

Data Sheet



Model 1350G & 1355G
Sho-Rate™

Sho-Rate™ Models 1350G & 1355G

Variable Area Purgemeters

Sho-Rate™ “50” Model 1350G and Sho-Rate™ “150” Model 1355G

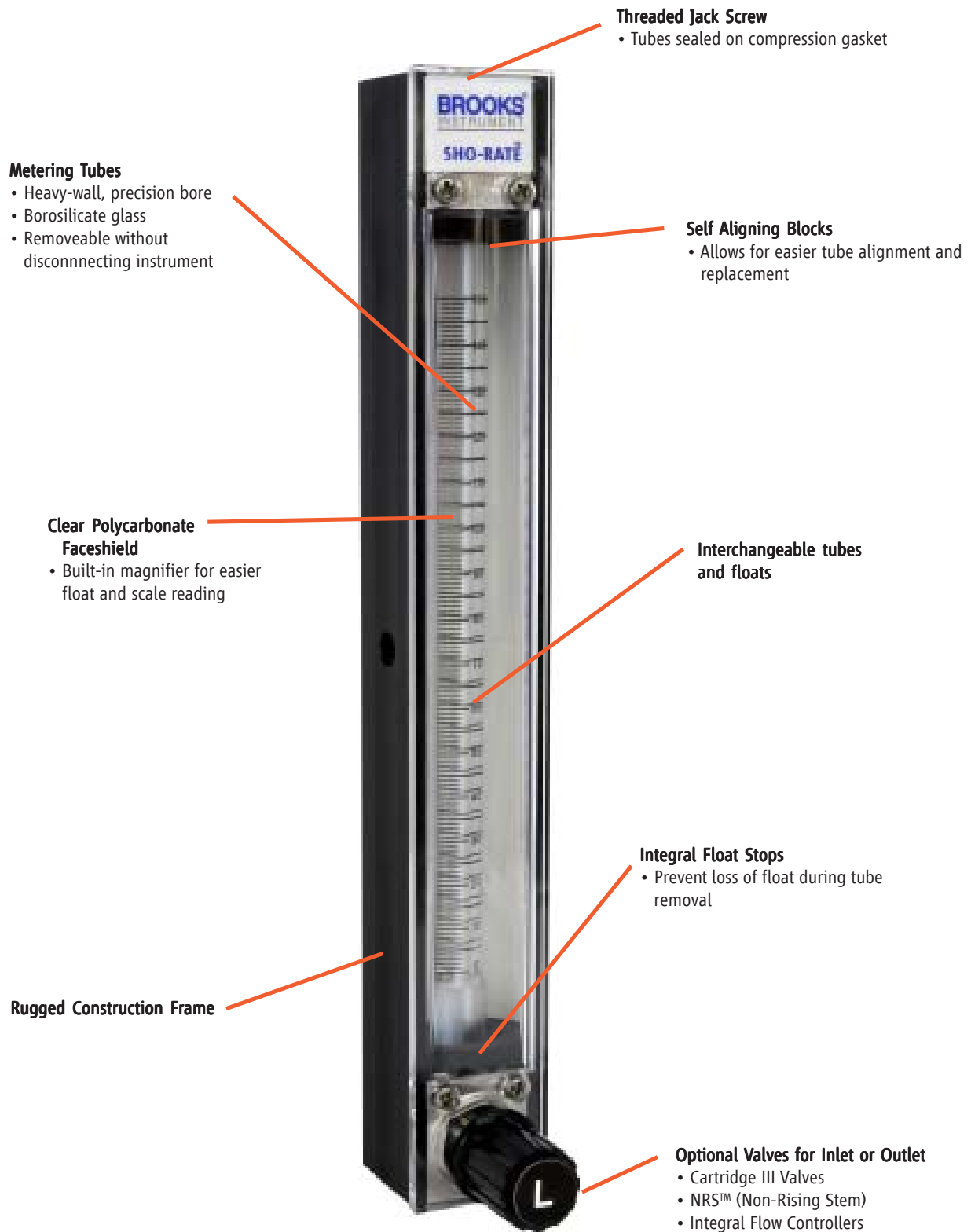
Overview

Brooks 1350 glass tube variable area flow meter has been the industry standard glass tube variable area meter for decades. This glass tube meter is ideal for a variety of gas and liquid applications. These meters are particularly ideal for purge applications. The base configuration uses a borosilicate glass tube installed in an aluminum frame with 316SS end blocks, adaptors, and valve. Additional material options, valve options, and flow controllers are available to provide the appropriate configuration for a wide variety of applications.

