

P480 Series

Glass Tube Variable Area Flow Meter

The P480 Series flow meters are characterized by their high reliability and wide flow range capability, making them suitable for measurement of liquids and gases in a wide variety of applications.

With multiple mounting options and connection types the P480 easily mounts into any system.



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Product Features:

- Borosilicate glass tube
- 304 Stainless Steel case
- Scales can be produced in any volumetric unit
- Standard accuracy, $\pm 2\%$ of Full Scale flow
- 250 mm (10") detachable scales



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Specifications

Materials of Construction

Metering Tube	Borosilicate glass
Internal Components	Standard: 316L Stainless Steel Optional: Hastelloy® C-276
Inlet/Outlet Fittings	FNPT or Flange, Vertical or Horizontal
Fitting Material	Standard: 316L Stainless Steel Optional: PVC (vertical connections only)
Elastomers	Standard: Viton® Optional: Buna N, EPR, and Kalrez®
Case and Covers	304 Stainless Steel

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Options

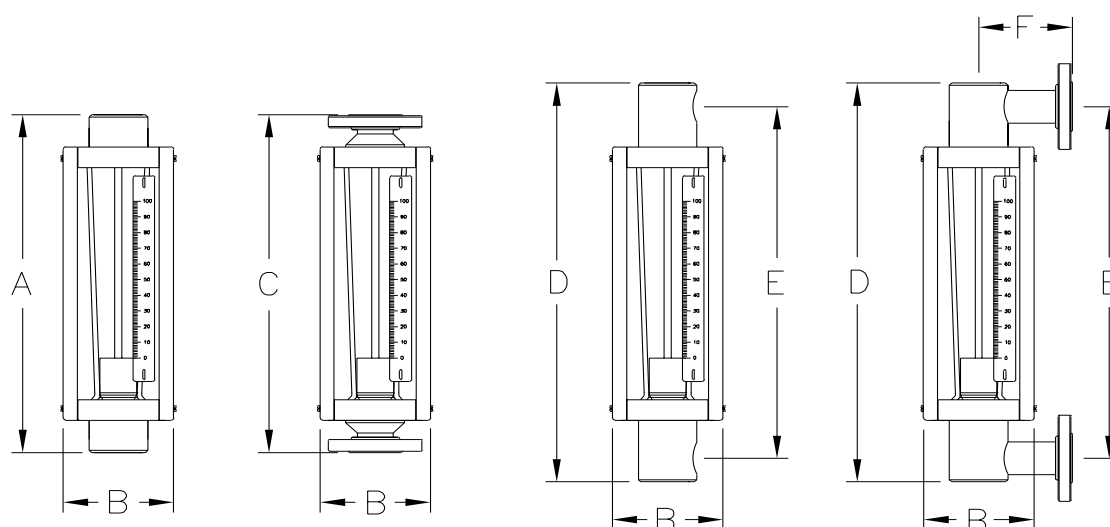
Alarm	Latching Reed Switch
Certified Calibrations	Conform to ISA RP 16.6
Scales	Can be produced in any volumetric unit

Performance

Capacities	Water: 0.22 to 132 GPM Air: 0.9 to 350 SCFM
Scale	250 mm (10") Direct reading, detachable
Turndown	10:1 to 12.5:1, unless otherwise indicated
Accuracy	±2% of Full Scale flow
Repeatability	1/2%
Maximum Temperatures	316L SS Fittings: 200°F (93°C) PVC Fittings: 110°F (43°C)
Maximum Pressures	316L SS Fittings: 200 psig, sizes 3 & 4 250 psig, sizes 5 & 6 150 psig, sizes 8 & 9 PVC Fittings: 150 psig, sizes 3, 4, 5 & 6 125 psig, sizes 8 & 9
Ambient Temperatures	33°F to 125°F (1°C to 52°C)

