

# P520 and P530 Series

## Acrylic Flowmeters



Parker P520 and P530 Series acrylic flowmeters are constructed to the same high quality standards as the entire P series line. They represent a cost effective alternative to glass tube flowmeters in less critical applications. The economical machined cast acrylic block construction is ideal for OEM use and the P530 Series includes an inlet precision metering valve for applications requiring flow control.



## Contact Information: Product Features and Options:

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- Brass, PVC or stainless steel process connections.
- Metering tube of machined cast acrylic.
- Max temperature: 130°F (54°C) for liquids, 100°F (38°C) for gases.
- Capacities: 7 GPH to 20 GPM for water, 2.6 SCFH to 60 SCFH for air
- Certified calibrations conforming to ISA RP 16.6 available.
- Scales can be produced in any volumetric unit.



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# Specifications

## Materials

<b>Metering Tube</b>	Machined Cast Acrylic
<b>Internal Components</b>	316L Stainless Steel
<b>Inlet/Outlet Fittings</b>	NPT, Horizontal Control Valve Optional
<b>Fitting Material</b>	<b>Standard</b> PVC (Brass for 2C Block Size) <b>Optional</b> 316L Stainless Steel or Brass
<b>Elastomers</b>	<b>Standard</b> EPR <b>Optional</b> Buna, Viton® and Kalrez®

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## Options

<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> 7 GPH to 20 GPM <b>Air</b> 2.6 SCFH to 60 SCFM
<b>Scale</b>	50mm, 75 mm, 100mm, 127mm, 250mm Direct reading
<b>Accuracy</b>	50mm ±6% of Full Scale Flow 75 mm ±4% of Full Scale Flow 100mm ±4% of Full Scale Flow 6C-04, 6C-06 ±7% of Full Scale Flow 127mm ±3% of Full Scale Flow 250mm ±2% of Full Scale Flow
<b>Turndown</b>	10:1 to 12.5:1, unless otherwise indicated
<b>Repeatability</b>	50mm 3% 75 mm 2% 100mm 2% 6C-04, 6C-06 4% 127mm 2% 250mm 1/2%
<b>Maximum Temperature</b>	<b>Gases</b> 100°F (38°C) <b>Liquids</b> 130°F (54°C)
<b>Maximum Pressures</b>	<b>Water</b> 125 psig <b>Air</b> 100 psig
<b>Ambient Temperature</b>	33°F to 125°F (1°C to 52°C)

## Materials of Construction

Model Number	P520	P520	P530	P530
Block Number	2C	3C, 5C, 6C, 7C	2C	3C, 5C, 6C, 7C
<b>Meter Tube</b>	Cast Acrylic	Cast Acrylic	Cast Acrylic	Cast Acrylic
<b>Fittings</b>	– Brass* 316L SS	PVC* Brass 316L SS	– Brass* 316L SS	PVC* Brass 316L SS
<b>O-Rings</b>	EPR* Buna Viton®	EPR* Buna Viton®	EPR* Buna Viton®	EPR* Buna Viton®
<b>Valve Assembly</b>	Not Available	Not Available	Brass* 316L Stainless Steel	Brass* 316L Stainless Steel

\*Standard Construction

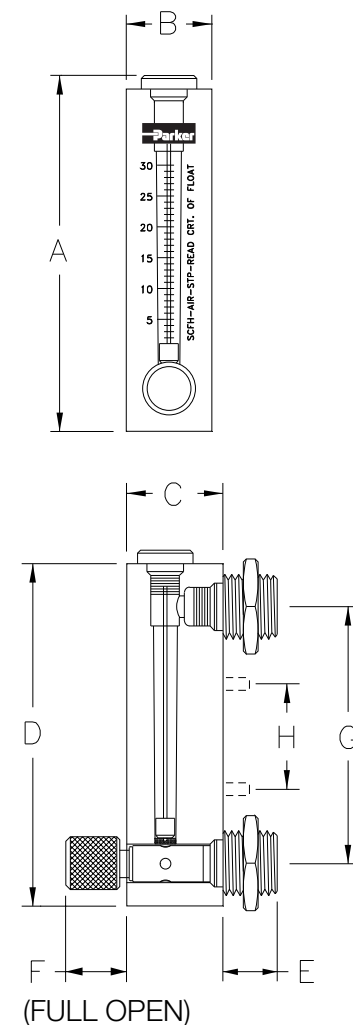
## Connections and Mounting Dimensions

Block Number	Connection Size	Centerline H	Thread J	Diameter L
<b>2C</b>	1/4" FNPT	–	–	0.625
<b>3C</b>	1/2" MNPT x 1/4" FNPT	3	.25 – 20	1
<b>5C</b>	1/2" MNPT x 1/4" FNPT	3.937	.25 – 20	1
<b>6C</b>	1" MNPT	4	.25 – 20	1.375
<b>7C</b>	1/2" FNPT	8.75	.375 – 24	1.25

Block 2C is supplied with .875" hex mounting nuts on plumbing connections.

