



GT1600 Model

## DATA SHEET- data

Variable Area

# Model GT1600

Industrial Glass Tube  
Variable Area Flow Meters

### Features

- Configurable to retro-fit GT10xx, GT130x and Full-View
- 360 degrees rotatable viewing angle
- High quality materials for safety, in- and outdoor durability
- 316 stainless steel frame
- Polycarbonate safety shield
- 316/316L dual certified stainless steel process fittings
- Alarms for high- and low flow (optional for all flow ranges, either at time of order, or as add-on in the field)
- Flanged or threaded connections, available horizontal and vertical
- Panel- and wall mount options
- Easy in-situ maintenance: Clean or replace tube and float without removal from the process piping
- Adjust the scale to compensate for process variation
- Optional integral needle valve

### Product Specifications

Flow Accuracy	Standard: $\pm 10\%$ , $\pm 5\%$ , $\pm 2\%$ Full Scale, Class 2.5 acc VDI/VDE Optional: $\pm 1\%$ Full Scale, Class 1.6 acc VDI/VDE
Repeatability	$\leq 0.5\%$ Full Scale
Capacities and Pressure Drops	See Capacities
Scales	Transparent scale. Adjustable Nominal Lengths: 75mm, 127mm and 250mm Choice of direct reading units, millimeter or percentage of maximum flow with factor tag.
Ambient Temperature Limits	-4°F to 125°F   -20°C to 52°C
Operating Fluid Temperature Limits	33 to 250°F   1°C to 121°C
Mounting options	In-line Panel-mount (see Dimensions) Wall-mount (see Dimensions)

[View GT1600  
Product Page](#)

**BROOKS**<sup>®</sup>  
INSTRUMENT





*Beyond Measure*

# Product Specifications

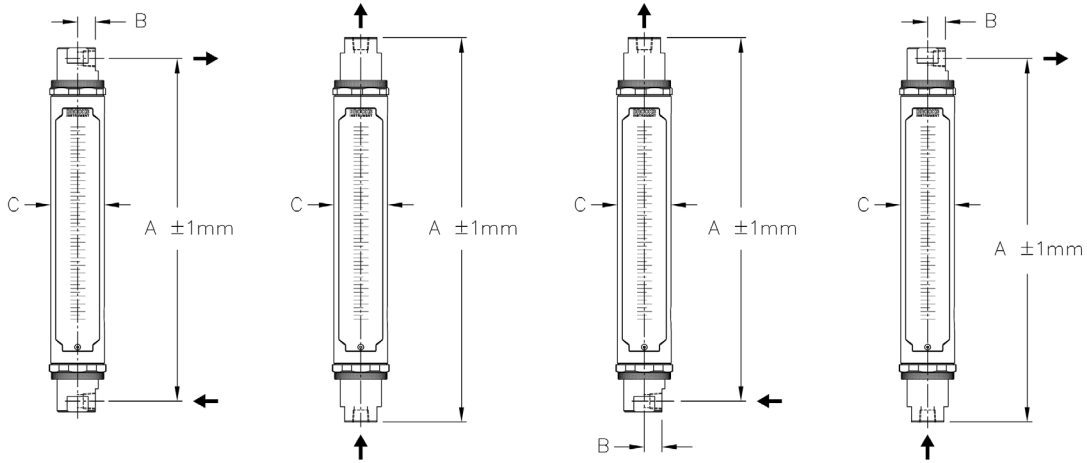
Process connections	<b>NPT Threaded</b>		<b>Flanged ANSI 150# RF</b>		
	Horizontal IN/OUT		Horizontal IN/OUT		
	Vertical IN/OUT		Vertical IN/OUT		
	Horizontal IN/ Vertical OUT		Horizontal IN/ Vertical OUT		
	Vertical IN/ Horizontal OUT		Vertical IN/ Horizontal OUT		
Pressure Ratings		Maximum Operating Pressure (PSIG   bar) at Fluid Temperature			
	Tube size	<b>Threaded process connections</b>		<b>Flanged process connections</b>	
		psi	bar	psi	bar
	02	300	20.7	240	16.5
	06	300	20.7	240	16.5
	07	300	20.7	240	16.5
	08	250	17.0	240	16.5
	09	200	13.8	200	13.8
10	175	12.1	175	12.1	
Materials of construction	Metering Tube (wetted)	Borosilicate glass			
	Process fittings (wetted)	316/316L (dual certified stainless steel)			
	Float (wetted)	Sizes 2&6: Carbology® or 316/316L (dual certified stainless steel)			
		Sizes 7-10: 316/316L (dual certified stainless steel)			
	Float Stops (wetted)	Teflon®			
	O-rings (wetted)	Viton®, Buna-N, Kalrez®, EPDM			
	Housing	316 stainless steel			
	Window & safety shield	Polycarbonate with UV inhibitor			
Hardware	316 stainless steel				
Alarms	Tube size 02&06	Ring initiator high / low alarm			
	Tube size 07-10	Reed switch high / low alarm			
	Hazardous area approvals	Zone1/Zone2 (CSA/ATEX/IECex) – gas/dust. Protection method Ex-m (no barrier)			
		Div1/Div2 (CSA) – gas/dust. Protection method I.S. / Non-incendive			
Valve	Optional integral needle valve				
Certifications	International Calibration Certificate				
	Material Certification to DIN 3.1				
	Declaration of Compliance 2.1 Oxygen Service				