Product Description

The Sho-Rate 1350G and 1355G Series of low flow indicators provides a cost-effective means of flow indication for both 3% (Model 1355G) and 5% (Model 1350G) accuracy requirements. Available options include the standard or NRS™ integral needle control valves, as well as flow controllers on the inlet or outlet.

Features and Benefits



Product Specifications

Performance	1350G	1355G
Accuracy	±5% at reference conditions	± 3% at reference conditions
Repeatability	0.25% F.S.	
Pressure/Temperature	200 psig (33°F - 250°F) / 13.8 bar (1°C-121°C)	
Materials of Construction	Borosilicate glass, Brass, Aluminum, 316 Stainless Steel, Clear Polycarbonate, Milk White Polycarbonate, Teflon®	
End Block Options	Stainless Steel and Brass	
Packing Material	Viton® fluoroelastomers, Teflon®, Buna, Kalrez® perfluoroelastomers	
Float Materials	Glass, Sapphire, Stainless Steel, Carboloy®, Tantalum	
Connection Materials	Stainless Steel	
Connection Options	1/8" NPT (w/wo locknuts) 1/4" NPT (w/wo locknuts) 1/8" Compression (w/wo locknuts) 1/4" Compression (w/wo locknuts) 6 mm Compression (w/wo locknuts) 1/4" RC (w/wo locknuts) 3/8" RC (w/wo locknuts) 1/4" VCR® 1/4" ID Hose Swagelok® Converters	
Dimensions	See Dimension Drawings	
Alarm Availability	(coming soon)	
Valve Options	Cartridge III Valve and NRS™	
Valve Materials	Stainless Steel	
Flow Controller	Yes	
Certifications	International Calibration Certificate (ICC) CRN (coming soon) Pressure Equipment Directive (97/23/EC) RoHS (II) REACH (coming soon)	

Product Specifications - Capacities; 1350G, Rib Guided, Spherical Floats

		RIBBED TUBES, SPHERICAL FLOATS									
METER SIZE	TUBE NO.	FLOAT MATERIAL	WATER					AIR			
			GPH	CODE	LPH	CODE		SCFH	CODE	NLPH	CODE
2	R-2-65-A G	GLASS	0.010	JB6	0.041	JB9		0.12	JB7	3.2	JB8
		SAPPHIRE	0.021	JC4	0.079	JC2		0.19	JC3	5.0	JC1
		STN. STL.	0.049	JC8	0.18	JC5		0.37	JC7	9.8	JC6
		CARBOLOY	0.10	JB4	0.36	JB5		0.65	JB2	17	JB3
		TANTALUM	0.10	JD2	0.40	JC9		0.71	JD1	18	JD3
	R-2-65-B G	GLASS	0.014	KB8	0.06	KB2		0.16	KB7	4.4	KB9
		SAPPHIRE	0.028	KC1	0.10	KD3		0.25	KC2	6.7	KC3
		STN. STL.	0.07	KC5	0.25	KC6		0.48	KC7	12	KC8
		CARBOLOY	0.12	KB4	0.48	KB5		0.80	KB3	21	KB6
		TANTALUM	0.14	KD2	0.53	KD5		0.87	KD4	22	KD1
	R-2-65-C G	GLASS	0.12	LB9	0.47	LB7		0.99	LB6	26	LB8
		SAPPHIRE	0.22	LC1	0.83	LC2		1.3	LC3	35	LC4
		STN. STL.	0.41	LC7	1.5	LC8		2.1	LC9	55	LC6
		CARBOLOY	0.65	LB3	2.4	LB2		3.1	LB4	81	LB5
		TANTALUM	0.70	LD1	2.6	LD2		3.3	LD3	87	LD4
	R-2-65-D G	GLASS	0.68	MB9	2.5	MB7		3.9	MB8	100	MC1
		SAPPHIRE	0.99	MC2	3.7	MC3		5.1	MC4	130	MC5
		STN. STL.	1.6	MC7	6.3	MD1		7.9	MC6	200	MC8
		CARBOLOY	2.5	MB5	9.5	MB2		11	MB3	290	MB4
		TANTALUM	2.7	MD5	10.0	MD6		12	MD2	310	MD4
6	R-6-65-A G	GLASS	2.4	NB8	9.2	NB7		14	NC1	370	NB9
		SAPPHIRE	3.6	NC4	13	NC3		18	NC6	480	NC5
		STN. STL.	6.0	ND1	22	ND3		27	NC9	710	ND2
		CARBOLOY	8.9	NB2	33	NB3		38	NB5	1000	NB6
		TANTALUM	9.5	ND6	36	ND5		41	ND7	1000	ND4
	R-6-65-B G	GLASS	9.9	PB9	37	PB8		52	PC1	1300	PB7
		SAPPHIRE	14.0	PC5	53	PC3		67	PC4	1700	PC2
		STN. STL.	22.0	PD1	85	PC9		97	PC8	2500	PC6
		CARBOLOY	32.0	PB3	120	PB2		130	PB6	3500	PB4
		TANTALUM	34.0	PD7	130	PD6		140	PD5	3700	PD4

