

Brooks-Mite™ Flow Indicators, Sizes 2- 8



Model 2001
Size 8



Model 2001 with Valve
Sizes 2-6

DESIGN FEATURES

- Ten-to-one rangeability
- Clear acrylic plastic body with integral metering tubes
- Metal connectors prevent cracking from overtightening
- O-ring construction on connectors, seal plugs and valves (Sizes 2-8)
- Standard direct read scales for air and water
- Optional valve (Sizes 2-7), on inlet or outlet
- Bezels for flush panel mounting

Model 2001 Brooks-Mite®

DESCRIPTION

The Brooks-Mite® flow indicator provides a means of indication at lowest cost for noncorrosive flow applications. The tapered metering tube is integrally machined in the acrylic plastic body. A standard direct reading scale engraved on the body affords maximum simplicity of installation and operation. Available options include integral needle control valves, as well as flow controllers on the inlet or outlet.

SPECIFICATIONS

Capacities

Refer to Table 1

Pressure & Temperature

100 psig at temperatures from 35° to 160°F
(1.67° to 72°C)

Pressure Equipment Directive (PED) 97/23/EC

Flowmeters mentioned in this data sheet are Sound Engineering Practice (SEP).

- Flowmeters are hydrostatic pressure tested according to ASME B31.3.

Accuracy

Meter specified to have an accuracy of $\pm 10\%$ of full scale

Repeatability

1% Full Scale

Rangeability

10 to 1

Scales

Length - 37 mm, nominal (Sizes 2-7), 65 mm nominal (Size 8)
Type - Direct read scale engraved on meter body for air or water service (see Table 1 for available ranges), millimeter scale with table for air or water service.
Optional: Special direct read scale engraved on meter body

Connections

Sizes 2-6 - 1/8" NPT female threaded, Stainless Steel, horizontal
Size 7 - 1/8" or 1/4" NPT female threaded, Stainless Steel, horizontal
Size 8 - 3/8" NPT female adaptors, Stainless Steel, vertical; 3/4" NPT female machined in body, vertical

Materials of Construction

Meter Body - Clear acrylic plastic
Floats: Glass - 316 Stainless Steel
End Fittings - 316 Stainless Steel
Clean Out Plugs - Nylon
Float Stops - 316 Stainless Steel (Sizes 2-7)
O-rings - Buna-N, Viton® fluoroelastomers,
Guide Rod (Sizes 2-8), 316 Stainless Steel

Dimensions

Refer to Figure 1

Compatible Brooks Equipment

Brooks-Line® IV (Sizes 2-6, See DS-VA-BLIV-eng), or standard needle (Size 7) integral flow control valve on inlet or outlet.
Flush mounting bezels in aluminum (Sizes 2-7) or steel (Size 8).
Threaded adaptors and locknuts for front panel mounting (Sizes 2-7).
Integral flow controllers and needle valves (See DS-VA-FC-eng).