# Product Specifications - Capacities

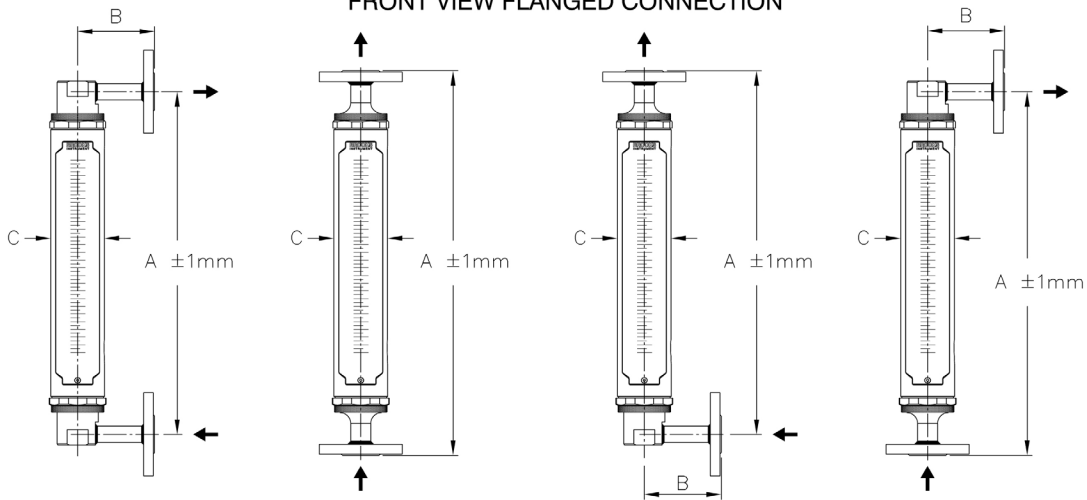
AA1:L48

			Full Scale - Water				Full Scale - Air				
127-Low Flow	Tube	Float	cc/min	l/h	Pressure Drop inch W.C./kPa	V.I.C. cSt	SLPM	ln/h	Pressure Drop inch W.C./kPa	Alarm Type	
	Size 02	R-2-127-AAAAT	316SS	1.9	0.11	0.7/0.17	1.0	0.11	6.7	0.8/0.19	Ring Initiator
		R-2-127-AAAAT	Carboly	3.7	0.22	1.1/0.27	1.0	0.2	12	1.2/0.3	
		R-2-127-AAT	Carboly	6.1	0.37	1.2/0.29	1.0	0.32	19	1.5/0.37	
		R-2-127-DT	316SS	16	0.96	0.9/0.22	1.0	0.71	43	1.0/0.24	
		R-2-127-DT	Carboly	28	1.7	1.5/0.38	1.0	1	61	1.7/0.42	
		R-2-127-AT	316SS	39	2.3	1.1/0.27	1.0	1.4	86	1.2/0.3	
		R-2-127-AT	Carboly	58	3.5	1.9/0.47	1.0	2	120	2.1/0.52	
		R-2-127-BT	316SS	110	6.8	1.8/0.45	1.0	3.9	230	2.0/0.21	
		R-2-127-BT	Carboly	170	10	3.0/0.75	1.0	5.7	340	3.3/0.83	
	R-2-127-CT	Carboly	280	17	6.1/1.51	1.0	9.5	570	4.8/1.2		
	Size 06	R-6-127-AT	316SS	410	25	6.1/1.53	1.0	14	850	6.8/1.7	
		R-6-127-AT	Carboly	620	37	10.5/2.61	1.0	20	1200	11.6/2.9	
		R-6-127-BT	316SS	1000	65	30.1/7.5	1.0	35	2100	33.3/8.3	
R-6-127-BT		Carboly	1500	95	57.8/14.4	1.0	49	2900	64.2/16		
250-High Flow	Tube	Float	GPM	l/h	Pressure Drop inch W.C./kPa	V.I.C. cSt	SCFM	m3n/h	Pressure Drop inch W.C./kPa		
	Size 07	R-7M-25-1FT	7-XV-11A-A	0.48	100	8/2	1.0	1.8	3.1	10/2.5	Reed Switch
			7-XS-23-A	0.77	170	16/4.0	1.0	3.3	5.6	17/4.2	
	Size 08	R-8M-25-4FT	8-XV-8-A	1.00	240	5/1.5	3.7	4.4	7.5	5/1.3	
			8-XV-14-A	1.40	320	8/2	5.4	5.8	9.9	8/2	
			8-XV-31-A*	2.00	460	16/4	7.0	14	24	17/4.3	
	Size 09	R-9M-25-3FT	9-XS-33-A	3.20	730	4/1	2.3	13	22	8/2	