AIR FLOWS ARE AT 14.7 PSIA AND 70 DEGREES F/1.01 BAR AND 21.1 DEGREES C

Models 1350G/1355G Tube and Float Code; Decaded Scale Option, 7th, 8th & 9th Digits

SEVENTH DIGIT IN MODEL CODE, FOR SCALE CONFIGURATION		
CODE	MODEL 1350 TUBE	MODEL 1355 TUBE
A		R-2-15-A G
B		R-2-15-B G
C		R-2-15-C G
D		R-2-15-D G
F		R-6-15-B G
G	R-2-65-A G	R-2-15-AAAA G
H	R-2-65-B G	
J	R-2-65-C G	
K	R-2-65-D G	
L	R-6-65-A G	
M	R-6-65-B G	
N	NO TUBE	NO TUBE

EIGHTH AND NINTH DIGITS IN MODEL CODE, FOR SCALE CONFIGURATION					
METER ACCURACY	FLOAT MATERIAL	DETACHABLE SCALE INSCRIPTION			
		MM SCALE	LINEAR SCALE	CUSTOM DECAL	PERCENT SCALE
STANDARD (1350-10%) (1355- 5%)	GLASS	1A	2A	3A	4A
	STN. STL.	1B	2B	3B	4B
	SAPPHIRE	1C	2C	3C	4C
	CARBOLOY	1D	2D	3D	4D
	TANTALUM	1E	2E	3E	4E
CALIBRATED (1350-5%) (1355-2%)	GLASS	1G	2G	3G	4G
	STN. STL.	1H	2H	3H	4H
	SAPPHIRE	1J	2J	3J	4J
	CARBOLOY	1K	2K	3K	4K
	TANTALUM	1L	2L	3L	4L

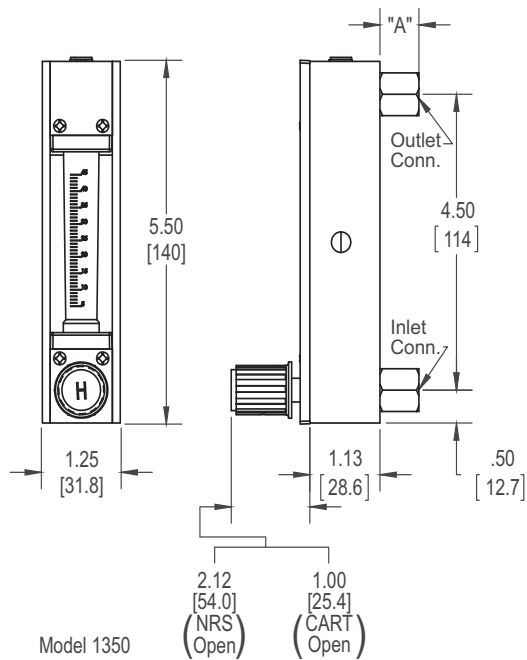
Product Specifications - Capacities; 1355G, Rib Guided, Spherical Floats