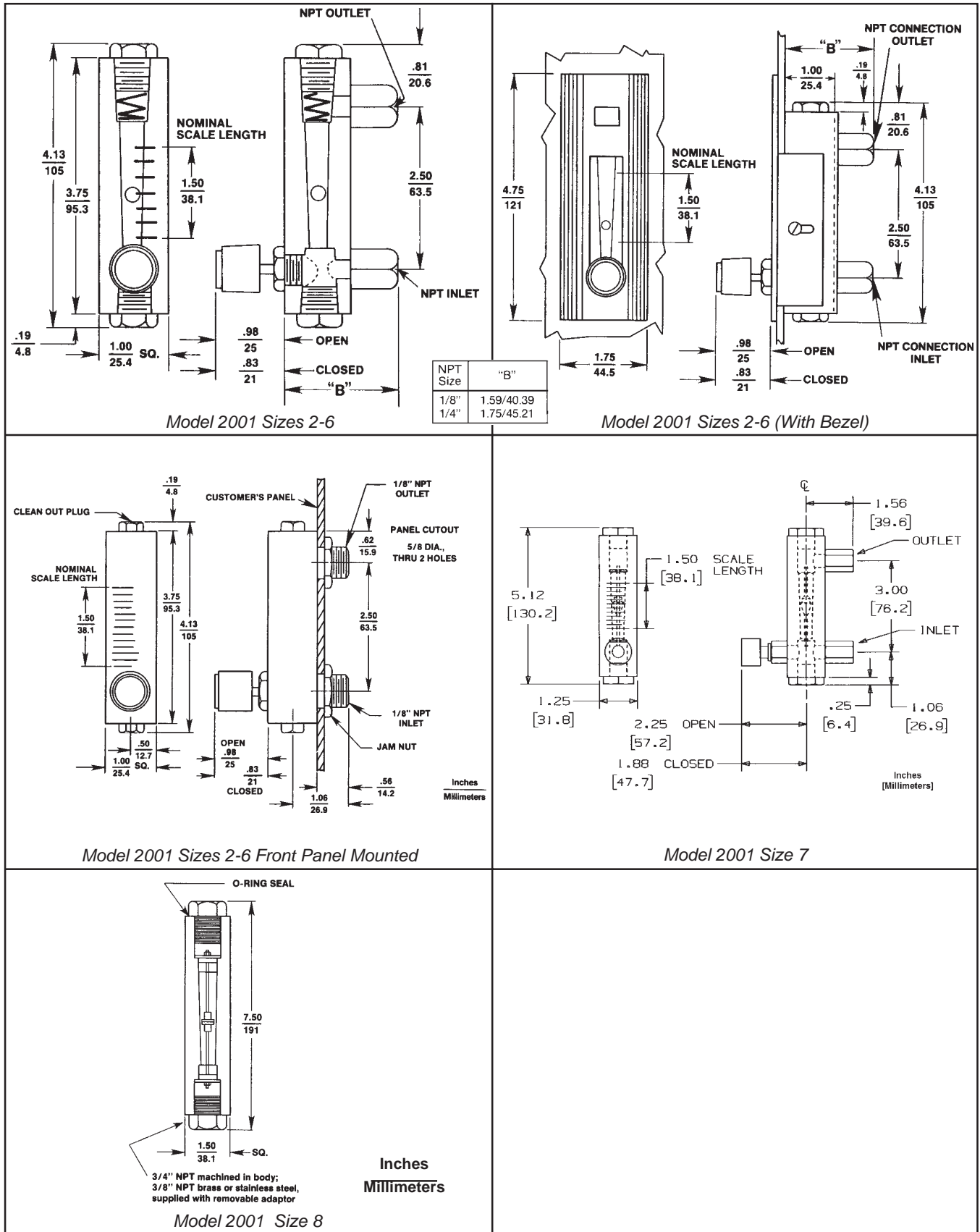


Figure 1 Dimensions

Model 2001 Brooks-Mite®

Table 1 Capacities

Meter Size Tube & Float	Maximum Flow Rate	
	Air	Water
2-38 A Glass	2 scfh	
2-38 B Stn. Stl.	4.5 scfh	
2-38 C Glass		0.25 gph
2-38 D Stn. Stl.		0.8 gph
2-38 E Glass		16 cc/min
2-38 F Stn. Stl.		50 cc/min
4-38 A Glass	10 scfh	
4-38 B Stn. Stl.	18 scfh	
4-38 C Glass		1.4 gph
4-38 D Stn. Stl.		4 gph
4-38 E Glass		90 cc/min
4-38 F Stn. Stl.		250 cc/min
6-38 A Glass	50 scfh	
6-38 B Stn. Stl.	90 scfh	
6-38 B Stn. Stl.	1.5 scfm	
6-38 C Glass		10 gph
6-38 D Stn. Stl.		20 gph
6-38 E Glass		650 cc/min
6-38 F Stn. Stl.		1200 cc/min
7-38 A Stn. Stl.	225 scfh	
7-38 B Stn. Stl.		55 gph
8-75 A Stn. Stl.	6.5 scfm	
8-75 B Stn. Stl.	10 scfm	
8-75 C Stn. Stl.	15 scfm	
8-75 D Stn. Stl.		2.0 gpm
8-75 E Stn. Stl.		3.0 gpm
8-75 F Stn. Stl.		4.5 gpm

ORDERING INFORMATION

To order, please specify the following:

