



aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



## Variable Area Flow Meter Product Overview



# Variable Area Flow Meter Product Overview

Type & Style	Model	Flow Rate Capacities		Temperature Limits	
		Air Equivalent @ 14.7°F & 70°F	Water Equivalent @ 70°F	Process Temperature Min – Max	Ambient Min – Max
<b>Purgemeter – Glass</b> 	<b>65mm &amp; F65mm</b>	45 SCCM - 67800 SCCM 0.045 SLPM - 67.8 SLPM 0.0953 SCFH - 143.64 SCFH	0.57 CCM - 1965 CCM	Up to 200°F *	33°F to 125°F (1°C to 52°C)
	<b>150mm &amp; F150mm</b>	34 SCCM - 65370 SCCM 0.034 SLPM - 65.37 SLPM 0.0720 SCFH - 138.51 SCFH	0.39 CCM - 2160 CCM	Up to 200°F *	33°F to 125°F (1°C to 52°C)
	<b>P210</b>	21.5 SCCM - 53850 SCCM 0.0215 SLPM - 53.85 SLPM 0.0456 SCFH - 114 SCFH	0.8 GPH - 32 GPH	Up to 248°F (120°C) *	33°F to 125°F (1°C to 52°C)
	<b>P220</b>	53.8 SCCM - 64620 SCCM 0.0538 SLPM - 64.620 SLPM 0.1140 SCFH - 137 SCFH	0.8 GPH - 32 GPH	Up to 248°F (120°C) *	33°F to 125°F (1°C to 52°C)
	<b>P230</b>	21.5 SCCM - 64620 SCCM 0.0215 SLPM - 64.620 SLPM 0.0456 SCFH - 137 SCFH	0.8 GPH - 32 GPH	Up to 248°F (120°C) *	33°F to 125°F (1°C to 52°C)
	<b>P430</b>	66 SCCM - 70000 SCCM 0.066 SLPM - 70 SLPM 0.1398 SCFH - 148 SCFH	.011 GPH - 28 GPH	Up to 250°F (121°C) *	33°F to 125°F (1°C to 52°C)
	<b>P260</b>	1077 SCCM - 53850 SCCM 1.077 SLPM - 53.850 SLPM 2.28203376 SCFH - 114.1 SCFH	0.8 GPH - 32 GPH	Up to 248°F (120°C) *	33°F to 125°F (1°C to 52°C)
<b>Purgemeter – Acrylic</b> 	<b>P270</b>	2.15 SLPM - 323 SLPM	16 GPH - 160 GPH	Up to 122°F (50°C)	
	<b>P520 &amp; P530</b>	2.6 SCFM to 60 SCFM	7 GPH to 1200 GPH	Up to 130°F (54°C) *	33°F to 125°F (1°C to 52°C)
<b>Purgemeter – Glass – High Flow</b> 	<b>P240</b>	1500 SLPH - 36000 SLPH 57 SCFH - 1368 SCFH 0.95 SCFM - 22.8 SCFM	16 GPH - 476 GPH	Up to 248°F (120°C) *	