			9-XV-87-A*	3.90	890	14/3.5	17	28	48	16/4	
			9-XS-87-A*	5.10	1100	18/4.5	3.5	36	62	19/4.8	
	Size 10	R-10M-25-3FT	10-XV-64-A	6.20	1400	12/3	15	25	43	14/3.5	
			10-XS-64-A	7.80	1700	16/4	3.7	32	54	18/4.5	
			10-XS-138-A*	10.00	2400	30/7.5	5.5	80	130	36/9	
			10-XJ-238-A*	21.00	4800	104/26	1.0	150	270	16/4	
	127-High Flow	Tube	Float	GPM	l/h	Pressure Drop inch W.C./kPa	V.I.C. cSt	SCFM	m3n/h	Pressure Drop inch W.C./kPa	
	Size 07	R-7M-127-1FT	7-XV-11A-A	0.41	93	8/2	1.0	1.8	3.1	10/2.5	Reed Switch
			7-XS-23-A	0.66	150	16/4.0	1.0	2.7	4.6	17/4.2	
	Size 08	R-8M-127-4FT	8-XV-8-A	0.99	220	5.0/1.25	3.7	4	6.9	6.0/1.5	
			8-XV-14-A	1.3	310	8.0/2	5.4	5.3	9.1	10/2.5	
			8-XV-31-A*	1.7	400	24/6	7.0	11	20	28/7	
	Size 09	R-9M-127-3FT	9-XS-33-A	3.0	690	7.0/1.7	2.3	12	21	8.0/2.0	
			9-XV-87-A*	3.6	830	14/3.5	17	26	44	16/4.0	
			9-XS-87-A*	4.5	1000	17/4.2	3.5	32	55	20/5.0	
	Size 10	R-10M-127-3FT	10-XV-64-A	6	1300	9/2.25	15	24	41	10/2.5	
			10-XS-64-A	7.4	1600	12/3	3.7	30	52	13/3.25	
			10-XS-138-A*	9.8	2200	29/7.25	5.5	68	110	33/8.25	
			10-XJ-238-A*	20	4700	104/26	1.0	140	250	16/4	
	075-High Flow	Tube	Float	GPM	l/h	Pressure Drop inch W.C./kPa	V.I.C. cSt	SCFM	m3n/h	Pressure Drop inch W.C./kPa	
	Size 08	R-8M-75-1	8-XV-8-A	0.82	180	8/2		3.3	5.6	9/2.25	Reed Switch
			8-RJ-10	1.5	340	9/2.25		6.3	10	11/2.7	
			8-RJ-23	2.4	540	13/3.25		9.9	16	15/3.7	
			8-RJ-30	3.1	710	19/4.8		13	22	22/5.5	
			8-RJ-39	4.7	1000	34/6					
	Size 10	R-10M-75-3	10-RJ-80	12	2700	18/4.5					
			10-RJ-180	21	4900	71/17.6					
			10-RJ-37					24	40	18/4.5	
			10-RJ-83					36	62	35/8.7	
			10-RJ-90					55	93	71/17.6	

