



Sho-Rate™ Model 1358

Sho-Rate™ Series

Model 1358

Variable Area

Sho-Rate™ "50", Size 8, Flow Indicator Glass Tube Variable Area Flowmeters

Overview

The Brooks® Sho-Rate "50" Series of low flow indicators provide a cost-effective means of flow indication where the accuracy requirements are not severe. Available options include an integral needle control valve and optional configuration to connect a flow controller to the inlet or outlet of the meter.

Product Features

- Ten-to-one rangeability
- Heavy-wall, precision bore borosilicate glass metering tube
- A wide range of scales on the metering tube
- Tube removable without disconnecting the instrument
- Interchangeable tubes and floats
- Customer rotatable
- Piping connections through 360° at 90° intervals
- Easily panel mounted

Product Specifications

Specifications	1358
Measuring Range	See Capacity Table
Standard Accuracy	±10% of full scale from 100% to 10% of reading
Repeatability	0.5% full scale
Rangeability	Ten to one
Pressure/Temperature	200 psig at 33°F to 250°F (1°C to 121°C)
	Fluid temperatures below 32°F (0°C) will cause frosting of the glass metering tube. Consult factory for applications below this temperature.
	100 psig at 33°F to 250°F (1°C to 121°C)(CRN Certification)
Pressure Equipment Directive (PED) 97/23/EC	Flowmeters mentioned in this document are Sound Engineering Practice (SEP)

(Specifications continued on next page)

Product Specifications (Continued)

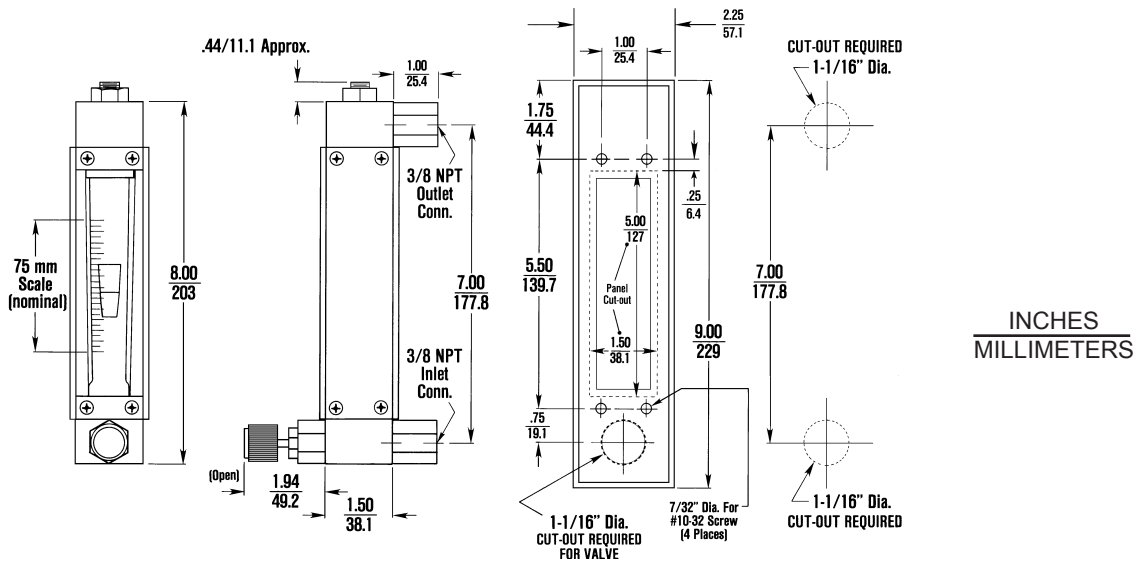
Specifications	1358
Materials of Construction:	
Metering Tube	Borosilicate Glass
Tube Packing	Standard: Neoprene™ (Brass meters); Viton-A® fluoroelastomers (316 Stainless Steel meters); Optional: EPM
O-rings	Standard: Buna-N (Brass meters); Viton-A® fluoroelastomers (316 Stainless Steel meters); Optional: EPM
Float	316 Stainless Steel
Float Stops	Stainless Steel
Side Plates	Standard: Black Anodized Aluminum
Window	Scratch resistant, UV stabilized polycarbonate
Back Cover	Milk white polycarbonate
End Fittings	Chrome Plated Brass or 316 Stainless Steel
Connections	Standard: Horizontal female 3/8" NPT threaded adaptors; Optional: Refer to Model Code
Scales	Type (standard): Fused on meter tube
	Length: 75 mm, nominal
	Graduations: Standard: Direct read on tube in gpm water or scfm air
	Optional: Special direct read decal on tube. Consult factory for available ranges.
	Direct read on metal scale plate mounted beside tube

