**4UN06** 

4UM99



## **Acrylic Variable-Area Flowmeters**

- Max. operating pressure: 100 psi
- Max. operating temp.: 150°F
- Max. viscosity: 16.4 CST

Clear acrylic meters have stable, easy-to-read floats with English or metric scales. They are integralvalved to permit individual flow control in air-sampling equipment.

			)im. (in.	.)	Center-to-Center			
Model	Accuracy	W	H	D	Fittings*	Inserts		
2510	±5%	1	4	11/8	3	15/8		
2520	±3%	13/8	61/2	11/8	51/2	31/2		
2530	±3%	11/8	65/8	13/8	51/2	31/2		
2540	±2%	13/4	1029/32	2	81/2	41/2		
* Back connection mounting.								

desalinization equipment, medical systems, water treatment and distribution systems, swimming pools, and aquaculture systems. Back-mounted meters (see Model-Accuracy-Dimensions chart) have standard 10-32 brass inserts for quick installation.

Connec. Size	Flow Range†	Center- Center Fitting Size	0-Ring	Fitting	Includes	Mfr. Model	Item No.
Air	041 51	0 '	D 1		0 1/1	0540404400\/081	401/050
	.04 to .5 lpm	3 in	Buna-N			12510A2A12BVBN	
	.1 to 1 lpm	3 in		Stainless Steel	Valves	2510A2A13SVVT	
	.1 to 1 lpm	3 in	Buna	Brass	Flowmeter Only		
	0.3 to 3 scfm	5 ½ in		Stainless Steel		2520A4A37SVVT	
	0.3 to 3 scfm	5 ½ in	Nitrile	Brass	Valves	2520A4A37BVBN	
	.4 to 5 lpm	3 in		Stainless Steel		2510A2A14SVVT	
1/8 in	.4 to 5 lpm	3 in	Buna	Brass	Flowmeter Only		
	2 to 25 lpm	3 in		Stainless Steel		2510A2A16SVVT	
	2 to 25 lpm	3 in	Buna	Brass	Flowmeter Only	2510A2A16BNBN	
	10 to 100 lpm	3 in		Stainless Steel	Valves	2510A2A18SVVT	
	10 to 100 scfh	5 ½ in		Stainless Steel		2520A4A34SVVT	
	10 to 100 scfh	5 ½ in	Nitrile	Brass	Valves	2520A4A34BVBN	
	11 to 100 lpm	3 in	Buna	Brass	Flowmeter Only	2510A2A18BNBN	16X858
	20 to 200 scfh	5 ½ in	Viton	Stainless Steel	Valves	2520A4A36SVVT	5P363
	20 to 200 scfh	5 ½ in	Nitrile	Brass	Valves	2520A4A36BVBN	5P347
1/4 in	0.5 to 5 scfm	5 ½ in	Viton	Stainless Steel	Valves	2530A4A67SVVT	4UN01
	0.5 to 5 scfm	5 ½ in	Nitrile	Brass	Valves	2530A4A67BVBN	4UM99
	1 to 10 scfm	5 ½ in	Viton	Stainless Steel	Valves	2530A4A65SVVT	4UM98
	1 to 10 scfm	5 ½ in	Nitrile	Brass	Valves	2530A4A65BVBN	4UM97
	3 to 25 scfm	8 ½ in	Nitrile	PVC	_	2540A5A50PS	<b>4UN06</b>
1 in	4 to 50 scfm	8 ½ in	Nitrile	PVC		2540A5A51PS	<b>4UN07</b>
	10 to 100 scfm	_	Nitrile	PVC		2540A5A52PS	4UN08

		center					
Connec.	Flow	Fitting				Mfr.	Item
Size	Range†	Size	0-Ring	Fitting	Includes	Model	No.
Water	•			•			
	0.2 to 2.5 gpm	5 ½ in	Nitrile	Brass	_	2520Z-001021	5P321
	1 to 10 gph	5 ½ in	Viton	Stainless Steel	Valves	2520A4L45SVVT	
	1 to 10 gph	3 in	Viton	Stainless Steel	Valves	2510A2L20SVVT	16X863
	1 to 10 gph	5 ½ in	Nitrile	Brass	Valves	2520A4L45BVBN	5P333
	1 to 10 aph	3 in	Buna	Brass	Flowmeter Only	2510A2L20BNBN	16X864
	2 to 25 gph	5 ½ in	Viton	Stainless Steel	Valves	2520A4L48SVVT	5P350
	2 to 25 gph	5 ½ in	Nitrile	Brass	Valves	2520A4L48BVBN	
	4 to 40 gph	3 in	Viton	Stainless Steel	Valves	2510A2L22SVVT	16X865
	4 to 40 gph	3 in	Buna	Brass	Flowmeter Only	2510A2L22BNBN	16X866
	4 to 50 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L38SVVT	
	4 to 50 ccm	5 ½ in	Nitrile	Brass	Valves	2520A4L38BVBN	
1/8 in	6 to 60 gph	5 ½ in	Viton	Stainless Steel	Valves	2520A4L46SVVT	5P352
	6 to 60 gph	5 ½ in	Nitrile	Brass	Valves	2520A4L46BVBN	
	10 to 120 ccm	5 ½ in		Stainless Steel		2520A4L56SVVT	
	20 to 240 ccm	3 in	Viton	Stainless Steel	Valves	2510A2L11SVVT	16X861
	20 to 240 ccm	3 in	Buna	Brass	Flowmeter Only		
	25 to 225 ccm	5 ½ in	Nitrile	Brass	Valves	2520A4L51BVBN	
	40 to 400 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L50SVVT	5P356
	40 to 660 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L52SVVT	5P357
	100 to 1500	5 ½ in	Viton	Stainless Steel	Valves	2520A4L53SVVT	5P358
	200 to 3000						
	ccm			Stainless Steel	Valves	2520A4L54SVVT	5P359
	0.25 to 2.5 gpm			Stainless Steel	Valves	2530A4L64SVVT	
	0.25 to 2.5 gpm	5 ½ in	Nitrile	Brass	Valves	2530A4L64BVBN	
	0.4 to 5 gpm	5 ½ in	Viton	Stainless Steel	Valves	2530A4L66SVVT	
	0.5 to 5 gpm	5 ½ in	Nitrile	Brass	Valves	2530A4L66BVBN	
1 in	0.4 to 5 gpm	_	Nitrile	PVC	_	2540A5L56PI	4UN11
	1 to 10 gpm	_	Nitrile	PVC	_	2540A5L57PI	<b>4UN09</b>
	2 to 20 gpm	_	Nitrile	PVC		2540A5L58PI	4UN10
ch)· Inm -	liters ner min	(metric)	· scfh =	standard cu ft	ner hr		