Blocks 3C, 5C, 6C and 7C have mounting studs depicted in dimension "H" and thread "J." (Mounting nuts not supplied.)

## Order Numbers, Flow Rates and Dimensions



Order Number	Flow Water	Order Number	Flow Air	Dimensions (Inches)						
				A	B	C	D	E	F	G
<b>Block #2C, 50mm (2") Scale</b>										
–	–	2C-01	2.6 SCFH	4.125	1	1.125	4	.50	1.05	3
–	–	2C-03	5 SCFH	4.125	1	1.125	4	.50	1.05	3
–	–	2C-05	10 SCFH	4.125	1	1.125	4	.50	1.05	3
–	–	2C-07	20 SCFH	4.125	1	1.125	4	.50	1.05	3
2C-02	7 GPH	2C-09	30 SCFH	4.125	1	1.125	4	.50	1.05	3
2C-04	12 GPH	2C-11	60 SCFH	4.125	1	1.125	4	.50	1.05	3
2C-06	22 GPH	2C-13	100 SCFH	4.125	1	1.125	4	.50	1.05	3
2C-08	44 GPH	2C-15	180 SCFH	4.125	1	1.125	4	.50	1.05	3
2C-10	60 GPH	2C-17	4 SCFM	4.125	1	1.125	4	.50	1.05	3
2C-12	75 GPH	–	–	4.125	1	1.125	4	.50	1.05	3
<b>Block #3C, 75mm (3") Scale</b>										
3C-02	1 GPM	3C-01	4 SCFM	6.875	1.20	1.35	6.625	1	1.37	5
3C-04	2 GPM	3C-03	8 SCFM	6.875	1.20	1.35	6.625	1	1.37	5
3C-06	3.5 GPM	3C-05	15 SCFM	6.875	1.20	1.35	6.625	1	1.37	5
3C-08	5 GPM	3C-07	23 SCFM	6.875	1.20	1.35	6.625	1	1.37	5
<b>Block #5C, 127mm (5") Scale</b>										
5C-02	1 GPM	5C-01	4 SCFM	8.45	1.20	1.35	8.25	1	1.25	6.437
5C-04	100 GPH	5C-03	6.8 SCFM	8.45	1.20	1.35	8.25	1	1.37	6.437
5C-06	2 GPM	5C-05	8.2 SCFM	8.45	1.20	1.35	8.25	1	1.37	6.437
5C-08	5 GPM	5C-07	22 SCFM	8.45	1.20	1.35	8.25	1	1.37	6.437
5C-10	10 GPH	5C-11	42 SCFH	8.45	1.20	1.35	8.25	1	1.37	6.437
5C-12	20 GPH	5C-13	100 SCFH	8.45	1.20	1.35	8.25	1	1.37	6.437
5C-14	40 GPH	5C-15	175 SCFH	8.45	1.20	1.35	8.25	1	1.37	6.437
<b>Block #6C, 100mm (4") Scale</b>										
6C-02	10 GPM	6C-01	40 SCFM	9.125	1.78	1.812	8.875	1.25	1.875	6.50
6C-04	15 GPM	6C-03	60 SCFM	9.125	1.78	1.812	8.875	1.25	1.875	6.50
6C-06	20 GPM	–	–	9.125	1.78	1.812	8.875	1.25	1.875	6.50
<b>Block #7C, 250mm (10") Scale</b>										
7C-02	2 GPM	7C-01	8 SCFM	14.50	1.78	1.812	14.25	.75	1.75	12.25
7C-04	3.5 GPM	7C-03	14.4 SCFM	14.50	1.78	1.812	14.25	.75	1.75	12.25
7C-06	5 GPM	7C-05	20 SCFM	14.50	1.78	1.812	14.25	.75	1.75	12.25
7C-08	10 GPM	7C-07	42 SCFM	14.50	1.78	1.812	14.25	.75	1.75	12.25

## Ordering Information

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

The following example describes a P520 flowmeter with brass fittings, EPR O-rings, no valve and a 5" (127mm) scale with 2 GPM water max flow rate.

**Example:** P5201105C06

Meter Series	Fitting Material	O-Ring Material	Valve Material	Order Number
<b>P520</b> No Valve <b>P530</b> With Valve	<b>1</b> Brass <b>2</b> PVC <b>3</b> 316L Stainless Steel	<b>1</b> Ethylene Propylene Rubber <b>2</b> Buna <b>3</b> Viton®	<b>0</b> Without Valve <b>1</b> Brass <b>2</b> 316L Stainless Steel	See Order Numbers, Flow Rates and Dimensions Table

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