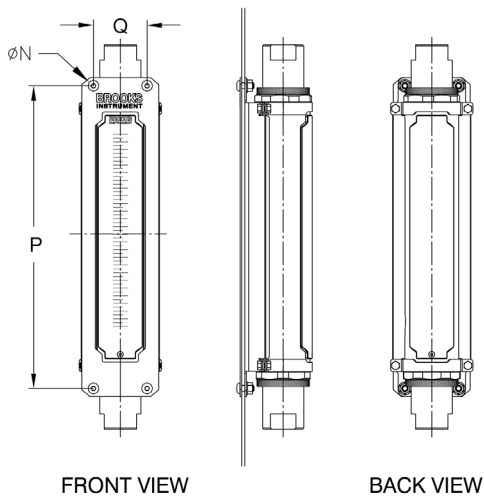
## FRONT VIEW THREADED CONNECTION



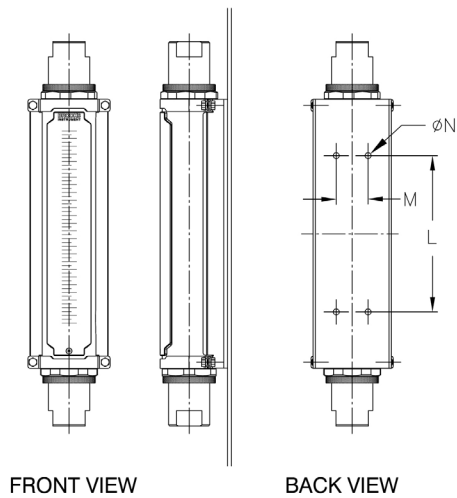
## FRONT VIEW FLANGED CONNECTION




### PANEL MOUNTING BRACKET (RECTANGULAR PANEL CUT-OUT + 4 MTG. HOLES)



### WALL MOUNTING BRACKET (4 MOUNTING HOLES)



# Product Description - Dimensions

Meter type	Tube size	Process connection	Orientation H(orizontal) V(ertical)	Notes	Retro-fit	Model	Dimension															
							A		B		C		L		M		N		P		Q	
							inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
127-Low Flow 	02 06	NPT-F	H-IN / H-OUT	Standard dimensions <sup>(3)</sup>	GT1000	1020	8.59	218.3	0.59	15.0	1.97	50.0	4.00	101.6	1.00	25.4	0.24	6.0	7.24	184	1.48	37.6
			V-IN / V-OUT			1024	9.84	250.0	-	-												
			H-IN / H-OUT			1026	9.22	234.1	0.59	15.0												
			V-IN / H-OUT			1027	9.22	234.1	0.59	15.0												
			H-IN / H-OUT	Retrofit only <sup>(4)</sup>	Full-View	1110	8.59	218.3	0.59	15.0												
			V-IN / V-OUT			1114	9.63	244.5	-	-												
			H-IN / H-OUT			1140	9.11	231.4	0.59	15.0												
			V-IN / H-OUT			1144	9.11	231.4	0.59	15.0												
			H-IN / H-OUT	Standard dimensions <sup>(3)</sup>	GT1000	1020	8.59	218.3	3.50	75.0												
			V-IN / V-OUT			1024	10.63	270.0	-	-												
			H-IN / V-OUT			1026	9.61	244.1	2.95	75.0												
			V-IN / H-OUT			1027	9.61	244.1	2.95	75.0												
			H-IN / H-OUT	Retrofit only <sup>(4)</sup>	Full-View	1140	8.59	218.3	3.00	101.6												
			V-IN / V-OUT			1144	14.88	377.8	-	-												
H-IN / V-OUT	1146	11.73	298.1			3.00	101.6															
V-IN / H-OUT	1147	11.73	298.1			3.00	101.6															

Note (3) - Standard dimension are for new installations

Note (4) - Retro-fit dimensions are for replacement of GT100x, GT130x and Full-View meters in existing installation. Not for use in new installations.

