

O-ring Seal Flowmeter Model 1305

Variable Area

O-ring Seal Construction Glass Tube Variable Area Flowmeters

Description

The Brooks® Model 1305 glass tube flowmeters provide a low cost means of flow rate indication. They are designed for applications where the metering accuracy requirements are not severe. These meters are ideal for purge type service, seal oil systems, bearing lubrication and cooling water indication. Model 1305 is available with vertical inlets and outlets and standard materials of construction only.

Features

- Capacity ranges 0.8 to 25 gpm; 3 to 50 scfm
- O-ring seal construction
- Sturdy bolted side-plate construction
- Standard NPT connections
- · Vertical inlets and outlets standard

Product Specifications

Capacities and Pressure Drops	See Capacities Table			
Max Working Pressure* at 250°F/121°C	Size 8: 200 psig: size 10: 150 psig			
PED Category	SEP			
Standard Flow Accuracy	±10% Full Scale from 100% to 10% of scale reading			
Optional Flow Accuracy	±5% Full Scale from 100% to 10% of scale reading			
Repeatability	1% Full Scale			
Scale Length	75mm (3")			
Scale Graduations	Std.: On-tube printed scale (Linear scale, direct reading gpm water or scfm air) Opt.: Detachable printed scale (Choice of direct reading units, millimeter or percentage of maximum flow with factor tag)			
Ambient Temperature Limits	33 to 125°F (1°C to 52°C)			
Operating Fluid Temperature Limits	Maximum: 250°F (121°C); Minimum: 33°F (1°C)			
Connections	Standard: Female NPT			
Connection Orientation Vertical inlets and outlets				
Dimensions	See Dimensions Figure			
Materials of Construction				
Metering Tube	Borosilicate glass			
Protective Tube Sleeve	UV stabilized polycarbonate			
Window	Scratch resistant, UV stabilized polycarbonate			
Float & Float Stops	316 stainless steel			
Housing	Aluminum side plates			
End Fittings	Brass, 316 stainless steel			
O-rings	Buna-N, Viton®-A fluoroelastomers			
Bolts	300 series stainless steel			

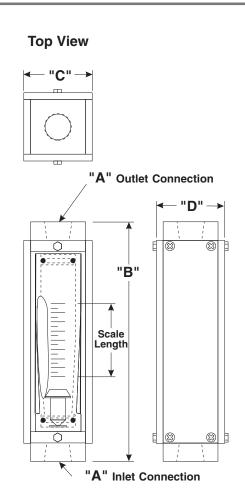


Product Specifications - Capacities

		WATER		AIR @ STP			
METER		PRESSURE DROP				PRESSURE DROP	
SIZE	TUBE	FLOAT	GPM	INCHES W.C.	FLOAT	SCFM	INCHES W.C.
		8-RV-8	0.80	8.0	8-RV-8	3.00	9.0
		8-RJ-10	1.50	9.0	8-RJ-10	6.00	11.0
8	R-8M-75-1	8-RJ-23	2.50	13.0	8-RJ-23	10.00	15.0
		8-RJ-30	3.50	19.0	8-RJ-30	14.00	22.0
		8-RJ-39	5.00	34.0			
		10-RJ-80	10.00	18.0	10-RJ-37	24.00	18.0
10	R-10M-75-3	10-RJ-120	15.00	35.0	10-RJ-83	35.00	35.0
		10-RJ-180	25.00	71.0	10-RJ-90	50.00	71.0

NOTE: ALL AIR FLOWS ARE AT 14.7 PSIA AND 70 DEG F

Product Dimensions



Front View Side View

	Approximate Dimensions 1305 Flow Indicators						
Meter	Scale	"A"					
Size	Length	(Conn. Size)	"B"	"C"	"D"		
8	75 mm	1/2" NPT	7-3/4" (196.85)	2-3/8" (60.33)	2-3/8" (60.33)		
10	75 mm	1" NPT	7-3/4" (196.85)	2-3/8" (60.33)	2-3/8" (60.33)		

DIMENSIONS INCHES (mm)

Model Code

		Code Option	Option Description				
ı.	Base Model Numbers	1305F	Threaded				
II.	Tube Designator]1	R-8M-75-1				
		L1	R-10M-75-3				
III.	Float Designator		Size 8 Size 10				
	rtout Besignator	2C	8-RV-8	-			
		5C		10-R]-37			
		6C	-	10-R]-80			
		7C	-	10-R]-83			
		8C	8-R]-10	10-R]-90			
		9C	8-RJ-23	10-R]-120			
		AC	8-R]-30	10-RJ-180			
		BC	8-R]-39				
IV.	Scale (see note 1)	C2	0-100 LINEAR on tube				
	Scale (See Hote 1)	12	GPM WATER SP. GR . 1.0, VISC 1.0 CP on tube				
		12	SCFM AIR @ STP on tube				
			The following selections are detachable				
		M1	Special inscription (special calibration not required)				
		N1	Special calibration with scale 10% F.S. GAS (see note 2)				
		N3	Special calibration with scale 10% F.S. LIQUID (see note 2)		S. LIQUID (see note 2)		
		P1	Special calibration with scale 5% F.S. GAS				
		P3	Special calibration with scale 5% F.S. LIQUID				
V.	Materials of Construction		Fitting	0-ring	Side Plates		
	(see note 3)	Α	Brass	Buna	Aluminum		
		В	316 Stainless Steel	Viton	Aluminum		
		С	316 Stainless Steel	Viton	Stainless Steel		
		D	316 Stainless Steel	Buna	Aluminum		
		E	Brass	Viton	Aluminum		
VI.	Accessories	A	None				

Notes:

1 Selections C2, J2 and L2 are standard size 8 &~10

2 Specify only if NIST certification is required.

Sample Standard Model Code

ı	II	III	IV	V	VI
1305F]1	9C	C2	Α	Α

Approximate Shipping Weight (lbs.)

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	SIZE			
MODEL	8	10		
1305	7	5		

Brooks Service and Support

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit www.BrooksInstrument.com to locate the service location nearest to you.

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:

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

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TRADEMARKS

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