

# P900 Series

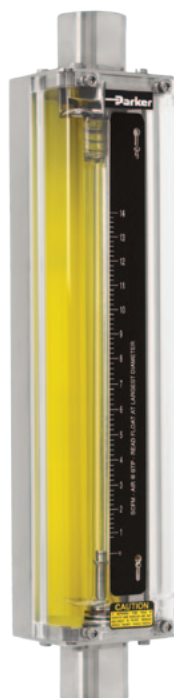
## Industrial Grade Glass Tube Flow Meter

Parker P Series glass tube flow meters deliver unsurpassed performance and value in a wide variety of gas and liquid flow applications.

P900 Series flow meters, available in 35 flow ranges from six tube sizes with full horizontal and vertical connection options, are the most versatile industrial glass tube meters available.

The powder coated 304 stainless steel case and precision molded polycarbonate shield will tolerate most corrosive applications, and the easily removable flow tube simplifies maintenance and replacement.

Designed, manufactured and tested in the US.



### Contact Information:

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### Product Features and Options:

- Available in 35 flow ranges in six tube sizes
- NPT and flanged horizontal or vertical connections available
- Powder-coated 304 stainless steel case and clear polycarbonate front shield
- Industry standard dimensions
- Easily removable in-line glass tube
- Max temperature: 200°F (93°C) for both 316L SS and PVDF fittings
- Stable flow capacities up to 85 GPM water and 288 SCFM air
- Latching reed switch alarm option
- Certified calibrations conforming to ISA RP 16.6 available
- Detachable direct reading scales can be produced in any volumetric unit



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# Specifications

## Materials

<b>Metering Tube</b>	Borosilicate Glass
<b>Internal Components</b>	<b>Standard</b> 316L Stainless Steel <b>Optional</b> Hastelloy® C-276
<b>Inlet/Outlet Fittings</b>	FNPT or Flange, Vertical or Horizontal
<b>Fitting Material</b>	<b>Standard</b> 316L Stainless Steel <b>Optional</b> PVDF (FNPT Only)
<b>Elastomers</b>	<b>Standard</b> Viton® <b>Optional</b> Buna, EPR, and Kalrez®
<b>Case</b>	Powder-Coated 304 Stainless Steel
<b>Cover</b>	Molded Polycarbonate Shield

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## Options

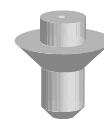
<b>Alarm</b>	Latching Reed Switch
<b>Valve</b>	External Valve – 316L Stainless Steel (Size 3 to Size 6 FNPT only)
<b>Certified Calibrations</b>	Conform to ISA RP 16.6
<b>Scales</b>	Can be produced in any volumetric unit

## Performance

<b>Capacities</b>	<b>Water</b> 0.27 to 85 GPM <b>Air</b> 1.15 to 288 SCFM
<b>Scale</b>	<b>Sizes 3 to 6</b> 250 mm (10") <b>Sizes 8 to 9</b> 200 mm (8") Direct reading, detachable (Dual scales available upon request)
<b>Accuracy</b>	±2% of Full Scale Flow
<b>Turndown</b>	10:1 unless otherwise indicated
<b>Repeatability</b>	1/2%
<b>Maximum Temperatures</b>	<b>316L SS Fittings</b> 200°F (93°C) <b>PVDF Fittings</b> 200°F (93°C)
<b>Maximum Pressures</b>	<b>316L SS Fittings</b> 300 psig, sizes 3 & 4 <b>316L SS Fittings</b> 250 psig, sizes 5 & 6 <b>316L SS Fittings</b> 150 psig, sizes 8 & 9 <b>PVDF Fittings</b> 150 psig, all sizes
<b>Ambient Temperature</b>	33°F to 125°F (1°C to 52°C)