# Product Specifications - Dimensions







Meter type	Tube size	Process connection	Orientation H(orizontal) V(ertical)	Notes	Retro-fit	Model	Dimension											
							A		B		C		L		M		N	
							inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
127-High Flow	07 08 09 10	NPT-F	H-IN / H-OUT	Standard dimensions <sup>(3)</sup>			12.31	312.7	0.91	23.0	2.76	70.0	N/A					
			V-IN / V-OUT				14.50	368.2	-	-								
			H-IN / V-OUT				13.41	340.5	0.91	23.0								
			V-IN / H-OUT				13.95	354.4	0.91	23.0								
			H-IN / H-OUT #7/8	Retrofit only <sup>(4)</sup>			Full-View	1110	11.50	292.1						0.91	23.0	
			H-IN / H-OUT #9/10						12.50	317.5						-	-	
			V-IN / V-OUT #7/8						12.00	304.8						-	-	
			V-IN / V-OUT #9/10						12.25	311.2						-	-	
	H-IN / V-OUT #7/8	Retrofit only <sup>(4)</sup>	Full-View	1116	11.75	298.5	0.91	23.0										
	H-IN / V-OUT #9/10				12.38	314.3	-	-										
	V-IN/ H-OUT #7/8				11.75	298.5	0.91	23.0										
	V-IN/ H-OUT #9/10				12.38	314.3	-	-										
	V-IN / V-OUT	Retrofit only <sup>(4)</sup>	GT1306	1306	11.75	298.5	-	-										
	Flanged 150lbs RF			H-IN / H-OUT #7/8	Standard dimensions <sup>(3)</sup>			12.31	312.7	3.94						100.0		
				H-IN / H-OUT #9/10				4.72	120.0	-						-		
				V-IN / V-OUT #7/8				14.50	368.2	-						-		
				V-IN / V-OUT #9/10				13.41	340.5	3.94						100.0		
				H-IN / V-OUT #7/8	Retrofit only <sup>(4)</sup>			Full-View	1140	13.41						340.5	4.72	120.0
				H-IN / V-OUT #9/10						13.41						340.5	3.94	100.0
				V-IN/ H-OUT #7/8						11.50						292.1	3.50	88.9
V-IN/ H-OUT #9/10				12.50						317.5	4.00	101.6						
H-IN / H-OUT #7/8				Retrofit only <sup>(4)</sup>	Full-View			1144	17.88	454.0	-	-						
H-IN / H-OUT #9/10									17.50	444.5	-	-						
V-IN / V-OUT #7/8									14.69	373.0	3.50	88.9						
V-IN / V-OUT #9/10									15.00	381.0	4.00	101.6						
H-IN / V-OUT #7/8	Retrofit only <sup>(4)</sup>	Full-View	1146	14.69	373.0	3.50	88.9											
H-IN / V-OUT #9/10				15.00	381.0	4.00	101.6											
V-IN/ H-OUT #7/8				14.69	373.0	3.50	88.9											
V-IN/ H-OUT #9/10				15.00	381.0	4.00	101.6											

Note (3) - Standard dimension are for new installations

Note (4) - Retro-fit dimensions are for replacement of GT10xx, GT130x and Full-View meters in existing installation. Not for use in new installations.

