

# P100 Series

## Low-Flow, High-Pressure Metal Tube Flow Meter

Parker P Series metal tube variable area flowmeters (armored rotameters) feature a robust design particularly suited for severe duty applications where safety is a concern.

The P100 Series, with welded stainless steel construction and a maximum pressure rating of 4000 PSIG (1500 PSIG with Valve) is ideal for low flow high pressure applications. Hastelloy® and Monel® construction is available for corrosive media applications.



With Alarm Option



## Contact Information: Product Features and Options:

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- 316L or Hastelloy® C-276 welded parts
- Max temperatures range from 275°F to 400°F (see specifications)
- Optional Inductive Slot Sensor Alarm
- Scales can be produced in any volumetric unit
- Percent of maximum flow rate scales (gases and liquids) is also available
- Certified calibrations conforming to ISA RP 16.6 available
- 304 stainless steel rear mounting bracket is available
- 4000 PSIG maximum pressure (see specifications)



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# Specifications

## Materials

<b>Metering Tube</b>	316L Stainless Steel Hastelloy® C-276 and Monel®
<b>Internal Components</b>	316L Stainless Steel Hastelloy® C-276 and Monel®
<b>Inlet/Outlet Fittings</b>	1/4" FNPT, Horizontal Control valve optional
<b>Fitting Material</b>	316L Stainless Steel Hastelloy® C-276 and Monel®
<b>Connection Type</b>	1/4" FNPT
<b>Scale</b>	Plastic
<b>Elastomers (valve meters only)</b>	<b>Standard</b> Viton® <b>Optional</b> Buna, EPD, and Kalrez®
<b>Case and Side Cover</b>	Die Cast Aluminum

## Options

<b>Alarm</b>	Single, Inductive Slot Sensor
<b>Certified Calibrations</b>	Conform to ISA RP 16.6
<b>Scales</b>	Can be produced in any volumetric unit
<b>Rear Mounting Bracket</b>	304 Stainless Steel

## Performance

<b>Capacities</b>	<b>Water</b> .16 to 25 GPH .6 to 95 LPH <b>Air</b> 1 to 120 SCFH 28.3 to 3400 SLPH
<b>Scale</b>	60 mm (2") Direct reading
<b>Accuracy</b>	±5% of Full Scale Flow
<b>Turndown</b>	10:1 to 12.5:1, unless otherwise indicated
<b>Repeatability</b>	1%
<b>Maximum Temperatures</b>	<b>O-ring Mtl.</b> <b>Max. Temp</b> EPR 300°F (149°C) Buna 275°F (135°C) Viton® 350°F (177°C) Kalrez® 400°F (204°C) No O-ring 400°F (204°C)
<b>Maximum Pressures</b>	<b>Valve models</b> 1,500 psig <b>Non-valve models</b> 4,000 psig
<b>Ambient Temperature</b>	33°F to 400°F (1°C to 204°C)

