

RotorFlow Sensors Provide Visual Indication, Continuous Sensing and Accurate Switching

- ▶ OEM quality at an OEM price
- ▶ Bright, visual indication with choice of pulsed DC output, or adjustable 1 amp switched output
- ▶ Flow ranges from .1 GPM to 30.0 GPM
- ▶ Compact inline housings
- ▶ Available in high performance plastic, brass, or stainless steel housings

Determined to provide you with the most versatile line of flow sensors available, we've continued a non-stop refinement process for the entire RotorFlow® Series. GEMS new generation of RotorFlow® sensors, the RF-2500 Series, have been totally re-engineered with a one piece composite rotor, stronger unibody construction, ceramic shaft and better sealing. The results are greater durability with broader chemical, temperature and pressure capabilities.

Today's RotorFlow Series is state-of-the-art and offers more options, better performance and durability than ever before...all at an affordable price geared for high volume, OEM applications.

Select the RotorFlow sensor that is right for your application by choosing one of our three distinct configurations. You'll find details on each of these configurations inside.

RotorFlow Switch Types

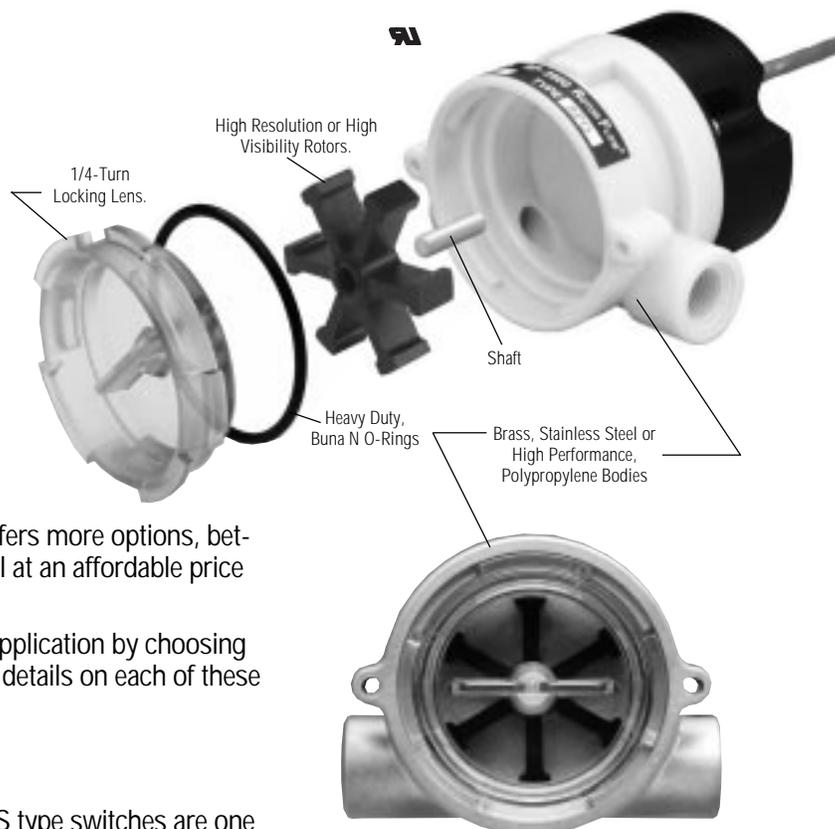
For specific flow setpoint switching, RotorFlow RFS type switches are one of the most reliable flow switches available. Setpoints are fully adjustable over the specified flow range. The dynamic operation of the rotor guards against jamming and false actuation.

RotorFlow Output Types

For flow rate monitoring or metering applications. RotorFlow RFO Type sensors provide a pulsed DC voltage output that is proportional to the rate of flow. The operating range of 4.5 to 24 VDC pulsed output is easily integrated into most digital logic families. RFA Type RotorFlow sensors provide a continuous 0-10 VDC analog output. The versatile RFA Type will also provide a pulsed output simultaneous to its analog output.

RotorFlow Indicator Types

For those who want simple visual confirmation of flow, RotorFlow RFI indicators provide the durable, low-cost answer. A bright, orange spinning rotor provides visual flow confirmation at a glance.