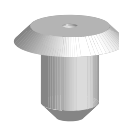
## Float Types

**GS**



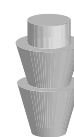
Semi Viscosity  
Compensation

**GV**



Maximum Viscosity  
Compensation

**LJ**



Minimum Viscosity  
Compensation

**BL**



No Viscosity  
Compensation

### ⚠ 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.

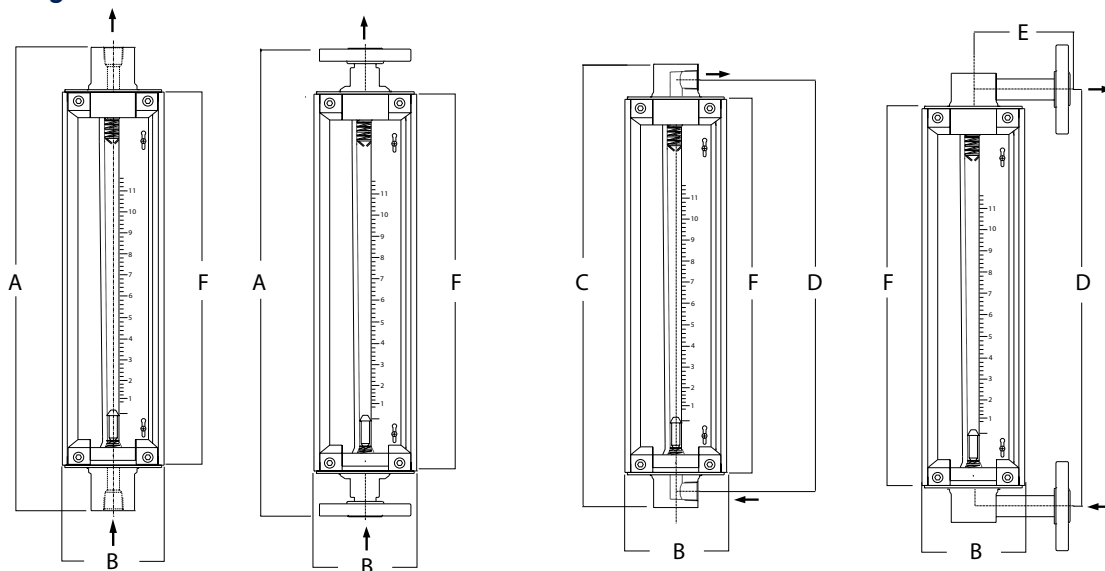
The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, 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.

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## Flow Ranges and Dimensions



Order #	Full Scale Flow GPM – Water	Order #	Full Scale Flow SCFM – Air	Float #	Float Type	Alarm Option	Press. Drop in WC	Dimensions (Inches)						Connection Size (Inches)	
								A	B	C	D	E	F	FNPT	Flange
31W	0.27	31A	1.15	3-BLG-01	BL	No	4	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
32W	0.49	32A	2.1	3-BLG-02	BL	No	4	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
33W	0.64	33A	2.64	3-HFG-01	HF	Yes	4	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
34W	0.77	34A	3.2	3-LJG-01	LJ	Yes	4	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
41W	1.1	41A	4.2	4-GVG-01	GV	Yes	6	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
42W	1.3	42A	5.5	4-GSG-01	GS	Yes	6	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
43W	1.5	43A	6.2	4-GVG-02	GV	Yes	8	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
44W	1.8	44A	7.6	4-GSG-02	GS	Yes	9	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
45W	2.2	45A	9	4-GSG-03	GS	Yes	15	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
46W	2.5	46A	10.2	4-GSG-03	GS	Yes	19	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
47W	3.4	47A	14	4-GSG-04	GS	Yes	27	19.7	4.13	18.86	17.5	3.94	16.1	1/2	1/2
51W	2.5	51A	10	5-GVG-01	GV	Yes	6	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
52W	3	52A	12	5-GSG-01	GS	Yes	6	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
53W	3.5	53A	14.4	5-GSG-02	GS	Yes	10	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
54W	4	54A	16.4	5-GVG-02	GV	Yes	15	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
55W	5	55A	20	5-LJG-01	LJ	Yes	41	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
61W	6.5	61A	26.8	6-GSG-01	GS	Yes	13	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
62W	7	62A	28.8	6-GVG-01	GV	Yes	20	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
63W	8.2	63A	34	6-GSG-02	GS	Yes	27	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
64W	10.5	64A	44	6-GVG-02	GV	Yes	30	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
65W	13	65A	54	6-GSG-03	GS	Yes	32	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
66W	16	66A	66	6-GVG-03	GV	Yes	48	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
67W	20	67A	82	6-HFG-01	HF	Yes	97	19.7	4.13	18.86	17.5	4.72	16.1	3/4	1
81W	15	81A	61	8-GVG-01	GV	Yes	8	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
82W	20	82A	82	8-GVG-02	GV	Yes	13	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
83W	25	83A	103	8-GVG-03	GV	Yes	22	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
84W	28	84A	122	8-GSG-01	GS	Yes	30	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
85W	32	85A	145	8-GSG-02	GS	Yes	24	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
86W	36	86A	155	8-HFG-01	HF	Yes	43	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
91W	41	91A	165	9-GVG-01	GV	Yes	28	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
92W	50	92A	195	9-GVG-02	GV	Yes	44	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
93W	60	93A	245	9-GSG-01	GS	Yes	36	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
94W	70	94A	285	9-HFG-01	HF	Yes	62	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2
95W	85	–	–	9-LJG-01	LJ	Yes	88	19.7	5.75	23.26	20.5	5.12	16.3	1 1/2	1 1/2

