

# Pressure & Vacuum Flow Level & Temperature Tube & Fittings

# Flow Rate Monitoring – RFA Types

# ▶ 0 to 10 VDC Analog Output

GEMS Sensors popularized the RotorFlow's paddlewheel design by combining high visibility rotors with solid-state electronics that are packaged into compact, panel mounting housings. They provide accurate flow rate output with integral visual confirmation...all with an unprecedented price/performance ratio. RFA Types feature a 0 to 10 VDC analog output which is proportional to flow rate.

### Specifications

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Wetted Materials					
Body	Brass, 316 Stainless Steel or Polypropylene				
	(Hydrolytically Stable, Glass Reinforced)				
Rotor Pin	Ceramic				
Rotor	PPS Composite, Black <sup>1</sup>				
Lens	Polysulfone				
O-Ring	Viton® (Alloy Bodies); Buna N (Polypropylene Body)				
Low Flow Adaptor	Glass Reinforced Polypropylene				
Operating Pressure, Maximu	ım				
Brass or Stainless Steel Body 200 PSIG (13.8 bar) @ 70°F (21°C),					
	100 PSIG (6.9 bar) @ 212°F (100°C) <sup>2</sup>				
Polypropylene Body	100 PSIG (6.9 bar) @ 70°F (21°C),				
	40 PSI (2.8 bar) Max. @ 180°F (82°C)				
Operating Temperature,					
Brass or Stainless Steel B	<b>sody</b> -20°F to 212°F (-29°C to 100°C)				
Polypropylene Body	-20°F to 180°F (-29°C to 82°C)				
Electronics	150°F (65°C) Ambient				
Viscosity, Maximum	200 SSU				
Input Power	24 VDC, ±10%				
Output Signal	0-10 VDC Analog Signal @ 1mA, Max.				
Current Consumption	25 mA, Max.				
Current Source Output, Max.	10 mA				
Accuracy	See Table Below				
Electrical Termination	22 AWG PVC-Jacketed, 24" Cable. Color Coded:				
	Red = +VDC; Black = Ground; White = Signal Output				

#### Notes:

- Standard on Stainless Steel bodies.
- 2. For higher pressure/temperature ratings stainless steel face plates are available. Consult factory.

## How To Order

For standard configurations, specify Part Number based on desired body material and port size.

Body Material	Port Size NPT	Flow Ranges – GPM			
		Low Range (Accuracy)	Part Number	Standard Range (Accuracy)	Part Number
Polypropylene	.25″	0.1 to 1.0 (±7.0%)	230206	0.5 to 5.0 (±7.0%)	230205 🗲
	.50″	1.5 to 12.0 (±7.0%)	230207#	4.0 to 20.0 (±15.0%)	230201 🗲
Brass	.25″	0.1 to 1.0 (±7.0%)	230209#	0.5 to 5.0 (±7.0%)	230202
	.50″	1.5 to 12.0 (±7.0%)	230210#	4.0 to 20.0 (±15.0%)	230203
	.75″	_	_	5.0 to 30.0 (±10.0%)	2302124
	1.00″	_	_	8.0 to 60.0 (±15.0%)	230214
Stainless Steel	9/16″-18	0.1 to 1.0 (±7.0%)	230211	0.5 to 5.0 (±7.0%)	230204
	.50″	1.5 to 12.0 (±7.0%)	230216	4.0 to 20.0 (±15.0%)	230208
	.75″	_	_	5.0 to 30.0 (±10.0%)	230213
	1.00″	_	_	8.0 to 60.0 (±15.0%)	230215

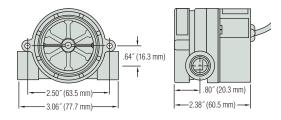


# **Typical Applications**

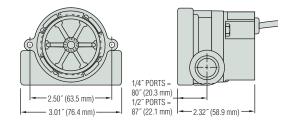
- · Water Purification/Dispensing Systems
- Chemical Metering Equipment
- · Lasers and Welders
- Water Injection Systems
- Semiconductor Processing Equipment
- Chillers and Heat Exchangers

#### **Dimensions**

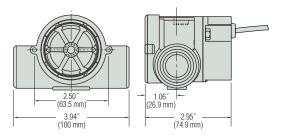
Polypropylene Bodies



Brass and Stainless Steel Bodies - .25" and .50" Ports



Brass Bodies - .75" and 1.00" NPT Ports



High Resolution
Black Rotor
PPS composite. Each of the six
rotor arms is magnetized. A PTFE
loaded bushing ensures long life.