# Product Approvals Overview

## Product Approvals Overview

Declarations	Mark	Meter Options			Standards/Directives/Marking	Status/Certificate
		Mechanical	Reed Switch	Inductive Alarm		
EU Declaration of Conformity				✓	EMC Directive (2014/30/EU)	Declaration
		✓	✓	✓	RoHS Directive (2011/65/EU)	Declaration
		✓	✓	✓	Pressure Equipment Directive (2014/68/EU)	Declaration
			✓		EMC Directive (2014/30/EU) The equipment uses a reed switch sensor & is outside the scope of the directive since the inherent nature of the physical characteristics of which is such that: (i) it is incapable of generating or contributing to electromagnetic emissions which exceed a level allowing radio and telecommunication equipment and other equipment to operate as intended; and (ii) it operates without unacceptable degradation in the presence of the electromagnetic disturbance normally consequent upon its intended use.	
				✓	EMC Directive (2014/30/EU)	Declaration
Explosion safety "encapsulation (m)"			✓	II 2 G Ex mb IIC T6 Gb II 2 D Ex mb IIIC T85°C Db (Standard Version) II 2 G Ex mb IIC T5 Gb II 2 D Ex mb IIIC T100°C Db (With Junction box Version)	KIWA 18ATEX0013 X	
			✓	Ex mb IIC T6 Gb Ex mb IIIC T85°C Db (Standard Version) Ex mb IIC T5 Gb Ex mb IIIC T100°C Db (With Junction box Version)	IECEX KIWA 18.0008X	
				Standards used for evaluation: EN 60079-0 : 2012+A11: 2013, EN 60079-18 : 2015 IEC 60079-0 : 2011, IEC 60079-18 : 2014 Ambient Temperature range: -20 °C to +65 °C (Standard Version) -20 °C to +55 °C (With Junction box Version) Input Power: 30V, 250mA, 3W Special conditions for safe use: Refer to IOM		
Explosion safety "Intrinsic Safety (ia)"			✓	Reed Switch Alarms are classified as "Simple Apparatus" when used in Intrinsically Safe circuits. They comply with the requirements of EN60079-11 clause 5.7 – Simple apparatus. Ambient Temperature ratings: -20 °C ≤ Tamb ≤ 65 °C Input parameters: Vmax = 30V, Imax = 100mA, Ci = 0µF, Li = 0µH Special conditions for safe use: Refer to IOM		
Explosion safety "Intrinsic Safety (ia)"			✓	IS Class I, II, III, Div 1, Groups A, thru G	UL File E73889 Vol3 Sec 6	
Explosion safety "Intrinsic Safety (ia)"	 		✓	Inductive Ring Sensor Pepperl + Fuchs Model: RC10-14-N3-Y53478 Pepperl + Fuchs Model: RC15-14-N3-Y53479 <u>Non-Hazardous Locations</u> Power Supply: Nominal Voltage 8V Operating Voltage 5...25V Current consumption: Active area clear : 3mA (at 8V) Active area obscured: 0.5...0.95mA (at 8V) Ambient Temperature: 0°C to 40°C	Pepperl + Fuchs PTB 99 ATEX 2128 X  Pepperl + Fuchs Control Drawing:116-0165G	
		✓	<u>Hazardous Location</u> II 2 G Ex ia IIC T6...T1 Gb IP67 ATEX Refer to ATEX Certificate for: Input parameters, Max Ambient Temperature, Special conditions for use			
		✓	FM Approvals Class I, Division 1, Group A, B, C, Class II, Division 1, Group E, F, G, Class III, Division 1 Class I, Zone 0, Group IIC T6			
Explosion safety "Constructional safety (c)"		✓		II 2 G Ex h IIC T6...T4 Gb II 2 D Ex h IIIC T120°C Db <b>Special conditions for safe use:</b> Refer to IOM	TCF: 203104000-1604	

**Code Description<sup>1</sup> Code Option Option Description<sup>1</sup>**

I-II. Base Model Number	16	Horizontal Inlet and Outlet
III. Body - Flow/Scale Length		Body Flow      Scale Length
	1	250-High Flow      250mm
	2	127-High Flow      127mm
	3	075-High Flow      75mm
	4	127-Low Flow      127mm
IV. Connection Orientation	0	Horizontal Inlet - Horizontal Outlet
	4	Vertical Inlet - Vertical Outlet
	6	Horizontal Inlet - Vertical Outlet
	7	Vertical Inlet - Horizontal Outlet
V. Model Revision	A	Initial release of global model code

