PSIG (40 Bar)
Stainless steel: 1000 PSIG (69 Bar)

Maximum Operating Temperature
400°F (204°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.

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

BENEFITS

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 or Reverse Flow Options
High temperature monitors are also available in bidirectional or reverse flow versions. Contact the factory for more information.

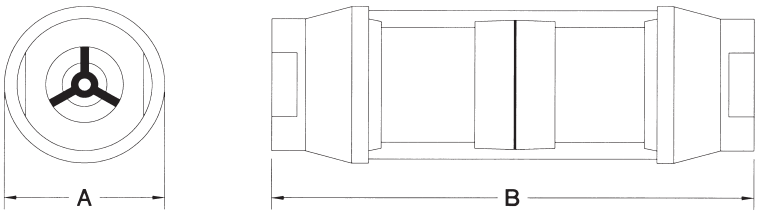
MATERIALS OF CONSTRUCTION (NON-WETTED COMPONENTS)

	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	FKM w/ PTFE backup	FKM w/ PTFE backup	FKM 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)
A	1-7/8" (48mm)	2-3/8" (60mm)	3-1/2" (90mm)	3-1/2" (90mm)
B	6-9/16" (167 mm)	7-5/32" (182mm)	10-1/8" (258mm)	12-5/8" (322mm)

AW-LAKE PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

HIGH TEMPERATURE FLOW METERS

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PART NUMBER GUIDE

H [ ] [ ] — [ ] [ ] [ ] — [ ] [ ] [ ] [ ] — [ ] [ ] [ ] [ ]

METER STYLE

High Temperature

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, aluminum & brass)	=	4
1000 psig (air/gas, stainless steel)	=	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

Note: For special scales consult the factory.

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

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	=	R F
Bi-Directional Flow	=	B I

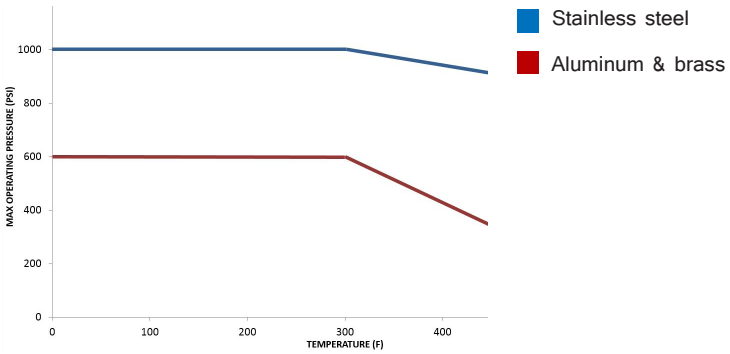
Note: See bi-directional datasheet for available bi-directional ranges.

FLOW RANGES

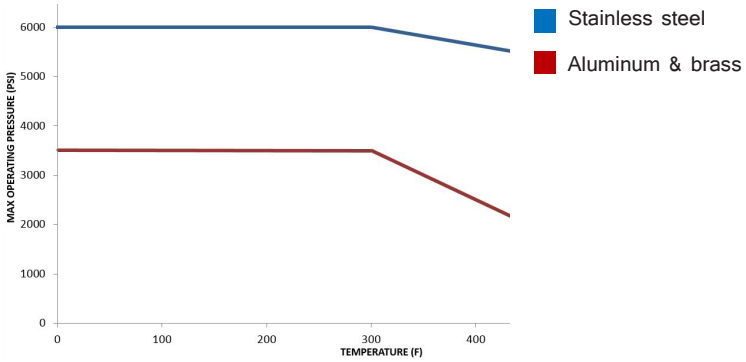
Liquid	Air	Size		
0.1-1.0 GPM	2-12 SCFM	3 only	=	0 1
0.2-2.0 GPM	4-23 SCFM	3 & 4	=	0 2
0.5-5.0 GPM	5-50 SCFM	3 & 4	=	0 5
1-10 GPM	10-100 SCFM	3 & 4	=	1 0
1-15 GPM	25-150 SCFM	3 & 4	=	1 5
2-20 GPM	20-215 SCFM	4 only	=	2 0
2-25 GPM	20-250 SCFM	4 & 5	=	2 5
3-30 GPM	30-330 SCFM	4 only	=	3 0
4-40 GPM	30-400 SCFM	4 only	=	4 0
5-50 GPM	40-500 SCFM	4 only	=	5 0
5-50 GPM	30-470 SCFM	5 only	=	5 0
8-75 GPM	30-750 SCFM	5 only	=	7 5
10-100 GPM	150-900 SCFM	5 only	=	8 8
20-150 GPM	150-1300 SCFM	5 only	=	9 9

TEMPERATURE DE-RATING FOR ALUMINUM & BRASS METERS

AIR & GAS



LIQUID



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

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