# Ordering Information

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

The following example describes a P900 flow meter with 3/4" 316L SS vertical FNPT flange, 316L SS float material, EPR O-ring and no alarm.

**Example:**  
P90012155W0

Gases equivalent to Air @ 21.1°C 1 atmos (Standard)  
Liquid equivalent to water density 1.0 g/cm<sup>3</sup>, viscosity 1.0cp

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Model Number, Example & Options						Description
P900	1	2	1	55W	0	
Fitting Material	1					Vertical FNPT - 316L SS - Order Number 31A - 47W
						Vertical FNPT - 316L SS - Order Number 51A - 67W
						Vertical FNPT - 316L SS - Order Number 81A - 86W
						Vertical FNPT - 316L SS - Order Number 91A - 95W
	2					Horizontal FNPT - 316L SS - Order Number 31A - 47W
						Horizontal FNPT - 316L SS - Order Number 51A - 67W
						Horizontal FNPT - 316L SS - Order Number 81A - 86W
						Horizontal FNPT - 316L SS - Order Number 91A - 95W
	3					Vertical 150# Flange - 316L SS - Order Number 31A - 47W
						Vertical 150# Flange - 316L SS - Order Number 51A - 67W
						Vertical 150# Flange - 316L SS - Order Number 81A - 86W
						Vertical 150# Flange - 316L SS - Order Number 91A - 95W
	4					Vertical 300# Flange - 316L SS - Order Number 31A - 47W
						Vertical 300# Flange - 316L SS - Order Number 51A - 67W
						Vertical 300# Flange - 316L SS - Order Number 81A - 86W
						Vertical 300# Flange - 316L SS - Order Number 91A - 95W
	5					Horizontal 150# Flange - 316L SS - Order Number 31A - 47W
						Horizontal 150# Flange - 316L SS - Order Number 51A - 67W
						Horizontal 150# Flange - 316L SS - Order Number 81A - 86W
						Horizontal 150# Flange - 316L SS - Order Number 91A - 95W
	6					Horizontal 300# Flange - 316L SS - Order Number 31A - 47W
						Horizontal 300# Flange - 316L SS - Order Number 51A - 67W
						Horizontal 300# Flange - 316L SS - Order Number 81A - 86W
						Horizontal 300# Flange - 316L SS - Order Number 91A - 95W
	7					Vertical FNPT - PVDF - Order Number 31A - 47W
						Vertical FNPT - PVDF - Order Number 51A - 67W
						Vertical FNPT - PVDF - Order Number 81A - 86W
						Vertical FNPT - PVDF - Order Number 91A - 95W
	8					Horizontal FNPT - PVDF - Order Number 31A - 47W
						Horizontal FNPT - PVDF - Order Number 51A - 67W
						Horizontal FNPT - PVDF - Order Number 81A - 86W
						Horizontal FNPT - PVDF - Order Number 91A - 95W
Float Material	2					316L SS
	4					Hastelloy C-276® - Order Number 31A - 47W
						Hastelloy C-276® - Order Number 51A - 67W
						Hastelloy C-276® - Order Number 81A - 86W
						Hastelloy C-276® - Order Number 91A - 95W
O-ring Material	1					Ethylene Propylene Rubber (EPR)
						Nitrile Rubber (NBR)
						Fluorinated Propylene Monomer (FPM/FKM)
	4					Kalrez® - Order Number 31A - 47W
						Kalrez® - Order Number 51A - 67W
						Kalrez® - Order Number 81A - 86W
						Kalrez® - Order Number 91A - 95W
						Kalrez® - Order Number 91A - 95W
Order Number			55W		See Flow Ranges and Dimensions table on previous pages	
Alarm Option				0	Without Alarm	
				1	With Alarm	