

FLOWMETERS

Standard Valve

150 mm Gas Flowmeters

Description: Airgas® flowmeters feature an easy-to-read, universal millimeter scale permanently etched onto a heavy glass flow tube. This scale permits measurement of a wide range of gases and fluids under a variety of pressure and temperature conditions. Simply refer to the calibration curve to interpret the flow reading for your specific gas.

The brass and stainless steel units feature a 1.5 focal power magnifying front cover for a more accurate tube reading. Standard model features a 6-turn valve. For high-resolution (16-turn) non-rising model, see our high resolution model series.

These flowmeters contain dual floats – each constructed of a different material – providing a 20:1 readout range, versus the industry standard of 10:1.

Each flowmeter is equipped with two panel-mount retaining nuts to simplify industrial panel mounting. An optional tripod base for easy bench setup in laboratory applications is available. Pipe-to-tubing or pipe-to-hose adapters are also available.

150 mm Details: With its superior resolution, the 150 mm flow tubes are recommended for laboratory



Shown with optional tripod base

applications. Accuracy is $\pm 2\%$ full scale with $\pm 0.25\%$ repeatability. The elongated scale permits critical flows to be gauged more accurately and read more easily.

Conversion charts for air, argon, carbon dioxide, helium, hydrogen, nitrogen, and oxygen are supplied with each unit.

Available Options

Product Number	Description
Y29-TP1	Tripod base
Y99-26190	Brass Adapter – 1/8" MNPT x 1/4" Hose Barb
Y99-26110	Brass Adapter – 1/8" MNPT x 1/4" Compression
Y99-26490	Stainless Steel Adapter – 1/8" MNPT x 1/4" Hose Barb
Y99-26410	Stainless Steel Adapter – 1/8" MNPT x 1/4" Compression

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Ordering Information						
Product Number	Max Pressure (psig)	Inlet/Outlet	Float Material	Frame Material	Max Flow Rate *	
					ccm	Air scfh
Y21-B1500	200	1/8" FNPT	Glass/Stainless Steel	Brass	19/61	0.04/0.128
Y21-B1501	200	1/8" FNPT	Glass/Stainless Steel	Brass	47/138	0.098/0.293
Y21-B1501A	200	1/8" FNPT	Glass/Stainless Steel	Brass	92/264	0.195/0.559
Y21-B1502	200	1/8" FNPT	Glass/Stainless Steel	Brass	374/814	0.792/1.725
Y21-B1502A	200	1/8" FNPT	Glass/Stainless Steel	Brass	844/1682	1.748/3.564
Y21-B1503	200	1/8" FNPT	Glass/Stainless Steel	Brass	2313/4562	4.9/9.67
Y21-B1503A	200	1/8" FNPT	Glass/Stainless Steel	Brass	3922/7825	8.07/16.58
Y21-B1504	200	1/8" FNPT	Glass/Stainless Steel	Brass	8555/16493	18.12/34.94
Y21-B1505	200	1/8" FNPT	Glass/Stainless Steel	Brass	23105/42860	48.95/90.8
Y21-41500	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	19/61	0.04/0.128
Y21-41501	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	47/138	0.098/0.293
Y21-41501A	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	92/264	0.195/0.559
Y21-41502	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	374/814	0.792/1.725
Y21-41502A	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	844/1682	1.748/3.564
Y21-41503	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	2313/4562	4.9/9.67
Y21-41503A	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	3922/7825	8.07/16.58
Y21-41504	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	8555/16493	18.12/34.94
Y21-41505	200	1/8" FNPT	Glass/Stainless Steel	Stainless Steel	23105/42860	48.95/90.8
Y21-T1500	100	1/8" FNPT	Glass/Stainless Steel	PTFE	19/61	0.04/0.128
Y21-T1501	100	1/8" FNPT	Glass/Stainless Steel	PTFE	47/138	0.098/0.293
Y21-T1501A	100	1/8" FNPT	Glass/Stainless Steel	PTFE	92/264	0.195/0.559
Y21-T1502	100	1/8" FNPT	Glass/Stainless Steel	PTFE	374/814	0.792/1.725
Y21-T1502A	100	1/8" FNPT	Glass/Stainless Steel	PTFE	844/1682	1.748/3.564
Y21-T1503	100	1/8" FNPT	Glass/Stainless Steel	PTFE	2313/4562	4.9/9.67
Y21-T1503A	100	1/8" FNPT	Glass/Stainless Steel	PTFE	3922/7825	8.07/16.58
Y21-T1504	100	1/8" FNPT	Glass/Stainless Steel	PTFE	8555/16493	18.12/34.94
Y21-T1505	100	1/8" FNPT	Glass/Stainless Steel	PTFE	23105/42860	48.95/90.8