1. Model Number
2. Size, Connections, Type
3. Quantity Required
4. Fluid
5. Minimum, Normal and Maximum Flow Rate
6. Minimum, Normal and Maximum Operating Temperature
7. Minimum, Normal and Maximum Operating Pressure (Inlet and Outlet)
8. Fluid Specific Gravity
9. Fluid Viscosity
10. Scale Data
11. Materials of Construction
 - a. End Fittings
12. Unusual System Conditions (For ranges other than listed, consult factory.)
13. Optional Equipment
 - a. Valve/Controller Type and Location
 - b. Special Engraved Scale
 - c. Flush Mounting Bezels
 - d. Front of Panel Mounting Adaptors

Refer to Model Code Tables 2, 3 and 4

Table 2 Model Code for Brooks Model 2001 Sizes 2-6

BASE MODEL NUMBER		CONNECTION ORIENTATION
2001D		SINGLE TUBE SIZES 2 - 6
		METER TUBE SIZE
2		SIZE 2
4		SIZE 4
6		SIZE 6
		FLOAT MATERIAL
A		GLASS
C		STAINLESS STEEL
		SCALE INSCRIPTION
A		NONE
B		MM
C		LINEAR
D		0-100% OF MAX. FLOW
E		SCFH AIR @ STP
F		SCFM AIR @ STP (SIZE 6 ONLY)
G		GPH WATER, SP. GR. 1.0
H		CC/MIN WATER, SP. GR. 1.0
K		GAS INSCRIPTION, CALIBRATION REQUIRED
L		LIQUID INSCRIPTION, CALIBRATION REQUIRED
M		SPECIAL INSCRIPTION UNCALIBRATED (NOTE 1)
		FITTING AND O-RING MATERIAL
4		STAINLESS STEEL & VITON STANDARD
2		STAINLESS STEEL & BUNA-N
5		STAINLESS STEEL & EPM
		CONNECTION TYPE AND SIZE
A		1/8" NPT
B		1/8" NPT THREADED W/LOCKNUT
C		1/4" NPT
D		1/4" NPT THREADED W/LOCKNUT
		VALVE OR CONTROLLER TYPE
A		NONE
B		VALVE ON INLET
C		VALVE ON OUTLET
D		TO 8802D SERIES FLOW CONTROLLER W/1/4" NPT (NOTE 2)
E		TO 8902D SERIES FLOW CONTROLLER W/1/4" NPT (NOTE 2)
		ACCESSORIES
1		NONE
2		FLUSH MOUNTING BEZEL
3		DRILLED FOR FRONT PANEL MOUNT
		INLET CONNECTION (TO FACE)
B		BACK
D		DOWN (1/8" NPT INTEGRAL, NO VALVE ONLY) NOTE 3
F		FRONT
L		LEFT
R		RIGHT
		OUTLET CONNECTION (TO FACE)
B		BACK
F		FRONT
L		LEFT
R		RIGHT
U		UP (1/8" NPT INTEGRAL, NO VALVE ONLY) NOTE 3
Example: 2001D2AA1AA1BB		

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Table 3 Model Code for Brooks Model 2001 Size 7

BASE MODEL NUMBER		CONNECTION ORIENTATION
2001E		SINGLE TUBE SIZE 7
		METER TUBE SIZE
7		SIZE 7
		FLOAT MATERIAL
C		STAINLESS STEEL & ROD GUIDE
		SCALE INSCRIPTION
A		NONE
B		MM
C		LINEAR
D		0-100% OF MAX. FLOW
E		SCFH AIR @ STP
G		GPH WATER, SP. GR. 1.0
K		GAS INSCRIPTION, CALIBRATION REQUIRED
L		LIQUID INSCRIPTION, CALIBRATION REQUIRED
M		SPECIAL INSCRIPTION UNCALIBRATED (NOTE 1)
		FITTING AND O-RING MATERIAL
4		STAINLESS STEEL & VITON STANDARD
2		STAINLESS STEEL & BUNA-N
5		STAINLESS STEEL & EPM
		CONNECTION TYPE AND SIZE
C		1/4" NPT
D		1/4" NPT THREADED W/LOCKNUT
		VALVE OR CONTROLLER TYPE
A		NONE
B		VALVE ON INLET
C		VALVE ON OUTLET
D		TO 8810-2 SERIES FLOW CONTROLLER W/1/4" NPT (NOTE 2)
E		TO 8910-2 SERIES FLOW CONTROLLER W/1/4" NPT (NOTE 2)
		ACCESSORIES
1		NONE
2		FLUSH MOUNTING BEZEL
3		DRILLED FOR FRONT PANEL MOUNT
		INLET CONNECTION (TO FACE)
B		BACK
D		DOWN (1/8" NPT INTEGRAL, NO VALVE ONLY) NOTE 3
F		FRONT
L		LEFT
R		RIGHT
		OUTLET CONNECTION (TO FACE)
B		BACK
F		FRONT
L		LEFT
R		RIGHT
U		UP (1/8" NPT INTEGRAL, NO VALVE ONLY) NOTE 3
Example: 2001E7CA1CA1BB		

