Flo-RiteTM Series FR Flowmeters





KEY INSTRUMENTS

250 Andrews Road, Trevose, PA 19053

800.356.7483 • 215.357.0893 Fax:215.357.9239 www.keyinstruments.com e-mail:sales@keyinstruments.com

Series FR Flowmeters

FEATURES

- Easy-to-read English or Metric Scales
- Water ranges from 4 CCM to 20 GPM Air ranges from 40 CCM to 4000 LPM
- Threaded brass inserts for quick installation
- Easy disassembly and assembly for maintenance
- Durable one-piece clear acrylic construction
- Stable, easy-to-read float
- Superior quality

SERIES FR2000 FLOW RATES TABLE A **								
RANGE	MODEL							
SCFH OF AIR	CODE		LPM OF AIR	CODE				
.1-1	2A00		.045	2A12				
.2-2	2A01		.1-1	2A13				
.4-5	2A02		.2-2.5	2A29				
1-10	2A03		.4-5	2A14				
2-20	2A04		1-10	2A15				
3-30	2A05		2-25	2A16				
4-50	2A06		4-50	2A17				
10-100	2A07		10-100	2A18				
20-200	2A08		GPH OF WATER					
CCM OF WATER			.2-2	2L28				
5-50	2L09		.4-5	2L19				
10-100	2L10		1-10	2L20				
20-240	2L11		2-20	2L21				
			4-40	2L22				

SERIES FR4000 FLOW RATES									
TABLE B **									
RANGE	MODEL	RANGE	MODEL						
SCFH OF AIR	CODE	CCM OF WATER	CODE						
.4-5	4A30	4-50	4L38						
1-10	4A31	10-120	4L56						
2-20	4A32	25-225	4L51						
4-40	4A33	40-400	4L50						
10-100	4A34	40-660	4L52						
14-150	4A35	100-1500	4L53						
20-200	4A36	200-3000	4L54						
CCM OF AIR		300-3700	4L55						
100-1000	4A39	GPH OF WATER							
LPM OF AIR		1-10	4L45						
.4-5	4A40	2-25	4L48						
1-10	4A41	4-50	4L49						
2-20	4A42	6-60	4L46						
3-30	4A43	SCFM OF AIR							
4-50	4A44	.3-3	4A37						
10-100	4A47								

APPLICATIONS

- Air sampling equipment
- Aquaculture
- Desalinization equipmentGas analyzers
- Medical systems
- Photoprocessing equipment
- Water treatment and distribution systems

SERIES FR4500 FLOW RATES TABLE C								
RANGE	MODEL	RANGE	MODEL					
SCFM OF AIR	CODE	GPM OF WATER	CODE					
.5-5	4A67	.2-2.5	4L64					
1-10	4A65	.4-5	4L66					
*2-20	4A68	LPM OF WATER						
LPM OF AIR		.8-9	4L69					
14-140	4A72	1.5-20	4L71					
30-300	4A70	Dual scales: SCFM/S	CFH,					
*60-560	4A73	GPM/GPH, and LPM	/LPH					

* Not Available with Valves

SERIES FR5000-S or V FLOW RATES TABLE D								
RANGE	MODEL	RANGE	MODEL					
SCFM OF AIR	CODE	GPM OF WATER	CODE					
3-25	5A50	.4-5	5L56					
4-50	5A51	1-10	5L57					
10-100	5A52	2-20	5L58					
LPM OF AIR		LPM OF WATER						
100-700	5A53	1-19	5L59					
100-1400	5A54	4-36	5L60					
400-3400	5A55	5-75	5L61					

SERIES FR5000-I FLOW RATES TABLE E

RANGE	MODEL	RANGE	MODEL					
SCFM OF AIR	CODE	GPM OF WATER	CODE					
3-25	5A50	.4-5	5L56					
4-50	5A51	1-10	5L57					
10-100	5A52	2-20	5L58					
LPM OF AIR		LPM OF WATER						
100-700	5A53	1-19	5L59					
100-1400	5A54	4-36	5L60					
400-4000	5A55	5-75	5L61					

** Available with millimeter scales. Flow curves for a variety of gases and liquids for specific applications may also be ordered.

Periodically, product revisions occur. Please consult the factory for the latest specifications.