CAPACITIES (RIB GUIDE TUBES, SPHERICAL FLOATS) - FOR USE WITH 1355 SERIES ONLY					
METER SIZE	TUBE NO.	FLOAT MATERIAL	MAXIMUM FLOW RATE *		MODEL CODE
			WATER (CC/MIN.)	AIR	SCALE ON TUBE
					R-150 MM
2	R-2-15-AAAA	GLASS	0.59	50 SCC/M	JA6
		SAPPHIRE	1.1	79 SCC/M	JA8
		STN. STL.	2.6	150 SCC/M	JA7
		CARBOLOY	5.2	280 SCC/M	JA9
		TANTALUM	5.8	310 SCC/M	JB1
	R-2-15-D	GLASS	5.5	370 SCC/M	FA6
		SAPPHIRE	10	520 SCC/M	FA8
		STN. STL.	20	830 SCC/M	FA7
		CARBOLOY	34	1200 SCC/M	FA9
		TANTALUM	36	1300 SCC/M	FB1
	R-2-15-A	GLASS	17	0.82 SLPM	AA6
		SAPPHIRE	26	1.0 SLPM	AA8
		STN. STL.	46	1.6 SLPM	AA7
		CARBOLOY	70	2.4 SLPM	AA9
		TANTALUM	75	2.5 SLPM	AB1
	R-2-15-B	GLASS	53	2.3 SLPM	DA6
		SAPPHIRE	80	3.0 SLPM	DA8
		STN. STL.	130	4.6 SLPM	DA7
		CARBOLOY	200	6.7 SLPM	DA9
		TANTALUM	210	7.1 SLPM	DB1
	R-2-15-C	GLASS	90	4.0 SLPM	EA6
		SAPPHIRE	130	5.2 SLPM	EA8
		STN. STL.	220	7.9 SLPM	EA7
		CARBOLOY	340	11 SLPM	EA9
		TANTALUM	360	11 SLPM	EB1
6	R-6-15-A	GLASS	210	9.5 SLPM	GA6
		SAPPHIRE	320	12 SLPM	GA8
		STN. STL.	540	18 SLPM	GA7
		CARBOLOY	790	25 SLPM	GA9
		TANTALUM	840	26 SLPM	GB1
	R-6-15-B	GLASS	560	23 SLPM	HA6
		SAPPHIRE	820	29 SLPM	HA8
		STN. STL.	1300	43 SLPM	HA7
		CARBOLOY	1900	60 SLPM	HA9
		TANTALUM	2000	63 SLPM	HB1

AIR FLOWS ARE AT 14.7 PSIA AND 70 DEGREES F/1.01 BAR AND 21.1 DEGREES C

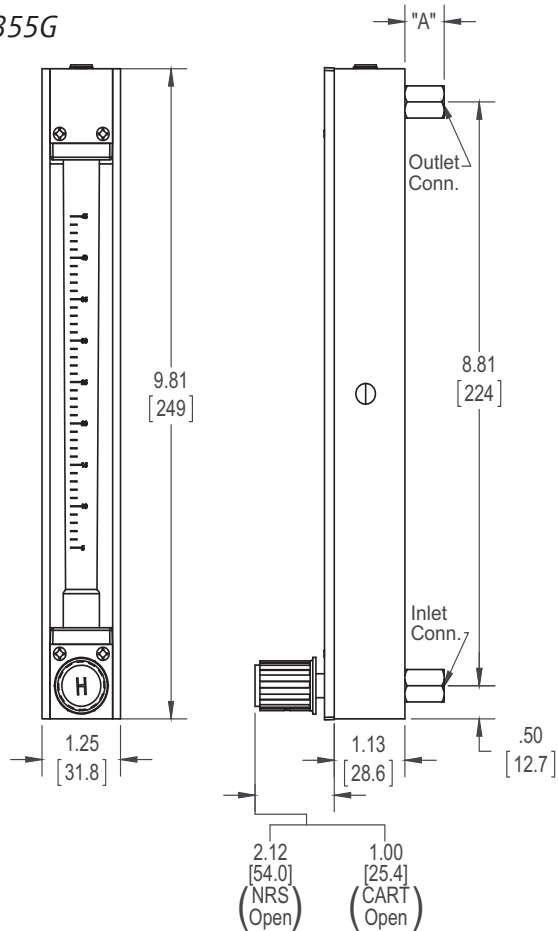
Product Dimensions - Model 1350G and 1355G

Model 1350G

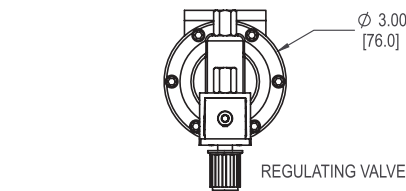


Dimension "A" Connection Adapter	
1/8" NPT/RC	.625 [15.9]
1/4" NPT/RC	.625 [15.9]
1/8" Compression	.719 [18.3]
1/4" Compression	.843 [21.4]
1/4" ID Hose	.72 [18.3]