* Minimum flow rate is approximately 10% of maximum figure

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Ordering Information							
Product Number	Float Material	Max Flow Rate (Argon)			Max Flow Rate (Carbon Dioxide)		
		ccm	Air	scfh	ccm	Air	scfh
Y21-CA1500	Glass/Stainless Steel	15/49		0.033/0.104	23/72		0.05/0.153
Y21-CA1501	Glass/Stainless Steel	38/114		0.08/0.241	55/153		0.116/0.324
Y21-CA1501A	Glass/Stainless Steel	76/218		0.161/0.462	103/281		0.218/0.595
Y21-CA1502	Glass/Stainless Steel	305/676		0.646/1.432	355/728		0.752/1.542
Y21-CA1502A	Glass/Stainless Steel	687/1380		1.46/2.92	725/1420		1.54/3.01
Y21-CA1503	Glass/Stainless Steel	1949/3903		4.13/8.27	2048/3990		4.34/8.45
Y21-CA1503A	Glass/Stainless Steel	3151/6384		6.68/13.54	3374/6308		7.15/13.36
Y21-CA1504	Glass/Stainless Steel	7266/13977		15.39/29.61	7304/13728		15.47/29.08
Y21-CA1505	Glass/Stainless Steel	19472/36564		41.25/77.46	19220/35541		40.72/75.29
Product Number	Float Material	Max Flow Rate (Helium)			Max Flow Rate (Hydrogen)		
		ccm	Air	scfh	ccm	Air	scfh
Y21-CA1500	Glass/Stainless Steel	16/53		0.034/0.112	37/123		0.078/0.26
Y21-CA1501	Glass/Stainless Steel	41/136		0.087/0.288	95/304		0.201/0.319
Y21-CA1501A	Glass/Stainless Steel	90/283		0.191/0.6	208/627		0.441/1.328
Y21-CA1502	Glass/Stainless Steel	450/1290		0.953/2.733	1021/2496		2.163/5.288
Y21-CA1502A	Glass/Stainless Steel	1490/3397		3.16/7.20	2620/5547		5.55/11.75
Y21-CA1503	Glass/Stainless Steel	4880/9770		10.34/20.70	7817/15855		16.56/33.59
Y21-CA1503A	Glass/Stainless Steel	7803/15960		16.53/33.82	13105/27804		27.76/58.91
Y21-CA1504	Glass/Stainless Steel	19040/39280		40.33/83.22	29795/58968		63.12/124.9
Y21-CA1505	Glass/Stainless Steel	53552/106151		113/224.8	83730/157719		177.3/334.1
Product Number	Float Material	Max Flow Rate (Nitrogen)			Max Flow Rate (Oxygen)		
		ccm	Air	scfh	ccm	Air	scfh
Y21-CA1500	Glass/Stainless Steel	20/62		0.041/0.132	17/54		0.036/0.115
Y21-CA1501	Glass/Stainless Steel	48/142		0.101/0.3	42/125		0.088/0.264
Y21-CA1501A	Glass/Stainless Steel	92/271		0.195/0.574	81/233		0.172/0.494
Y21-CA1502	Glass/Stainless Steel	382/824		0.809/1.746	340/753		0.72/1.595
Y21-CA1502A	Glass/Stainless Steel	827/1662		1.75/3.52	772/1545		1.64/3.27
Y21-CA1503	Glass/Stainless Steel	2395/4685		5.07/9.93	2169/4341		4.6/9.2
Y21-CA1503A	Glass/Stainless Steel	3868/7722		8.19/16.36	3485/6992		7.38/14.81
Y21-CA1504	Glass/Stainless Steel	8695/16794		18.42/35.58	8091/15610		17.14/33.07
Y21-CA1505	Glass/Stainless Steel	23432/43607		49.64/92.38	21832/41076		46.25/87.02