Code	250 - High Flow							
	Water				Air			
	GPM	l/h	SCFM	m3n/h	Tube	Float		
JC	0.48	100	1.8	3.1	J	R-7M-25-1FT	C	7-XV-11A-A
JF	0.77	170	3.3	5.6	J	R-7M-25-1FT	F	7-XS-23-A
KC	1.00	240	4.4	7.5	K	R-8M-25-4FT	C	8-XV-8-A
KF	1.40	320	5.8	9.9	K	R-8M-25-4FT	F	8-XV-14-A
KJ	2.00	460	14*	24*	K	R-8M-25-4FT	J	8-XV-31-A*
LC	3.20	730	13	22	L	R-9M-25-3FT	C	9-XS-33-A
LF	3.90	890	28*	48*	L	R-9M-25-3FT	F	9-XV-87-A*
LJ	5.10	1100	36*	62*	L	R-9M-25-3FT	J	9-XS-87-A*
MC	6.20	1400	25	43	M	R-10M-25-3FT	C	10-XV-64-A
MF	7.80	1700	32	54	M	R-10M-25-3FT	F	10-XS-64-A
MJ	10.00	2400	80*	130*	M	R-10M-25-3FT	J	10-XS-138-A*
MM	21.00	4800	150*	270*	M	R-10M-25-3FT	M	10-XJ-238-A*

\* These codes require a back pressure of 30 psig /2 bar

Code	127 - High Flow							
	Water				Air			
	GPM	l/h	SCFM	m3n/h	Tube	Float		
SC	0.41	93	1.8	3.1	S	R-7M-127-1FT	C	7-XV-11A-A
SF	0.66	150	2.7	4.6	S	R-7M-127-1FT	F	7-XS-23-A
TC	0.99	220	4	6.9	T	R-8M-127-4FT	C	8-XV-8-A
TF	1.3	310	5.3	9.1	T	R-8M-127-4FT	F	8-XV-14-A
TJ	1.7	400	11*	20*	T	R-8M-127-4FT	J	8-XV-31-A*
UC	3	690	12	21	U	R-9M-127-4FT	C	9-XS-33-A
UF	3.6	830	26*	44*	U	R-9M-127-4FT	F	9-XV-87-A*
UJ	4.5	1000	32*	55*	U	R-9M-127-4FT	J	9-XS-87-A*
VC	6	1300	24	41	V	R-10M-127-3FT	C	10-XV-64-A
VF	7.4	1600	30	52	V	R-10M-127-3FT	F	10-XS-64-A
VJ	9.8	2200	68*	110*	V	R-10M-127-3FT	J	10-XS-138-A*
VM	20	4700	140*	250*	V	R-10M-127-3FT	M	10-XJ-238-A*

\* These codes require a back pressure of 30 psig/2 bar

Code	075 - High Flow							
	Water				Air			
	GPM	l/h	SCFM	m3n/h	Tube	Float		
PC	0.82	180	3.3	5.6	P	R-8M-75-1	C	8-XV-8-A
PF	1.5	340	6.3	10	P	R-8M-75-1	F	8-RJ-10
PJ	2.4	540	9.9	16	P	R-8M-75-1	J	8-RJ-23
PM	3.1	710	13	22	P	R-8M-75-1	M	8-RJ-30
PQ	4.7	1000	N/A	N/A	P	R-8M-75-1	Q	8-RJ-39
RC	12	2700	N/A	N/A	R	R-10M-75-3	C	10-RJ-80
RF	21	4900	N/A	N/A	R	R-10M-75-3	F	10-RJ-180
RJ	N/A	N/A	24	40	R	R-10M-75-3	J	10-RJ-37
RM	N/A	N/A	36	62	R	R-10M-75-3	M	10-RJ-83
RQ	N/A	N/A	55	93	R	R-10M-75-3	Q	10-RJ-90