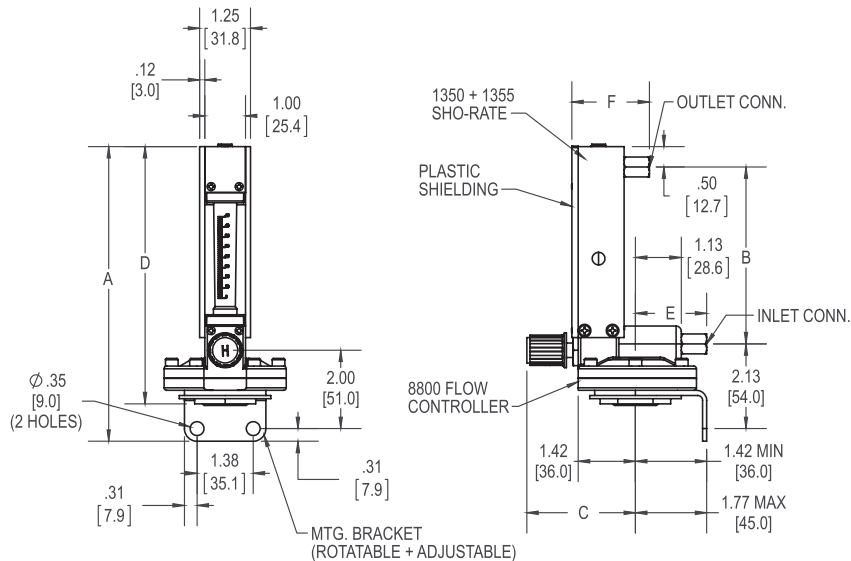
Model 1355G



Product Dimensions - Model 1350G/1355G with Flow Controller

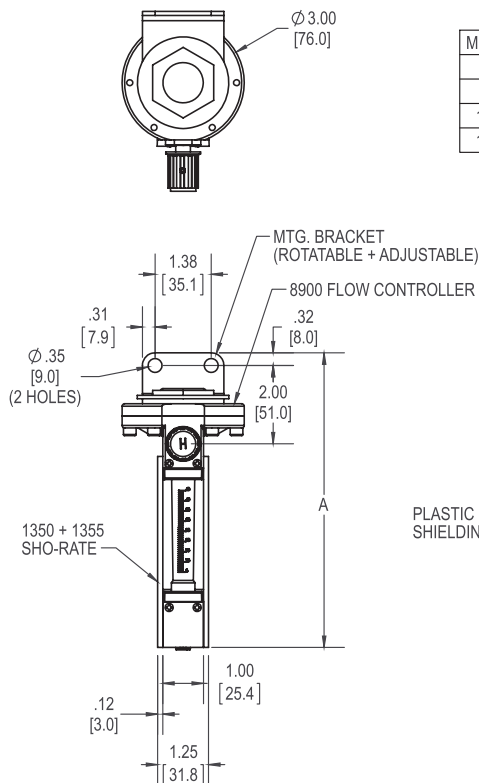


MODEL NO	SCALE LENGTH	A	A	B	B	C	C	C	C	D	D
		MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH
1350	65	7.31	185.7	4.34	110.3	2.5	63.5	2.17	55.2	6.38	162.0
1355	150	11.72	297.7	8.75	222.2	2.50	63.5	2.17	55.2	10.78	273.8

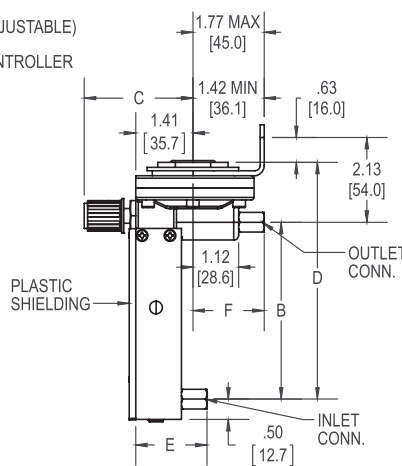


	INLET CONN.	INLET CONN.	OUTLET CONN.	OUTLET CONN.
CONN. SIZE	E	E	F	F
	INCH	MM	INCH	MM
1/8 NPT	1.72	43.7	1.62	41.1
1/4 NPT	1.12	28.6	1.71	46.0
1/8 COMP.	1.91	48.5	1.71	46.0
1/4 COMP.	2.04	51.8	1.94	49.3
1/4 I.D. HOSE	1.82	46.2	1.72	43.7
1/4 VCR (M)	N/A	N/A	2.06	52.3
1/8 Rc	1.91	48.5	1.62	41.1
1/4 Rc	1.91	48.5	1.81	46.0
3/8 Rc	2.35	53.1	2.09	53.1