Table 4 Model Code for Brooks Model 2001 Size 8

BASE MODEL NUMBER		CONNECTION ORIENTATION
2001D		
		METER TUBE SIZE
7		SIZE 8
		FLOAT MATERIAL
D		STAINLESS STEEL, ROD GUIDED FOR 8-75A ONLY
E		STAINLESS STEEL, ROD GUIDED FOR 8-75-B & 8-75D
F		STAINLESS STEEL, ROD GUIDED FOR 8-75E ONLY
G		STAINLESS STEEL, ROD GUIDED FOR 8-75C & 8-75F
		SCALE INSCRIPTION
A		NONE
B		MM
C		LINEAR
D		0-100% OF MAX. FLOW
F		SCFH AIR @ STP
J		GPM WATER, SP. GR. 1.0
K		GAS INSCRIPTION, CALIBRATION REQUIRED
L		LIQUID INSCRIPTION, CALIBRATION REQUIRED
M		SPECIAL INSCRIPTION UNCALIBRATED (NOTE 1)
		FITTING AND O-RING MATERIAL
4		STAINLESS STEEL & VITON STANDARD
2		STAINLESS STEEL & BUNA-N
5		STAINLESS STEEL & EPM
9		NONE
		CONNECTION TYPE AND SIZE
E		3/8" NPT (SIZE 8 ONLY)
F		3/4" NPT INTEGRAL BODY
		VALVE OR CONTROLLER TYPE
A		NONE
D		TO 8810 SERIES FLOW CONTROLLER W/1/4" NPT (NOTE 2)
E		TO 8910 SERIES FLOW CONTROLLER W/1/4" NPT (NOTE 2)
F		TO 8830 FLOW CONTROLLER W/3/4" NPT (NOTE 2)
		ACCESSORIES
1		NONE
2		FLUSH MOUNTING BEZEL
3		DRILLED FOR FRONT PANEL MOUNT
		INLET CONNECTION (TO FACE)
D		DOWN
		OUTLET CONNECTION (TO FACE)
U		UP
Example: 2001D8DD9FA1DU		

Model 2001 Brooks-Mite®

BROOKS LOCAL AND WORLDWIDE SUPPORT

Brooks Instrument provides sales and service facilities around the world, ensuring quick delivery from local stock, timely repairs and locally based sales and service facilities.

Our dedicated flow experts provide consultation and support, assuring successful applications of the Brooks flow measurement and control products.

Calibration facilities are available in local sales and service offices. The primary standard calibration equipment used to calibrate our flow products is certified by our local Weights and Measures Authorities and traceable to the relevant international standards.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

CUSTOMER SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users and maintenance persons. Please contact your nearest sales representative for more details.

HELP DESK

In case you need technical assistance:

Americas ☎ 1-888-554-FLOW
Europe ☎ +(31) 318 549 290 Within Netherlands ☎ 0318 549 290
Asia ☎ +011-81-3-5633-7100

Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

TRADEMARKS

Brooks Brooks Instrument, LLC
Brooks-Line IV Brooks Instrument, LLC
Brooks-Mite Brooks Instrument, LLC
Viton DuPont Performance Elastomers



Brooks Instrument
407 West Vine Street
P.O. Box 903
Hatfield, PA 19440-0903 USA
T (215) 362-3700
F (215) 362-3745
E-Mail BrooksAm@EmersonProcess.com
www.BrooksInstrument.com

Brooks Instrument
Neonstraat 3
6718 WX Ede, Netherlands
T 31-318-549-300
F 31-318-549-309
E-Mail BrooksEu@EmersonProcess.com

Brooks Instrument
1-4-4 Kitasuna Koto-Ku
Tokyo, 136-0073 Japan
T 011-81-3-5633-7100
F 011-81-3-5633-7101
E-Mail BrooksAs@EmersonProcess.com