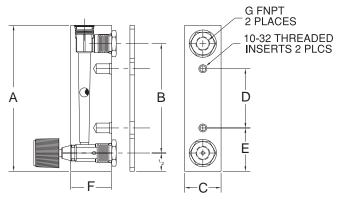
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Series FR Flowmeters

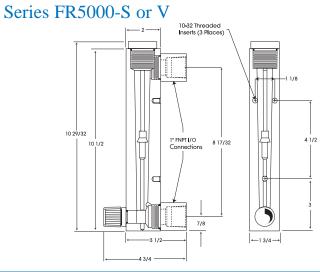
CI	DECIFICATIONS
	PECIFICATIONS
ACCURACY:	MODEL FR2000 ±5% F.S.
	MODEL FR4000 & FR4500 ±3% F.S.
	MODEL FR5000 ±2% F.S.
FLOAT:	BLACK GLASS
	STAINLESS STEEL
BODY:	CLEAR ACRYLIC
SEALS:	BUNA-N "O" RINGS WITH
	BRASS OR PVC FITTINGS
	VITON "O" RINGS WITH
	STAINLESS STEEL FITTINGS
PRESSURE:	100 PSIG MAX
TEMPERATURE:	150°F/65°C MAX
FITTINGS:	BRASS, STAINLESS STEEL OR PVC
	FNPT PIPE CONNECTIONS
VALVES:	MODEL FR2000/4000/4500
(OPTIONAL)	BRASS OR STAINLESS STEEL
	CARTRIDGE TYPE
	MODEL FR5000
	INTEGRAL VALVE ON "V" MODELS
	INLINE GATE VALVE ON "S" & "I"

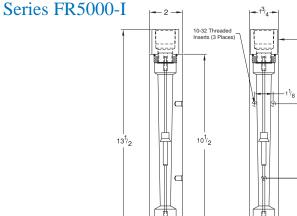
Series FR2000/FR4000/FR4500

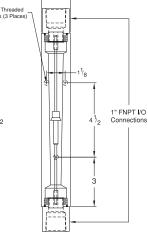


DIMENSIO	NS INCHES MILLIMETERS (MM)									
MODEL	А	A B C D E F G								
	4"	3"	1"	1-5/8"	1-3/16"	1-1/8"	1/8"			
FR2000	(102)	(76.2)	(25.4)	(41.3)	(30.2)	(28.6)				
	6-1/2"	5-1/2"	1-3/8"	3-1/2"	1-1/2"	1-1/8"	1/8"			
FR4000	(165)	(140)	(34.9)	(88.9)	(38.1)	(28.6)				
	6-5/8"	5-1/2"	1-1/8"	3-1/2"	1-1/2"	1-3/8"	1/4"			
FR4500*	(168)	(140)	(28.6)	(88.9)	(38.1)	(34.9)				

* DOES NOT INCLUDE 1/8" BACK PLATE!







FR5000-S or V PANEL MOUNT							FR5000-I			IN-L	INE									
Inches	10-29/32	10-1/2	2	3-1/2	1"	8-17/32	7/8	1-1/8	4-1/2	3		Inches	13-1/2	2	10-1/2	1"	1-1/8	1-3/4	4-1/2	3
Millimeters	273	267	50.8	88.9	1"	216	22.2	28.6	114	76.2	ĺ	Millimeters	343	50.8	267	1"	28.6	44.5	114	76.2



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Ordering Chart

2 INCH / 4 INCH SCALE ORDERING EXAMPLE - FR2A04BVBN • FR4A39SNVT

FR	MODEL CODE FROM TABLES A, B& C	FITTINGS ¹	VALVE ²	SEALS ³

5 INCH SCALE ORDERING EXAMPLE - FR5A52PS • FR5A50PI • FR5A51PV

FR	MODEL CODE FROM TABLES D & E	FITTINGS MATERIAL ⁴	FITTING/VA	LVE ⁵	
FITTINGS	TINGS ¹ VALVE ² SEALS ³		_S ³	FITTING MATERIAL ⁴	FITTING/VALVE⁵
B - Brass (sta S - Stainless St	,	BN - Buna N (std with VT - Viton (std with S - Special (specif	stainless steel)	P - PVC (std)	S - Back connections (std) I - End connection V - Valve(Back Connection Only)

Periodically, product revisions occur. Please consult the factory for the latest specifications.

FLO-RITETM FLOWMETERS- OEM APPLICATIONS

KEY INSTRUMENTS offers a wide variety of precision rotameters for use in medical, industrial, chemical, and laboratory applications. Over twenty years of experience in the manufacture of acrylic flowmeters enables us to provide a large assortment of standard styles from stock at economical prices. Our production and engineering processes are flexible enough to allow us to meet most OEM and end user requirements.

We use a primary flow standard directly traceable to the NIST (National Institute of Standards and Technology), and have implemented stringent quality control procedures to assure you of receiving a quality product that is accurate and repeatable, yet economical.

Key Instrument's flowmeters have been engineered with built-in quality, designed for economy, and stocked in sufficient quantity to meet your immediate needs as well as your long term requirements.

For additional information regarding current prices, discounts or delivery status, call Customer Service at 1-800-356-7483.





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