

GT130x Series Flowmeter Model 1305

Variable Area

Glass Tube Variable Area Flowmeters O-ring Seal Construction

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

Conneities and Dressure Dress	Con Connection Table				
Capacities and Pressure Drops	See Capacities Table				
Max Working Pressure* at 250°F/121°C	Refer to Pressure/Temperature Ratings Tables				
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	Refer to Pressure/Temperature Ratings Tables				
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				

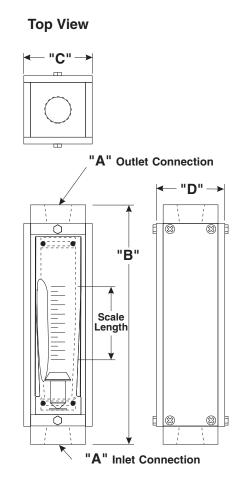


Product Specifications - Capacities

		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	12.00	18.0	10-RJ-37	24.00	18.0
10	R-10M-75-3				10-RJ-83	35.00	35.0
		10-RJ-180	21.00	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)

Product Specifications - Pressure and Temperature Ratings

Pressure Rating for Female Threaded 1305 Units					
Meter Size	Max. Operating Pressure		PED		perating erature
	PSIG	Bar		°F	°C
#8	200	13.8	SEP	250	121
#10	150	10.3	SEP	250	121

Pressure Rating for Female Threaded 1305 Units With CRN Approval						
Meter Size	Max. Operating Pressure		PED		perating rature	
	PSIG	Bar		°F	°C	
#8	145	10	SEP	250	121	
#10	94	6.5	SEP	250	121	

Model Code

Code	Description	Code Option	Option Description		
I-V	Base Model Numbers	1305F	Threaded		
VI-VII	Tube Designator		Size	Tube No.	
VI-VII	Tube Designator]1	8	R-8M-75-1	
		L1	10	R-10M-75-3	
			8 w/CRN	R-10W-75-3 R-8M-75-1	
]4 L4	10 w/CRN	R-10M-75-3	
		L4	10 W/CKN	K-10/W-75-3	
VIII-IX	Float Designator		Size 8	Size 10	
	-	2C	8-RV-8	-	
		5C	-	10-R]-37	
		6C	-	10-R]-80	
		70	-	10-R]-83	
		8C	8-R]-10	10-R]-90	
		90	8-R]-23	-	
		AC	8-R]-30	10-R]-180	
		BC	8-R]-39	-	
V VI		- 62	0.400 111540		
X-XI	Scale (see note 1)	C2	0-100 LINEAR on tub	-	
]2	GPM WATER SP. GR.		n tube
		L2	SCFM AIR @ STP on t		
			The following selection		
		M1	Special inscription (sp		
		N1	Special calibration with scale 10% F.S. GAS		
		N3	Special calibration with scale 10% F.S. LIQUID		
		P1	Special calibration with scale 5% F.S. GAS		
		P3	Special calibration wi	ith scale 5% F.S. LIC	QUID
XII	Materials of Construction		Fitting	O-ring	Side Plates
AII	Materials of Constitution	A	Brass	Buna	Aluminum
		В	316 Stainless Steel	Viton	Aluminum
		С	316 Stainless Steel	Viton	Stainless Steel
		D	316 Stainless Steel	Buna	Aluminum
		U		1 1	
		Г	Drace	Viton	
		E	Brass	Viton	Aluminum

Notes:

Sample Standard Model Code

I-V	VI-VII	VIII-IX	X-XI	XII	XIII
1305F]1	2C	C2	Α	Α

1305 Meter Weight - Sizes 8/10

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Material of	Connection Type
Construction	NPT-F
Brass/Aluminum	1.3 kg / 2.9 lbs
Stainless Steel	1.7 kg / 3.8 lbs

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

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.*

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

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Global Headquarters

Brooks Instrument 407 West Vine Street Hatfield, PA 19440-0903 USA Toll-Free (USA): 888-554-FLOW T: 215-362-3500 F: 215-362-3745

BrooksAM@BrooksInstrument.com

A list of all Brooks Instrument locations and contact details can be found at www.BrooksInstrument.com

