

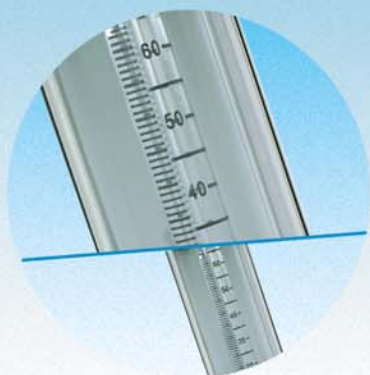
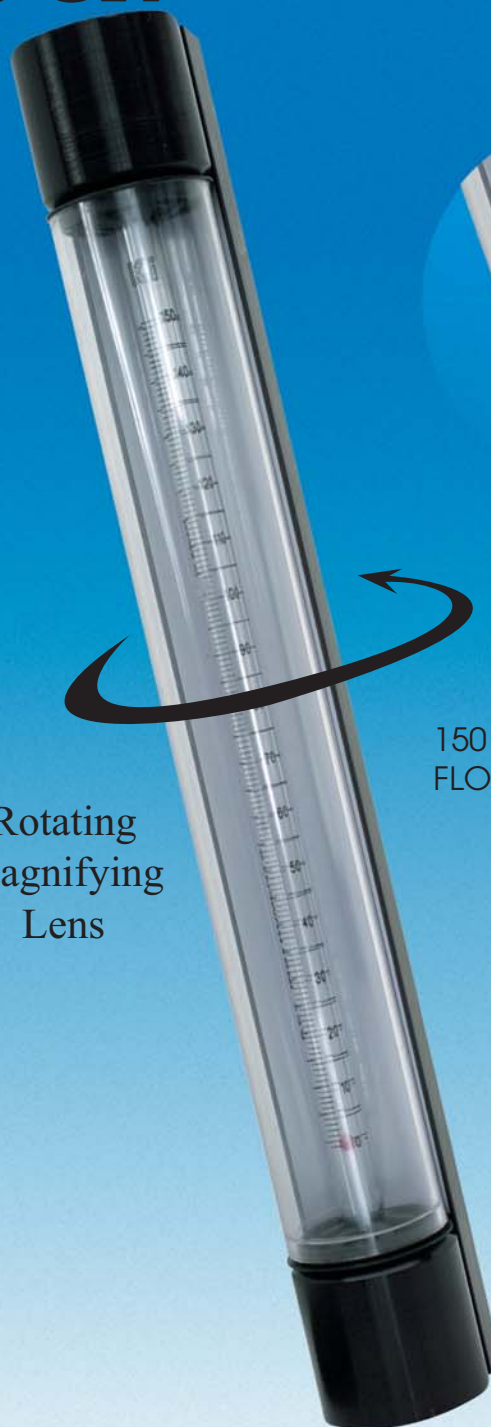
Flo-Rite™ Series GR FLOWMETERS

65 MM
FLOWMETER



Rotating
Magnifying
Lens

150 MM
FLOWMETER



FEATURING "E-Z" CHANGE FLOW TUBES



KEY INSTRUMENTS

250 Andrews Road, Trevose, PA 19053

800.356.7483 • 215.357.0893
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www.keyinstruments.com
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Series GR Glass Tube Flowmeters

“E-Z” CHANGE FLOWTUBES

SPECIFICATIONS	
ACCURACY:	65 MM SCALE \pm 5% FULL SCALE 150 MM SCALE \pm 3% FULL SCALE
FLOATS:	BLACK GLASS SAPPHIRE STAINLESS STEEL CARBOLOY TANTALUM
BACK PLATE:	ALUMINUM
END BLOCKS: STD. SEALS & FITTINGS:	ALUMINUM W/ BUNA “N” BRASS W/ BUNA “N” STAINLESS STEEL W/ VITON®
TUBE:	BOROSILICATE GLASS
PRESSURE:	200 P.S.I.G.
TEMPERATURE:	200°F/ 93°C

- STANDARD MILLIMETER SCALES WITH FLOW CURVES PERMIT MULTIPLE FLUID & GAS USE WITH A SINGLE TUBE
- SCALES: 65 MILLIMETER
150 MILLIMETER
- FLOWMETER AVAILABLE WITH:
NO VALVE
CARTRIDGE VALVE OR
PRECISION CONTROL VALVE
- INLET VALVE STANDARD/ OUTLET VALVE AVAILABLE
- E-Z CHANGE DESIGN ALLOWS QUICK INTERCHANGEABILITY OF TUBE ASSEMBLIES
- GLASS TUBE ALLOWS COMPATIBILITY WITH MOST GASES AND FLUIDS
- ROTATING LENS ALLOWS 180° VIEW WITH MAGNIFICATION
- DIRECT READING SCALES AVAILABLE UPON REQUEST