## Alarm Options



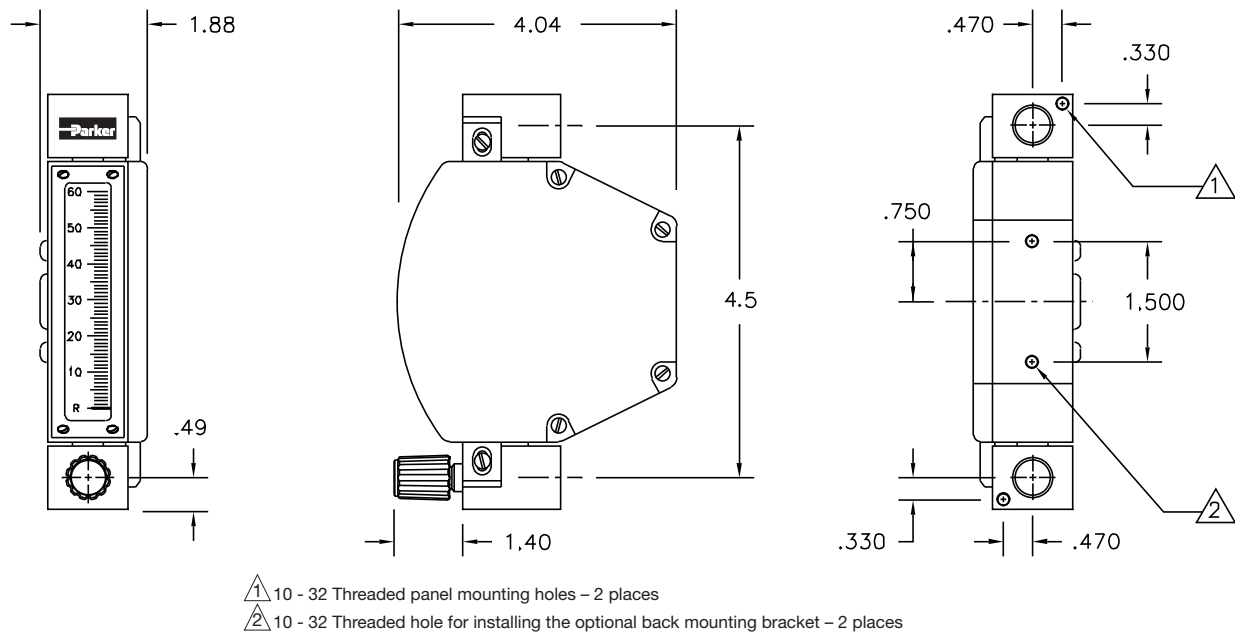
The available alarm mechanism in this flow meter is a two-wired, DC, low current inductive slot sensor. It is designed to be used with a switch isolator/barrier.

**Note:** Parker can supply switch isolator/barriers upon request. User power supply voltage must be provided.

High temperature version available allowing an ambient temperature up to 400°F (204°C).

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Monel® is a registered trademark of Special Metals Corporation.  
Viton® and Kalrez® are registered trademarks of DuPont Performance Elastomers L.L.C.

## Dimensions (Inches)



## Flow Capacities

Order Number	Full Scale Flow Water – GPH	Full Scale Flow Water – LPH
00W	0.16	0.6
02W	0.6	2.4
04W	1.2	4.5
06W	2.8	10.5
08W	5.5	20.0
10W	12.0	45.0
12W	25.0	95.0

Order Number	Full Scale Flow Air – SCFH	Full Scale Flow Air – SLPH
00A	1.0	28.3
01A	2.5	70.0
03A	5.5	155.0
05A	13.0	360.0
07A	24.0	680.0
09A	55.0	1,550.0
11A	120.0	3,400.0

# Ordering Information

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

The following example describes a P100 316L stainless steel flow meter with ethylene propylene rubber O-Ring, millimeter scale, 316L stainless steel inlet valve and with alarm.

**Example: P1001111200W**

Model Number, Example and Options						Description
<b>P100</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>00W</b>
Material of Construction	1					316L SS
	2					Hastelloy C-276®
	3					Monel®
O-Ring Material	0					No O-Ring
	1					Ethylene Propylene Rubber (EPR)
	2					Nitrile Rubber (NBR)
	3					Fluorinated Propylene Monomer (FPM/FKM)
	4					Kalrez®
Scale Type		1				Millimeter
		2				GPH-Water
		3				LPH-Water
		4				SCFH-Air@STP
		5				SLPH-Air@STP
		6				Non-Standard
Valve Option			1			Inlet 316L SS
			2			Outlet 316L SS
			3			No Valve
			4			Inlet Hastelloy C-276®
			5			Outlet Hastelloy C-276®
			6			Inlet Monel®
			7			Outlet Monel®
Optional Alarm				0		No Alarm
				A		With Alarm
Order Number						00W See Flow Capacities table on previous page

Gases equivalent to Air @ 21.1°C 1 atmos (Standard)

Liquid equivalent to water density 1.0 g/cm³, viscosity 1.0cp

## ⚠ WARNING – USER RESPONSIBILITY

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