	<b>P250</b>	N/A for gas applications	60 LPH - 1800 LPH 16 GPH - 476 GPH 0.2667 GPM - 7.9 GPM	Up to 248°F (120°C) *	
	<b>P450</b>	56.633 SLPM - 566.33 SLPM 120 SCFH - 1199.98 SCFH 2 SCFM - 20 SCFM	16 GPH - 476 GPH	Up to 200°F (93°C)	33°F to 125°F (1°C to 52°C)
<b>Glass Tube</b> 	<b>P310</b>	113 SLPM - 9344.56 SLPM 6.1 SCFM - 330 SCFM 240 SCFH - 198000 SCFH	1.5 GPM - 150 GPM	Up to 200°F (93°C) *	33°F to 125°F (1°C to 52°C)
	<b>P459</b>	25.4 SLPM - 9910.89 SLPM 0.9 SCFM - 350 SCFM 54 SCFH - 21000 SCFH	0.22 GPM - 100 GPM	Up to 250°F (121°C) *	33°F to 125°F (1°C to 52°C)
	<b>P460</b>	56.6 SLPM - 396 SLPM 2 SCFM - 14 SCFM 120 SCFH - 840 SCFH	0.5 GPM - 25 GPM	Up to 250°F (121°C) *	33°F to 125°F (1°C to 52°C)
	<b>P480</b>	25.4 SLPM - 9910.89 SLPM 0.9 SCFM - 350 SCFM 54 SCFH - 21000 SCFH	0.22 GPM - 132 GPM	Up to 200°F (93°C) *	33°F to 125°F (1°C to 52°C)
	<b>P900</b>	32.5 SLPM - 8155.25 SLPM 1.15 SCFM - 288 SCFM 69 SCFH - 17280 SCFH	0.27 GPM - 85 GPM	Up to 200°F (93°C) *	33°F to 125°F (1°C to 52°C)
<b>Metal Tube</b> 	<b>P100</b>	28.3 SLPH - 3400 SLPH 0.4717 SLPM - 56.66 SLPM 1 SCFH - 120 SCFH	0.16 GPH - 25 GPH 0.0027 GPM - 0.4167 GPM	Up to 400°F (204°C) *	33°F to 125°F (1°C to 52°C)
	<b>P710</b>	113 SLPM - 2831 SLPM 4 SCFM - 100 SCFM 240 SCFH - 6000 SCFH	33 GPH - 27000 GPH 0.55 GPM - 450 GPM	Up to 400°F (204°C) *	33°F to 125°F (1°C to 52°C)
	<b>P750</b>	62.2 SLPM - 2152 SLPM 2.2 SCFM - 76 SCFM 132 SCFH - 4560 SCFH	33 GPH - 990 GPH 0.55 GPM - 16.5 GPM	Up to 400°F (204°C)	33°F to 125°F (1°C to 52°C)
	<b>P800</b>	213 SLPM - 10769.8 SLPM 452 SCFH - 22820 SCFH 7.53 SCFM - 380 SCFM	8 GPM - 440 GPM	-4°F–572°F (-20°C–300°C) *	-58°F–212°F (-50°C–100°C) *
	<b>P810 Lined</b>	Check for gas applications	5.2 GPM - 220 GPM	-14°F–248°F (-10°C–120°C)	-13°F–212°F (-25°C–100°C)