16X850

Center-

† ccm = cubic centimeters per min. (metric); gph = gal. per hr. (English); gpm = gal. per min. (English); lpm = liters per min. (metric); scfh = standard cu. ft. per hr. (English); scfm = standard cu. ft. per min. (English).

## **Air and Liquid Flow Switches**

- Single-pole, double-throw snap switch
- Sensitivity flow adjustment screw
- 120/240VAC operation

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Full load amps: 7.4 at 115V, 3.7 at 230V

Additional flow range information is available on Grainger.com, or call 1-800-GRAINGER (472-4643).

**Air Flow General-Purpose**—For applications with medium- and high-velocity requirements. Paddle fits 8" minimum duct size (trim to fit 6" duct). Sensitivity flow adjustment screw.

**Liquid Flow General-Purpose**—Start or stop electrically operated equipment such as signal lights, alarms, motors, automatic burners, and metering devices. 2RUL3 and 2RUL4 have 4 stainless steel paddles that fit 1", 2", 3", and 6" pipe; paddle can be trimmed to fit incremental pipe sizes.

**Liquid Flow High-Sensitivity**—For heavy-duty applications that need instant switching such as water treatment systems, electronic circuit cooling systems, compressors, booster pumps, and bearings.

Operating Velocity Range, Horizontal (fpm)		Max. Mater Operating of Flocity (fpm) Constr		Switch Enclosure	Max. Air Temp.		Mfr. Model	Item No.
Air Flow Ge	neral-Purpo							
910 to 16	310	2,500 fpm Seal: Stee Vane: Stee		NEMA 1	300	)	AF-1	4RC76
Min. Flow Rate (gpm)		Materials	Max. Pressure (psi)	Max. Fluid Temp. (°F)	Switch Enclosure	Connection Size (in.)	Mfr. Model	Item No.
Liquid Flow								
1.5 gpm	15 gpm	Brass, BUNA, EPDM	150 psi	250 °F	NEMA 1	3/4 FNPT	FS5-3/4	4RC67
1.5 gpm	15 gpm	Brass, BUNA, EPDM	150 psi	250 °F	NEMA 1	1 FNPT	FS5-1	1RF63
5.8 gpm	131 gpm	Brass, EPDM, SS	160 psi	250 °F	NEMA 1	1 MNPT	FS251	2RUL3
5.8 gpm	131 gpm	Brass, EPDM, SS	160 psi	250 °F	NEMA 4	1 MNPT	FS254	2RUL4
Liquid Flow								
0.12 gpm		Brass, Buna-N, SS, Viton		225 °F	NEMA 1	1 FNPT	FS6-1	4RC68
0.12 gpm		Brass, Buna-N, SS, Viton		225 °F	NEMA 4X	1 FNPT	FS6-W-1	4RC69
0.12 gpm	2.5 gpm	Brass, SS, Viton	100 psi	225 °F	NEMA 1	3/4 FNPT	FS6-3/4	1RF64
0.12 gpm	2.5 gpm	Brass, SS, Viton	100 psi	225 °F	NEMA 4X	3/4 FNPT	FS6-W-3/4	1RF65
Liquid Flow	Industrial/	Heavy-Duty						
4.8 gpm		Brass, Bronze, PTFE, SS		300 °F	NEMA 1	1 1/4 MNPT	FS7-4	4RC70
4.8 gpm	7.7 gpm	Brass, Bronze, PTFE, SS	300 psi	300 °F	NEMA 4X	1 1/4 MNPT	FS7-4W	4RC72
4.8 gpm	7.7 gpm	Brass, Bronze, PTFE, SS	300 psi	300 °F	NEMA 7,9	1 1/4 MNPT	FS7-4E	4RC74
4.8 gpm	7.7 gpm	PTFE, SS	1,000 psi	300 °F	NEMA 1	1 1/4 MNPT	FS7-4S	4RC71
4.8 gpm	7.7 gpm	PTFE, SS	1,000 psi	300 °F	NEMA 4X	1 1/4 MNPT	FS7-4SW	4RC73
	Туре	For Use	e With		In	ıcludes		Item No.
Paddle Kits								
Bronze		4RC70 to				in and 6 in P		2RUL6
Stainless S		4RC70 to				in and 6 in P		2RUL7
Stainless S	teel	2RUL3.	2RUL4	1 Each	of 1 in. 2 ir	<ol> <li>3 in. and 6</li> </ol>	in Paddles	2RUL5



## Liquid Flow Industrial/Heavy-Duty—

Designed for large pipe applications, including heating and hydronic systems, air conditioning, refrigeration, and process work. Paddles can be trimmed to suit. Fit 2" to 16" pipe with flow rates up to 998 gpm.

Paddle Kits—Designed to replace damaged paddles and return flow switches to original flow-sensing capability.