*Model 1350G/1355G with
Model 8800 Flow Controller on Inlet*



MODEL NO	SCALE LENGTH	A	A	B	B	C	C	C	C	D	D
		MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH
1350	65	7.31	185.7	4.34	110.3	2.5	63.5	2.17	55.2	6.38	162.0
1355	150	11.72	297.7	8.75	222.2	2.50	63.5	2.17	55.2	10.78	273.8



	INLET CONN.	INLET CONN.	OUTLET CONN.	OUTLET CONN.
CONN. SIZE	E	E	F	F
	INCH	MM	INCH	MM
1/8 NPT	1.62	41.1	1.72	43.7
1/4 NPT	1.81	46.0	1.12	28.6
1/8 COMP.	1.81	46.0	1.91	48.5
1/4 COMP.	1.94	49.3	2.04	51.8
1/4 I.D. HOSE	1.72	43.7	1.82	46.2
1/4 VCR (M)	2.06	52.3	N/A	N/A
1/8 Rc	1.63	41.1	1.91	48.5
1/4 Rc	1.81	46.0	1.91	48.5
3/8 Rc	2.09	53.1	2.35	59.7

*Model 1350G/1355G with
Model 8900 Flow Controller on Outlet*

Ordering Information - Reference Model Code Tables

1. Model
2. Size, connections, type
3. Quantity required
4. Fluid
5. Minimum, normal and maximum operating temperature
6. Minimum, normal and maximum operating pressure (inlet and outlet)
7. Minimum, normal and maximum flow rate
8. Materials of construction
 - a. End fittings
 - b. Side plates
 - c. Bezel
 - d. Elastomers
9. Fluid
10. Fluid specific gravity
11. Fluid viscosity
12. Unusual system conditions (For ranges and pressure drops other than those listed, consult factory).
13. Optional equipment
 - a. Valve type and location
 - b. Flow controller and type

