

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: Product Features:

Parker Hannifin Corporation
Porter Instrument Division
245 Township Line Road
Hatfield PA, 19440

Phone 215 723 4000
Fax 215 723 2199
industrial@parker.com

www.porterinstrument.com

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

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

Hastelloy® is a registered trademark of Haynes International, Inc. Viton® and Kalrez® are registered trademarks of DuPont Performance Elastomers L.L.C.

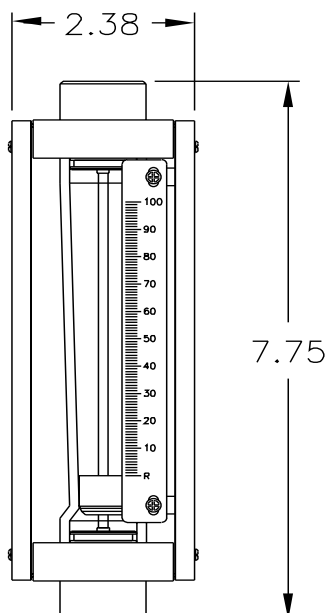
Performance

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



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:

- 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 insufficient to stabilize the float.
- 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

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

Hastelloy® is a registered trademark of Haynes International, Inc.
Viton® and Kalrez® are registered trademarks of DuPont Performance Elastomers L.L.C.

WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/offerofsale