\* Please refer to catalog sheet for more information. A Quick Response Code (QR Code/QRC) is provided on the back cover.

Pressure Limits		Wetted Parts		Connection Size	Connection Type	Alarm	Output Options
Max Inlet Pressure	Accuracy	Standard	Optional				
Up to 200 psi	±10% FSA	Aluminum *	Brass, 316 Stainless Steel	1/8" and 1/4"	NPTF, Compression, Hose I.D	N/A	N/A
Up to 200 psi	±5% FSA	Aluminum *	Brass, 316 Stainless Steel	1/8" and 1/4"	NPTF, Compression, Hose I.D	N/A	N/A
Up to 116 psi *	±5% FSA	316 Stainless Steel		1/8" and 1/4"	NPTF	Reed Switch	N/A
Up to 116 psi	±3% FSA	316 Stainless Steel		1/8" and 1/4"	NPTF	Reed Switch	N/A
Up to 116 psi	Up to ±3% FSA *	SCS14 (Equivalent to 316 SS)		1/8" and 1/4"	NPTF	N/A	N/A
Up to 200 psi *	Up to ±4% FSA *	316L Stainless Steel		1/8" and 1/4"	NPTF	Inductive or Fiber Optic Alarm *	N/A
Up to 116 psi	±5% FSA	SCS14 (Equivalent to 316 SS)		1/4"	NPTF	N/A	N/A
Up to 72.5 psi	±5% FSA	Polymethyl Methacrylate (PMMA)		1/8", 1/4", 3/8" *	NPTF	Reed Switch	N/A
Up to 125 psi *	Up to ±2% FSA *	Machined Cast Acrylic		1/4", 1/2", 1" *	NPTF, NPTM *	N/A	N/A
Up to 116 psi	±5% FSA	SCS14 (Equivalent to 316 SS)		3/8", 1/2", 3/4", 1" *	NPTF	Reed Switch	N/A
Up to 116 psi	±5% FSA	SCS14 (Equivalent to 316 SS)		3/8", 1/2"	NPTF	N/A	N/A
Up to 200 psi	Up to ±3% FSA *	316L Stainless Steel		3/8"	NPTF	N/A	N/A
Up to 300 psi	Up to ±3% FSA *	316 L Stainless Steel	PVC	1/2", 3/4", 1", 2" *	NPTF	Reed Switch	N/A
Up to 350 psi	±2% FSA	316 L Stainless Steel		1/2", 3/4", 1", 1-1/2" *	NPTF	N/A	N/A
Up to 200 psig	±5% FSA	316 L Stainless Steel	PVC	1/2", 1" *	NPTF	N/A	N/A
Up to 300 psi *	±2% FSA	316 L Stainless Steel	Hastelloy	1/2", 1", 1-1/2"	NPTF, ANSI 150#, ANSI 300# *	Reed Switch	N/A
Up to 300 psi *	±2% FSA	316 L Stainless Steel	Hastelloy	1/2", 1", 1-1/2"	NPTF, ANSI 150#, ANSI 300# *	Reed Switch	N/A
up to 4000 psi *	±5% FSA	316 L Stainless Steel	Hastelloy, Monel	1/4"	NPTF	Inductive	N/A
Up to 1200 psi *	±3% FSA	316 L Stainless Steel		1/2", 1", 1-1/2", 2", 3", 4" *	NPTF, ANSI 150#, ANSI 300#, ANSI 600#	Inductive	4-20 mA
Up to 600 psi *	±3% FSA	316 L Stainless Steel		1/2", 1"	ANSI 150#, ANSI 300#	Inductive	4-20 mA
Up to 595 psi *	±1.5% FSA	316 L Stainless Steel		1/2", 1", 1-1/2", 2", 2-1/2", 3", 4", 6" *	ANSI 150#, ANSI 300#	Reed Switch	4-20 mA, HART
Up to 475 psi *	±2% FSA	PFA / PTFE Lined		1/2", 1", 1-1/2", 2", 2-1/2", 3", 4" *	ANSI 150#, ANSI 300#	Reed Switch	N/A

# Industry and Application

## Oil & Gas

- Steam Injection into production wells
- Diluent Injection for extraction and transportation
- High pressure flow measurement from offshore exploration
- Gas and liquid flow indication
- Recycled gas flow measurement
- Flow measurement of anti-corrosion and scale inhibitors
- Flow measurement of acids, bases, chloridic and sulphuric substances
- Odorant Injection
- Methanol Injection to prevent freezing
- Utilities

## Petrochemical

- Condensate, steam and cooling flow measurement
- Process utility fluids flow measurement
- Analyzer Sample, Fast loop, and Calibration gas Flow

## Chemical

- Tank and Vessels Blanketing
- Flow measurement of additives into process
- Flow measurement of inhibitors, emulsiors, dosing, catalyzation
- Gas Sparging
- Condensate and steam flow measurement
- Process line purging
- Inertisation of vessels and tanks

## Pharmaceutical

- Dionized and demineralised water measurement
- CIP (Clean In Place) and SIP (Steam In Place) steam metering
- Gas delivery for bio-reactors
- Liquid media storage/transfer
- solvents, alcohol, and cleaning agents flow measurement

## Water and Waste Water

- Chlorination & Effluent Water Treatment Plants
- Mineral Water Treatment
- Oxygen aeration

## Laboratories and Test Facilities

- Low flow measurement of liquids and gases

## General Purpose

- Lube Oil flow Measurement
- Pump Seal flow measurement
- Process measurement and control
- Process Purging

\* Please refer to catalog sheet for more information.



### 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.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

### Offer of Sale

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at [www.parker.com/offerofsale](http://www.parker.com/offerofsale).