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Code Description <sup>1</sup>	Code Option	Option Description <sup>1</sup>
VI.-VII. Maximum Flowrate (continued)	127 - Low Flow	
		Water                      Air
	Code	GPH    l/h            SLPM    In/h                      Tube                      Float
	A3	1.9    0.11            0.11    6.7                      A            R-2-127-AAAAT    3            316SS
	A6	3.7    0.22            0.2     12                      A            R-2-127-AAAAT    6            CARBOLOY
	B6	6.1    0.37            0.32    19                      B            R-2-127-AAT        6            CARBOLOY
	C3	16     0.96            0.71    43                      C            R-2-127-DT        3            316SS
	C6	28     1.7             1        61                      C            R-2-127-DT        6            CARBOLOY
	D3	39     2.3             1.4     86                      D            R-2-127-AT        3            316SS
	D6	58     3.5             2        120                     D            R-2-127-AT        6            CARBOLOY
	E3	110    6.8             3.9     230                     E            R-2-127-BT        3            316SS
	E6	170    10              5.7     340                     E            R-2-127-BT        6            CARBOLOY
	F6	280    17              9.5     570                     F            R-2-127-CT        6            CARBOLOY
	G3	410    25              14      850                     G            R-6-127-AT        3            316SS
	G6	620    37              20      1200                    G            R-6-127-AT        6            CARBOLOY
	H3	1000   65              35      2100                    H            R-6-127-BT        3            316SS
H6	1500   95              49      2900                    H            R-6-127-BT        6            CARBOLOY	
VIII. Fitting Material	A	316 Stainless Steel
	B	316 Stainless Steel w/ CRN
IX. Connection Size	1	1/4" Low Flow
	2	1/2" High Flow
	3	3/4" High Flow
	4	1" High Flow
	5	1" Vertical / 3/4" Horizontal. Size 10 only.
X. - XI. Connection Type	AA	Standard / GT1000 Retrofit                      NPT - Female
	AB	Standard / GT1000 Retrofit                      ANSI #150 RF Flange
	BA	Retrofit GT130x                                      NPT - Female
	CA	Retrofit Full-View 11xx                            NPT - Female
	CB	Retrofit Full-View 11xx                            ANSI 150# RF Flange
	DC	Retrofit GT1000                                      Rc - Female\
XII. O-Ring Material	1	Viton® fluoroelastomer
	2	Buna
	3	Kalrez <sup>®</sup>
	4	EPDM
XIII. Scale Inscription	1	MM Scale
	2	Percent Scale
	3	Direct Reading Scale
	4	Dual Scale
XIV. Meter Accuracy	A	±10%
	B	±5% Full Scale
	C	±5% w/calibration
	D	±2% Full Scale
	E	±2% Full Scale w/calibration
	F	±1% Full Scale w/calibration
	G	2.5 VDI/VDE w/calibration
	H	1.6 VDI/VDE w/calibration
XV. Valve Type/Location	0	None
	1	Valve at Inlet
	2	Valve at Outlet
XVI. Alarm	0	None
	1	1 Switch/Sensor
	2	2 Switches/Sensors
XVII. Approvals	A	None
	B	ATEX - Zone 1 & Zone 2, non-Electrical
	C	UL / FM - Hazardous location
	D	ATEX - Zone 1 & Zone 2, Electrical

Sample Standard Model Code

I-II	III	IV	V	VI-VII	VIII	IX	X-XI	XII	XIII	XIV	XV	XVI	XVII
16	1	4	A	D0	A	2	AA	1	3	D	0	0	A

· CONDULET JUNCTION BOX ASSEMBLY

<i>from 16xxG Model Code, position 16</i>		Part Numbers for Relays
Option Code	Description	
Alarm		
0	None	
1	1 Switch/Sensor	203Z023AAA
2	2 Switches/Sensor	203Z023AAA

· RELAY

<i>from 16xxG Model Code, position 16</i>		Part Numbers for Relays		
Alarm		-----		
Option Code	Description	110VAC 1 or 2 relay	220VAC 1 or 2 relay	24VAC 1 or 2 relay
0	None			
1	1 Switch/Sensor	029G008ZZZ	or	029G010ZZZ or 029G012ZZZ
2	2 Switches/Sensor	029G008ZZZ	or	029G010ZZZ or 029G012ZZZ

· FRONT PANEL MOUNTING KIT

- #2-6 778Z018AAA 127mm
- #7-10 778Z019AAA 250mm

· BACK PANEL MOUNTING KIT

- #2-6 778Z020AAA 127mm
- #7-10 778Z021AAA 250mm

· 3.1 Material Cert

- International Calibration Certificate (ICC)
- NACE MR0175 MR0103
- PMI
- Clean for Oxygen Service 2.1
- Declaration of Compliance 2.1
- Pressure Test Certificate 2.2
- Commercial Cleaning

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](http://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.

## TRADEMARKS

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