Product Capacities

			Pressure Drop Without Valve Inches W.C.	Pressure Drop With Valve Inches W. C.	Float
Maximum Flow Rate	Water (gpm)	0.8	12.6	13.6	8-RV-8
		1.5	22.2	27.0	8-RJ-10
		2.5	61.0	85.2	8-RJ-23
		3.5	88.7	121.0	8-RJ-30
		5.0	172	238.0	8-RJ-39
	Air (scfm)	3.4	14.34	15.5	8-RV-8
		6.0	25.34	30.8	8-RJ-10
		12.0	69.34	97.3	8-RJ-23
		15.0	101.34	138.3	8-RJ-30

NOTE: All air flows are at 14.7 psia and 70°F.

Product Dimensions



Model Code

Code Description	Code Option	Option Description
I. Base Model Number	1358F	Sho-Rate "50", Size 8
II. Tube	1	R-8M-75-1 (Cut-Off)
	2	R-8M-75-1 CRN option
	9	No Tube
III. Float (316 Stainless Steel)	A	8-RV-8
	B	8-RJ-10
	C	8-RJ-23
	D	8-RJ-30
	E	8-RJ-39
	Y	No Float
IV. Scale Type/Side Plate Arrangement	1	Scale on tube (Plain Side Plates)
	2	Aluminum Detachable Scale Mounted to Right Side Plate
V. Scale Inscription	A	No Inscription
	B	MM Scale
	D	SCFM Air @ 70°F psia, Standard 10% Accuracy
	E	GPM Liquid Specific Gravity 1.0, Viscosity 1.0 cP, Standard 10% Accuracy
	F	Special Inscription, Standard 10% Accuracy
VI. Tube Packing & O-ring Materials for Meter/Valve ¹	A	Neoprene Tube Packing, Buna O-ring
	C	Viton Tube Packing, Viton O-ring
	K	EPM Tube Packing, EPM O-ring
	L	No Packing ² , Buna O-ring
	M	No Packing ² , Viton O-ring
	N	No Packing ² , EPM O-ring
	P	No Packing ² , Kalrez O-ring
VII. Fitting & Adapter Material ³ / Process Connection Size & Type	1*	3/8" NPT Connection, Brass Fitting & Adapter
	2	3/8" NPT Connection, 316 Stainless Steel Fitting & Adapter
	3*	Thd. 3/8" NPT with Locknut Connection, Brass Fitting & Adapter
	4	Thd. 3/8" NPT with Locknut Connection, 316 Stainless Steel Fitting & Adapter
VIII. Valve Configuration	A	No Valve (Plain End Fitting on Inlet)
	B	Standard Stainless Steel Needle Valve on Inlet
	C	Standard Stainless Steel Needle Valve on Outlet
	D*	Standard Brass Needle Valve on Inlet
	E*	Standard Brass Needle Valve on Outlet
	F ⁴	To mount 8810 Flow Controller
	G ⁴	To mount 8910 Flow Controller
	H ^{4*}	To mount 8830 Flow Controller
IX. Connection Orientation	1	Inlet Port Back, Outlet Port Back
	3	Inlet Port Back, Outlet Port Right ⁵
	9	Inlet Port Right, Outlet Port Back ⁶
X. Accessories (One or Two-Digit Field)	A	None
	G	No Brooks Identification

NOTES: ¹If valve is not required, select proper O-ring material for meter only.
²If tube is not required, select proper O-ring material coded L through P.
³If no adapter is required, select proper code for end fitting material only.
⁴Flow Controller must be a second-line item on customer's order.
* Not available with CRN Certification
⁵For 8912 Controller Only
⁶For 8812/8830 Controller Only

Sample Standard	I	II	III	IV	V	VI	VII	VIII	IX	X
Model Code	1358F	1	C	2	D	C	2	B	1	A

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.

SEMINARS AND TRAINING

Brooks Instrument can provide 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.

TRADEMARKS

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