MAXIMUM RANGES AVAILABLE:

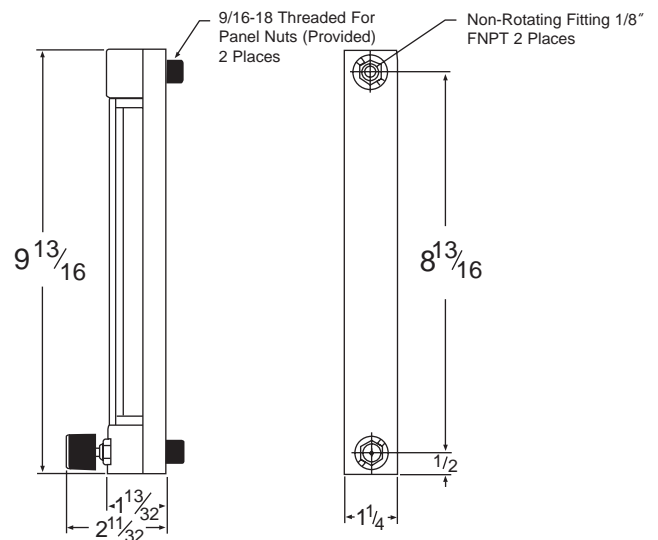
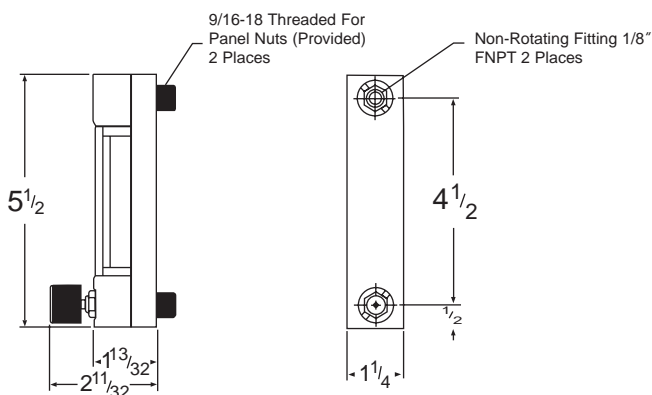
TURNDOWN \geq 10:1 WITH SINGLE FLOAT OR
TURNDOWN \geq 20:1 WITH DUAL FLOATS

65 MM TUBES: 51 CCM TO 65 LPM AIR @ STP
21.4 CCM TO 2 LPM WATER @ STP

150 MM TUBES: 50 CCM TO 66 LPM AIR @ STP
22.2 CCM TO 2 LPM WATER @ STP

65 MM FLOWMETER						
Inches	5-1/2	1-13/32	2-11/32	1-1/4	4-1/2	1/2
Millimeters	140	35.7	59.5	31.8	114	12.7

150 MM FLOWMETER						
Inches	9-13/16	1-13/32	2-11/32	1-1/4	8-13/16	1/2
Millimeter	249	35.7	59.5	31.8	224	12.7



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65 MM			
MODEL #	FLOAT	AIR (CCM)	WATER (CCM)
GR60110	G	51	
GR60120	S	82	
GR60130	ST	153	
GR60140	C	284	
GR60150	T	(A) 310	
GR60210	G	103	
GR60220	S	160	
GR60230	ST	298	
GR60240	C	498	
GR60250	T	(A) 546	
GR60310	G	400	
GR60320	S	550	
GR60330	ST	855	21.4
GR60340	C	1275	35.4
GR60350	T	(A) 1360	38.4
GR60410	G	900	18.2
GR60420	S	1200	29.6
GR60430	ST	1800	50.1
GR60440	C	2620	76.1
GR60450	T	(A) 2790	82.4
GR60510	G	2580	55
GR60520	S	(A) 3350	85
GR60530	ST	5030	140
GR60540	C	7270	215
GR60550	T	(B) 7710	230
GR60610	G	3930	90
GR60620	S	(A) 5080	130
GR60630	ST	7510	220
GR60640	C	10700	325
GR60650	T	(B) 11315	345
GR60710	G	6000	130
GR60720	S	(B) 7800	200
GR60730	ST	11450	335
GR60740	C	(B) 16340	500
GR60750	T	(C) 17250	535
GR60810	G	10100	235
GR60820	S	(B) 12980	350
GR60830	ST	18960	560
GR60840	C	(B) 26525	830
GR60850	T	(C) 28115	885
GR60910	G	(B) 15750	375
GR60920	S	20170	545
GR60930	ST	(B) 29400	880
GR60940	C	(B) 41175	1305
GR60950	T	(C) 43410	1385
GR61010	G	23640	570
GR61020	S	(B) 30090	825
GR61030	ST	(B) 43340	1305
GR61040	C	(B) 61120	1920
GR61050	T	(C) 65850	2055

