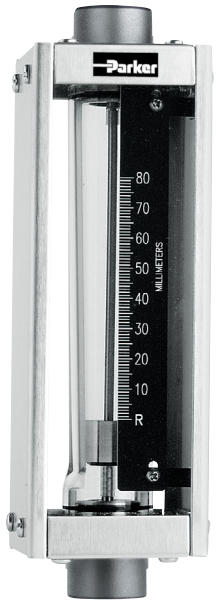
P460 Series

Glass Tube Variable Area Flowmeter

The P460 Series Flowmeters are characterized by its high reliability and wide flow range capability, making it suitable for measurement of liquids and gases in a wide variety of applications.

With multiple mounting options and connection types the P460 easily mounts into any system.



Contact Information:

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www.porterinstrument.com

Product Features:

- Borosilicate Glass tube
- 304 Stainless Steel Case
- Scales can be produced in any volumetric unit.
- Standard accuracy, ±5% of Full Scale Flow
- 80 mm detachable scales

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Specification

Materials

Metering Tube	Borosilicate Glass
Internal Components	Standard: 316L Stainless Steel Optional: Hastelloy® C-276
Inlet/Outlet Fittings	FNPT Vertical
Fitting Material	Standard: 316L Stainless Steel Optional: PVC
Elastomers	Standard: Viton® Optional: Buna N, EPR, and Kalrez®
Case and Covers	304 Stainless steel

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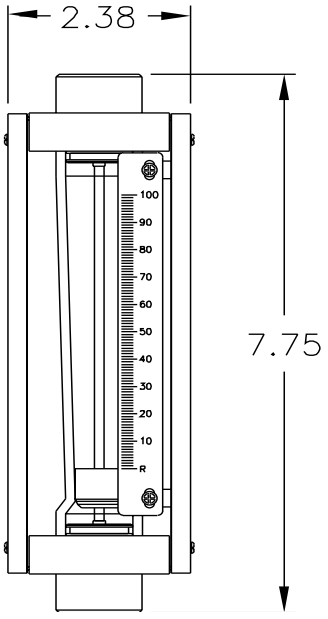
Performance

Capacities	Water 0.5 to 25 GPM Air 2 to 14 SCFM
Scale	80 mm (3") Direct reading, detachable
Accuracy	±5% of Full Scale Flow
Turndown	10:1 to 12.5:1, unless otherwise indicated
Repeatability	1%
Maximum Temperatures	200°F (93°C) Liquid 250°F (121°C) Gases
Maximum Pressures	200 psig
Ambient Temperature	33°F to 125°F (1°C to 52°C)

Options

Certified Calibrations	Conform to ISA RP 16.6
Scales	Can be produced in any volumetric unit

Dimensional Drawing



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Flow Capacities and Dimensions

Order #	Full Scale Flow GPM – Water	Order #	Full Scale Flow SCFM – Air	Float #	Float Type	Press. Drop in WC	Tube Size	Tube #	Connection Size (IncheS
41W	.5	41A	2.0	1/2-LPG-04	LP	---	4G (.50'')	1/2-24-G-3	1/2''-FNPT
42W	1.0	42A	4.0	1/2-LPG-05	LP	5	4G (.50'')	1/2-24-G-3	1/2''-FNPT
43W	2.0	43A	8.2	1/2-SLG-01	SL	9	4G (.50'')	1/2-24-G-3	1/2''-FNPT
44W	3.5	44A	14.0	5/8-SLP-01	SL	9	4P (.625'')	5/8-29-P-3	1/2''-FNPT
45W	5.6	---	---	5/8-SLP-02	SL	11	4P (.625'')	5/8-29-P-3	1/2''-FNPT
46W	7.4	---	---	5/8-SLP-03	SL	15	4P (.625'')	5/8-29-P-3	1/2''-FNPT
61W	10.0	---	---	1-GSP-01	LP	16	6P (1'')	1-35-P-3	1''-FNPT
62W	15.0	---	---	1-GSP-02	GS	24	6P (1'')	1-35-P-3	1''-FNPT
63W	25.0	---	---	1-SLG-01	SL	42	6P (1'')	1-35-P-3	1''-FNPT

Footnotes:

1. Because of the compressible nature of gas, meters used in this service may be subject to float bounce if:
   - The meter is used in very low pressure applications.
   - There is more than two pipe diameters between the meter and a control valve.
   - The gas being metered is a low Specific Gravity.
   - The meter is operating below 20% of full scale flow.
   - Back pressure is insufficent to stabilize the float.

2. Tubes with the designation "G" (e.g. 4G) have rib guided floats. Tubes designated "P" (e.g. 6P) have pole guided floats

Ordering Information

Use the following guide to determine the specific product number you require.

The following example describes a P460 flowmeter with stainless steel fittings, 316 stainless steel float, Viton O-rings, and 0.5 GPM water flow rate.

Example: P460-1-2-3-41W

P460				
Meter Series	**Fitting Material**	**Float Material**	**O-Ring Material**	**Order Number**
P460	316L SS - 1 PVC - 3*	316L SS - 2 Hastelloy® 276-C - 4	EPR -1 Buna-N - 2 Viton® - 3 Kalrez® - 4	See Specifications Table

* Not for Air Service

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