RotorFlow Series Sensors are U.L. Recognized — File No. E45168.

New Units Not Shown in Catalog

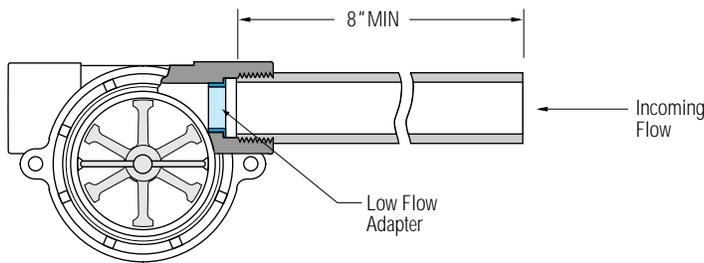
Ask about our 3/4" and 1" RotorFlow units, and high pressure faceplates for use in pressures to 500 PSI.

Call 1-800-321-6070

Easy Installation and Maintenance

A proper installation will enhance RotorFlow sensor performance. Install using standard pipe fitting tools; horizontal fluid lines are recommended. For further installation and maintenance recommendations, refer to one of the following instruction bulletins: RFO Types—Part Number 157258; RFI Types—Part Number 157259; RFS Types—Part Number 157261.

Since their function is to monitor dynamic fluid flow, naturally the rotor will react to turbulence, pulsation, entrained air, and other flow anomalies induced in the flow stream by other process hardware. For optimum performance, install RotorFlow units where nominal flow conditions exist with ports located at the top. Incoming flow may be placed to either port; a minimum of 8 inches of straight pipe on the inlet side is required. When operating in the low flow range, the supplied Low Flow Adapter must be installed in the incoming port.



RotorFlow sensors connect to piping via NPT mating thread forms.* The use of an appropriate thread sealant is necessary to assure a leak-tight connection. Permatex "No More Leaks®" or 2 wraps of Teflon® tape are the only sealants recommended for GEMS flow sensors.

150 micron filtration is recommended. However, should foreign particles enter RotorFlow sensor, accumulation is easily cleared by removing the lens from the body. The lens is removed by turning its center rib 45° counter-clockwise, and then pulling it out. To reinstall the lens, simply reverse the process. With 3/4" brass body units, a circular spring clip is used to retain the lens. In either case, pressure must be relieved from the system prior to sensor clean-out.

Low Flow Applications

A low flow adapter is supplied with all Rotorflow units. It is used to produce accurate response at low flow rates. Install the adapter, as shown above, in the port selected for incoming flow.

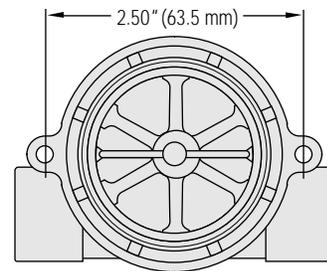
*Except the 9/16" - 18 straight thread, stainless steel versions. These units require an O-ring for sealing.

Panel Mounting

Any RotorFlow sensors may be panel mounted using holes integrated into the bodies.

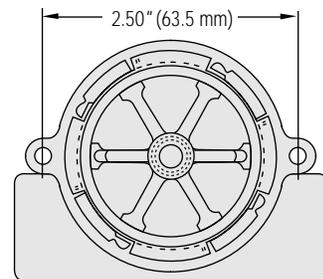
Plastic Bodies

Two (2) mounting ears are provided at the body center line to receive #8 self-tapping screws to accommodate panel mounting of the plastic RotorFlow units. See recommended panel preparation diagram. Note: ANSI T type 23 self-tapping screw are recommended. They may be replaced with standard machine screws if re-installation should be required.



Brass and Stainless Steel Bodies

Two (2) mounting holes are provided on the body centerline, as shown below. #8-32UNC-2B screws are required for mounting.



Brass Bodies – 3/4" Port Only

Six (6) mounting holes are evenly spaced on a 2.5 inch bolt circle around the center of the lens face. #8-32UNC-2B screws are required for mounting.