150 MM			
MODEL #	FLOAT	AIR (CCM)	WATER (CCM)
GR10110	G	50	
GR10120	S	78	
GR10130	ST	152	
GR10140	C	281	
GR10150	T	(A) 315	
GR10210	G	106	
GR10220	S	167	
GR10230	ST	308	
GR10240	C	497	
GR10250	T	(A) 540	
GR10310	G	400	
GR10320	S	555	
GR10330	ST	870	22.2
GR10340	C	1300	36.2
GR10350	T	(A) 1400	39.5
GR10410	G	855	18
GR10420	S	1135	27.6
GR10430	ST	1710	47.5
GR10440	C	2465	73.2
GR10450	T	(A) 2640	78.8
GR10510	G	2290	50
GR10520	S	(A) 2980	75
GR10530	ST	4480	125
GR10540	C	6475	190
GR10550	T	(B) 6805	205
GR10610	G	3425	75
GR10620	S	(A) 4465	115
GR10630	ST	6600	190
GR10640	C	9475	285
GR10650	T	(B) 9990	305
GR10710	G	9180	215
GR10720	S	(B) 11990	315
GR10730	ST	17810	515
GR10740	C	(B) 24970	765
GR10750	T	(C) 26170	825
GR10810	G	23740	565
GR10820	S	(B) 30270	830
GR10830	ST	44050	1335
GR10840	C	(B) 61410	1950
GR10850	T	(C) 66370	2080

FLOAT MATERIAL CODES
 0 = NO FLOAT
 1 = BLACK GLASS (G)
 2 = SAPPHIRE (S)
 3 = STAINLESS STEEL (ST)
 4 = CARBOLOY (C)
 5 = TANTALUM (T)

*NOTE: A, B & C indicate float price adders. Please consult price list for details.
 Periodically, product revisions occur. Please consult the factory for the latest specifications.



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CATALOG NUMBER ORDERING EXAMPLE: GR60110SVV

HOW TO ORDER:

EXAMPLE:	GR	6	01	1	0	S	V	V
GLASS FLOWMETER _____ PRODUCT CODE								
TUBE SCALE _____ LENGTHS 65 MM = 6 OR 150 MM = 1								
TUBE SIZE _____ 01 THRU 10 (SELECT FROM FLOW RATE CHART)								
FLOAT MATERIAL _____ 1 THRU 5 (SELECT FROM FLOW RATE CHART)								
FLOAT MATERIAL- DUAL FLOAT _____ 1 THRU 5 (THIS MUST SPECIFIED. STANDARD METER SUPPLIED WITH ONE FLOAT.) 0 DESIGNATION = NO FLOAT								
END BLOCKS MATERIAL (WETTED) _____ A = ALUMINUM B = BRASS S = STAINLESS STEEL								
VALVE DESIGNATION _____ N = NO VALVE V = STANDARD VALVE (INLET) P = PRECISION VALVE (INLET) O = STANDARD VALVE (OUTLET) R = PRECISION VALVE (OUTLET)								
O-RING MATERIAL USED IN VALVE _____ B = BUNA V = VITON® S = SPECIAL								

PLEASE BE SURE TO SPECIFY:

TUBE SCALE
TUBE SIZE
BALL FLOAT MATERIAL

END BLOCK MATERIAL
VALVE DESIGNATION
O-RING MATERIAL

FLOAT MATERIAL CODES:

0 = NO FLOAT
1 = BLACK GLASS (G)
2 = SAPPHIRE (S)
3 = STAINLESS STEEL (ST)

4 = CARBOLOY (C)
5 = TANTALUM (T)

HELPFUL CONVERSIONS:

FOR GAS: LPM X 1000 = CCM
CFH X 472 = CCM
CFM X 28230 = CCM

FOR LIQUID: LPM X 1000 = CCM
GPH X 63.09 = CCM
GPM X 3785 = CCM

FOR PRESSURE: ATM X 14.696 = PSI
ATM X 101.325 = KPA
ATM X 29.92 = IN of Hg

FOR TEMPERATURE: °C = (°F-32) x 0.555
°F = (1.8 x °C) + 32
°K = °C + 273.15



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