Model Code

Code Description		Code Option	Option Description		
I.	Basic Model Number	1350	65mm Sho-Rate Size 1-6 Flow Indicator		
		1355	150mm Sho-Rate Size 1-6 Flow Indicator		
II.	Model Revision Level	G	Revision G		
III.	End Block Material	A	316 stainless steel		
		B	Brass		
		C*	Kynar		
*Notes: Not yet available.					
IV.	Tube		1350	1355	
		A	-	R-2-15-A G	
		B	-	R-2-15-B G	
		C	-	R-2-15-C G	
		D	-	R-2-15-D G	
		E	-	R-6-15-A G	
		F	-	R-6-15-B G	
		G	R-2-65-A G	R-2-15-AAAA G	
		H	R-2-65-B G		
		J	R-2-65-C G		
		K	R-2-65-D G		
		L	R-6-65-A G		
		M	R-6-65-B G		
		N*	No Tube		
*Notes: The options indicated are not available with a CRN certification.					
V.	Float & Direct Read Scale Selection		Float	Accuracy	Scale Inscription
		1A	*GLASS	STD-50(10%), 55(5%)	MM
		1B	*ST.STL	STD-50(10%), 55(5%)	MM
		1C	*SAPPHIRE	STD-50(10%), 55(5%)	MM
		1D	*CARBOLOY	STD-50(10%), 55(5%)	MM
		1E	*TANTALUM	STD-50(10%), 55(5%)	MM
		1G	GLASS	CALIB-50(5%), 55(3%)	MM
		1H	ST.STL	CALIB-50(5%), 55(3%)	MM
		1J	SAPPHIRE	CALIB-50(5%), 55(3%)	MM
		1K	CARBOLOY	CALIB-50(5%), 55(3%)	MM
		1L	TANTALUM	CALIB-50(5%), 55(3%)	MM
		2A	*GLASS	STD-50(10%), 55(5%)	LINEAR
		2B	*ST.STL	STD-50(10%), 55(5%)	LINEAR
		2C	*SAPPHIRE	STD-50(10%), 55(5%)	LINEAR
		2D	*CARBOLOY	STD-50(10%), 55(5%)	LINEAR
		2E	*TANTALUM	STD-50(10%), 55(5%)	LINEAR
		2G	GLASS	CALIB-50(5%), 55(3%)	LINEAR
		2H	ST.STL	CALIB-50(5%), 55(3%)	LINEAR
		2J	SAPPHIRE	CALIB-50(5%), 55(3%)	LINEAR
		2K	CARBOLOY	CALIB-50(5%), 55(3%)	LINEAR
		2L	TANTALUM	CALIB-50(5%), 55(3%)	LINEAR
		3A	*GLASS	STD-50(10%), 55(5%)	CUSTOM DECAL
		3B	*ST.STL	STD-50(10%), 55(5%)	CUSTOM DECAL
		3C	*SAPPHIRE	STD-50(10%), 55(5%)	CUSTOM DECAL
		3D	*CARBOLOY	STD-50(10%), 55(5%)	CUSTOM DECAL
		3E	*TANTALUM	STD-50(10%), 55(5%)	CUSTOM DECAL
		3G	GLASS	CALIB-50(5%), 55(3%)	CUSTOM DECAL
		3H	ST.STL	CALIB-50(5%), 55(3%)	CUSTOM DECAL
		3J	SAPPHIRE	CALIB-50(5%), 55(3%)	CUSTOM DECAL
		3K	CARBOLOY	CALIB-50(5%), 55(3%)	CUSTOM DECAL
		3L	TANTALUM	CALIB-50(5%), 55(3%)	CUSTOM DECAL
		4A	*GLASS	STD-50(10%), 55(5%)	PERCENT SCALE
		4B	*ST.STL	STD-50(10%), 55(5%)	PERCENT SCALE
		4C	*SAPPHIRE	STD-50(10%), 55(5%)	PERCENT SCALE
		4D	*CARBOLOY	STD-50(10%), 55(5%)	PERCENT SCALE
		4E	*TANTALUM	STD-50(10%), 55(5%)	PERCENT SCALE
		4G	GLASS	CALIB-50(5%), 55(3%)	PERCENT SCALE
		4H	ST.STL	CALIB-50(5%), 55(3%)	PERCENT SCALE
		4J	SAPPHIRE	CALIB-50(5%), 55(3%)	PERCENT SCALE
		4K	CARBOLOY	CALIB-50(5%), 55(3%)	PERCENT SCALE
		4L	TANTALUM	CALIB-50(5%), 55(3%)	PERCENT SCALE
*Accuracy for air and water in the preceding capacity tables will be STD-50(5%), 55(3%).					

Model Code (Continued)

Code Description	Code Option	Option Description
VI. Tube Packing and O-ring Materials		Tube Packing O-ring Meter/Valve
	A	Buna
	B	Viton
	C	Teflon(mtr), Kalrez(vlv, jack screw)
	D	Viton
	E	Viton
	F	Teflon
	G	Teflon
	H	Teflon(mtr), Kalrez(vlv, jack screw)
	J	Teflon
	K	Teflon
	L	EPR
	M	Butyl
	N	No Packing
	P	No Packing
	Q	No Packing
	R	No Packing
	S	No Packing
	T	No Packing
<i>Note: If valve assy is not required for a specific model number, select the proper code for the O-ring material of the Sho-Rate.</i>		
VII. End Fitting Composition		Fitting Material Connection Size and Type
	C	316SS 1/8" NPT
	*F	316SS 1/8" Thd.W/Locknut
	J	316SS 1/4" NPT
	* / ***K	KYNAR 1/4" NPT
	*N	316SS 1/4" Thd.W/Locknut
	R	316SS 1/8" Compression
	*U	316SS 1/8" Compression w/locknut (2 pc design)
	W	316SS 1/4" F-Rc Thd w/Locknut
	X	316SS 1/4" Compression
	*1	316SS 1/4" Compression w/locknut (2 pc design)
	3	316SS 3/8" F-Rc Thd w/Locknut
	***4	316SS 1/4" I.D.Hose
	*6	316SS Integral 5/16-24 thd.
	*7	316SS 1/4" VCR
	***8	316SS 6mm thd
<i>*Not valid for controllers</i>		
<i>***The options indicated are not available with a CRN certification.</i>		
VIII. Valve Type	A	Valve Plug
	B	NRS-316SS #1
	C	NRS-316SS #2
	D	NRS-316SS #3
	E	NRS-316SS #4
	F	NRS-316SS #5
	G	NRS-316SS #6
	H	NRS-316SS #7
	J	To Integrally Mounted 88/8900 316SS Flow Controller - Viton Diaphragm
	K	To Integrally Mounted 88/8940 316SS Flow Controller - Viton Diaphragm
	L	To Integrally Mounted 88/8900 Brass Flow Controller - Viton Diaphragm
	M	To Integrally Mounted 88/8940 Brass Flow Controller - Viton Diaphragm
	N	To Integrally Mounted 88/8900 316SS Flow Controller - Teflon Diaphragm
	P	To Integrally Mounted 88/8940 316SS Flow Controller - Teflon Diaphragm
	Q	To Integrally Mounted 88/8900 Brass Flow Controller - Buna Diaphragm
	R	To Integrally Mounted 88/8940 Brass Flow Controller - Buna Diaphragm
	S	Std. Valve Cavity - no valve assy or plug
	T	Cartridge II/III Valve - Low Flow - 316SS
	U	Cartridge II/III Valve - Med Flow - 316SS
	V	Cartridge II/III Valve - HighFlow - 316SS