Dimensional Drawing

For dimensions, refer to page 3



Flow Capacities and Dimensions

Order #	Full Scale Flow GPM – Water	Alarm Options	Order #	Full Scale Flow SCFM – Air	Alarm Options	Float #	Float Type	Press. Drop in WC	Tube Size – #	Dimensions (Inches)						Connection Size (Inches)	
										A	B	C	D	E	F	FNPT	Flange
31W	.22	No	31A	.9	No	3/8-LPG-01	LP	—	3G – 3/8-20-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
32W	.315	No	32A	1.4	No	3/8-SLG-01	SL	2	3G – 3/8-20-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
33W	.64	No	33A	2.7	No	3/8-SLG-02	SL	7	3G – 3/8-20-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
41W	.77	No	41A	3.4	No	1/2-LPG-01	LP	6	4G – 1/2-32-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
42W	1.02	No	42A	4.4	No	1/2-LPG-02	LP	10	4G – 1/2-32-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
43W	1.20	Yes	43A	5.0	Yes	1/2-GVG-01	GV	10	4G – 1/2-32-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
44W	1.44	No	44A	6.1	No	1/2-GSG-01	GS	15	4G – 1/2-32-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
45W	1.92	Yes	45A	8.5	Yes	1/2-SLG-01	SL	28	4G – 1/2-32-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
46W	2.26	Yes	46A	10.2	Yes	1/2-SLG-02	SL	41	4G – 1/2-32-G-10	19.69	4.22	19.69	19.13	17.5	3.5	3/4	1/2
51W	1.1	No	51A	4.5	No	3/4-LPG-01	SL	1	5G – 3/4-28-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
52W	2.4	Yes	52A	10.0	Yes	3/4-GVG-01	SL	4	5G – 3/4-28-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
53W	3.0	Yes	53A	12.0	Yes	3/4-GSG-01	SL	5	5G – 3/4-28-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
54W	3.3	Yes	54A	13.2	Yes	3/4-GVG-02	SL	6	5G – 3/4-28-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
55W	4.0	Yes	55A	16.4	Yes	3/4-GSG-02	SL	6	5G – 3/4-28-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
56W	5.2	Yes	56A	22.0	Yes	3/4-SLG-01	SL	18	5G – 3/4-28-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
61W	6.9	Yes	—	—	No	1-LPG-02	LP	4	6G – 1-32-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
62W	9.8	Yes	—	—	No	1-SLG-01	SL	8	6G – 1-32-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
63W	12.6	Yes	—	—	No	1-SLG-02	SL	13	6G – 1-32-G-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
64W	6.7	No	64A	27.0	No	1-LPP-01	LP	4	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
65W	7.4	No	65A	30.0	No	1-GVP-01	GV	6	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
66W	8.5	No	66A	35.0	No	1-GVP-02	GV	8	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
67W	10.4	No	67A	42.5	No	1-GSP-01	GS	10	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
68W	11.6	No	68A	46.5	No	1-GVP-03	GV	15	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
69W	12.0	No	69A	50.0	No	1-GSP-02	GS	14	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
610W	15.6	No	610A	63.0	No	1-GSP-03	GS	24	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
611W	21.6	Yes	611A	100.0	Yes	1-SLP-01	SL	61	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
612W	27.5	Yes	—	—	No	1-SLP-02	SL	85	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
613W	34.5	Yes	—	—	No	1-SLP-03	SL	110	6P – 1-40-P-10	19.69	4.22	19.69	19.13	17.5	4	3/4	1
84W	17.0	No	84A	70.0	No	11/2-GVP-01	LP	2	8P – 11/2-32-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
85W	21.2	No	85A	87.0	No	11/2-GVP-02	LP	4	8P – 11/2-32-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
86W	22.2	No	—	—	No	11/2-GSP-01	LP	6	8P – 11/2-32-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
87W	24.8	No	87A	102.0	No	11/2-GVP-01	GV	10	8P – 11/2-32-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
88W	28.5	No	—	—	No	11/2-GSP-02	GV	20	8P – 11/2-32-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
89W	35.0	No	—	—	No	11/2-GSP-03	GS	24	8P – 11/2-32-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
94W	41.5	No	94A	170.0	No	2-LPG-01	LP	2	9P – 2-30-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
95W	58.0	No	95A	240.0	No	2-LPG-02	LP	6	9P – 2-30-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
96W	65.0	No	96A	270.0	No	2-LPG-03	LP	10	9P – 2-30-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
97W	85.0	No	97A	350.0	No	2-SLP-00	SL	40	9P – 2-30-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
98W	100.0	No	—	—	No	2-SLP-01	SL	50	9P – 2-30-P-10	19.69	5.90	19.69	23.26	20.5	5	1-1/2	1-1/2
99W	132.0	No	—	—	No	2-SLP-02	SL	60	9P – 2-30-P-10	19.69	5.90	19.69	23.26	20.5	5	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 P480 Series 3/4" vertical FNPT flow meter of 316L SS with 316L SS float material, EPR O-ring and no alarm.

Example: P480121056W0

Model No., Example and Options							Description
P480	1	2	1	0	56W	0	
Fitting Material	1						Vertical FNPT - 316L SS - Order No. 31A -56W
							Vertical FNPT - 316L SS - Order No. 61A - 613W
							Vertical FNPT - 316L SS - Order No. 84A - 99W
	2						Horizontal FNPT - 316L SS - Order No. 31A -56W
							Horizontal FNPT - 316L SS - Order No. 61A - 613W
							Horizontal FNPT - 316L SS - Order No. 84A - 99W
	3						Vertical 150# Flange - 316L SS - Order No. 31A -56W
							Vertical 150# Flange - 316L SS - Order No. 61A - 613W
							Vertical 150# Flange - 316L SS - Order No. 84A - 99W
	5						Horizontal 150# Flange - 316L SS - Order No. 31A -56W
							Horizontal 150# Flange - 316L SS - Order No. 61A - 613W
							Horizontal 150# Flange - 316L SS - Order No. 84A - 99W
	4						Vertical 300# Flange - 316L SS - Order No. 31A -56W
							Vertical 300# Flange - 316L SS - Order No. 61A - 613W
							Vertical 300# Flange - 316L SS - Order No. 84A - 99W
	6						Horizontal 300# Flange - 316L SS - Order No. 31A -56W
							Horizontal 300# Flange - 316L SS - Order No. 61A - 613W
							Horizontal 300# Flange - 316L SS - Order No. 84A - 99W
	7*						Vertical FNPT - PVC - Order No. 31A -56W
							Vertical FNPT - PVC - Order No. 61A - 613W
							Vertical FNPT - PVC - Order No. 84A - 99W
Float Material	2						316L SS
	4						Hastelloy C-276® - Order No. 31A - 56W
							Hastelloy C-276® - Order No. 61A - 613W
							Hastelloy C-276® - Order No. 84A - 99W
O-ring Material	1						Ethylene Propylene Rubber (EPR)
	2						Nitrile Rubber (NBR)
	3						Fluorinated Propylene Monomer (FPM/FKM)
	4						Kalrez® - Order No. 31A - 56W
							Kalrez® - Order No. 61A - 613W
							Kalrez® - Order No. 84A - 99W
Order No.				0	56W		See Flow Capacities and Dimensions table on previous page
Alarm Option					0		Without Alarm
					1		With Alarm

*Not for air service

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

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

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