

# P100 Series

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



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® construction is available for corrosive media applications.



### Contact Information: Product Features and Options:

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- 316L or Hastelloy® C-276 internal 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.
- 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
<b>Internal Components</b>	316L Stainless Steel Hastelloy® C-276
<b>Inlet/Outlet Fittings</b>	1/4" FNPT, Horizontal Control valve optional
<b>Fitting Material</b>	316L Stainless Steel Hastelloy® C-276
<b>Connection Type</b>	1/4" FNPT
<b>Elastomers (valve meters only)</b>	<b>Standard</b> Viton® <b>Optional</b> Buna, EPR, 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 125°F (1°C to 52°C)	

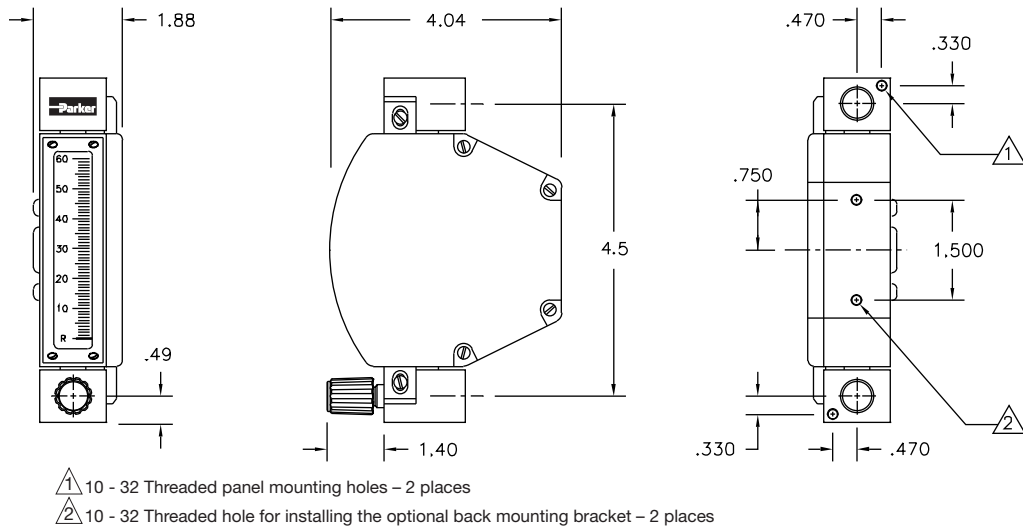
## Alarm Options



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.

## Dimensions (Inches)



## Flow Capacities

Order Number	Full Scale Flow Water - GPH	Full Scale Flow Water - LPH	Order Number	Full Scale Flow Air - SCFH	Full Scale Flow Air - SLPH
00W	0.16	0.6	00A	1.0	28.3
02W	0.6	2.4	01A	2.5	70.0
04W	1.2	4.5	03A	5.5	155.0
06W	2.8	10.5	05A	13.0	360.0
08W	5.5	20.0	07A	24.0	680.0
10W	12.0	45.0	09A	55.0	1,550.0
12W	25.0	95.0	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 flowmeter with 316L stainless steel construction, EPR O-rings, an SCFH air scale, 316L stainless valve on outlet, no alarm and a flow capacity of 5.5 SCFH air.

**Example: P1001142003A**

Meter Series	Material of Construction	O-Ring Material	Scale Type	Valve Option	Optional Alarm	Order Number
P100	1 316L Stainless Steel 2 Hastelloy® C-276* 3 Monel*	0 No O-ring** 1 Ethylene Propylene Rubber 2 Buna 3 Viton® 4 Kalrez®	1 Millimeter 2 GPH - Water 3 LPH - Water 4 SCFH - Air - STP 5 SLPH - Air - STP 6 Non-Standard	1 Inlet 316L Stainless Steel 2 Outlet 316L Stainless Steel 3 No Valve 4 Inlet Hastelloy® C-276 5 Outlet Hastelloy® C-276	0 No Alarm A With Alarm	See Flow Capacities Table Above

\* Consult factory on Hastelloy® and Monel construction for "00", "01" and "02" tube sizes.

\*\* The "No O-ring" option is for non-valve meters only.

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