Model Code (Continued)

Code Description	Code Option	Option Description
IX. Valve Cavity/Controller Location & Connection Orientation		Valve/Controller Location
		Connection Orientation
		Inlet Outlet
	1	Inlet Back Back
	5	Outlet Back Back
	9	n/a Back Back
X. Accessories	A	None
	B*	Bistable Alarm 1 Initiator
	C*	Bistable Alarm 2 Initiators
	D*	Bistable Alarm 1 Initiator with I.S. Relays 240V
	E*	Bistable Alarm 2 Initiators with I.S. Double Relays 240V
	F*	Bistable Alarm 1 Initiator with I.S. Relay 120V
	G*	Bistable Alarm 2 Initiators with I.S. Double Relays 120V
	H	Aluminum Flush Bezel for Stainless Meters
	J	Flush Panel Mtg. for Kynar Meters
	K	Panel Mount Screws
<i>*Notes: Not yet available. Release TBD</i>		
XI. Options	A	None
	B	316 Stainless Steel Frame
	C	Circular Baseplate (Aluminum)
	D	No Brooks Identification
	E	316SS Frame & No Brooks ID
	F	Circular Baseplate & No Brooks ID
	G	316SS Frame & Baseplate
	H	316SS Frame & Baseplate & No Brooks ID
	J	Stainless Steel Tag & 316SS Frame
	K	Stainless Steel Tag & Circular Baseplate (Aluminum)
	L	Stainless Steel Tag & no Brooks ID
	M	Stainless Steel Tag & 316SS Frame & No Brooks ID
	N	Stainless Steel Tag & Circular Baseplate & No Brooks ID
	P	Stainless Steel Tag & 316SS Frame & Baseplate
	Q	Stainless Steel Tag & 316SS Frame & Baseplate & No Brooks ID
	R	Stainless Steel Tag
XII. Certifications	A	None
	B*	CRN Certification
	C	International Calibration Certification (10%-1350, 5%-1355)
	D	Degrease for Oxygen Service (not MIL Spec)
	E*	CRN Cert & ICC
	F*	CRN Cert & Degrease for O2
	G	Degrease for O2 & ICC
<i>*Notes: Not yet available. Release TBD</i>		

Sample Standard Model Code

I	II	III	IV	V	VI	VII	VII	IX	X	XI
1350	G	G	1B	F	C	L	2	A	A	A

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:

Americas	☎ 1 888 554 FLOW
Europe	☎ +31 (0) 318 549 290
Asia	☎ +81 3 (0) 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
Carboloy	General Electric Co.
Kalrez	DuPont Performance Elastomers
Kynar	Pennwalt Corp.
NRS	Brooks Instrument, LLC
Sho-Rate	Brooks Instrument, LLC
Swagelok	Swagelok Co.
Teflon	E.I. DuPont de Nemours & Co.
VCR	Swagelok Co.
Viton	DuPont Performance Elastomers

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