

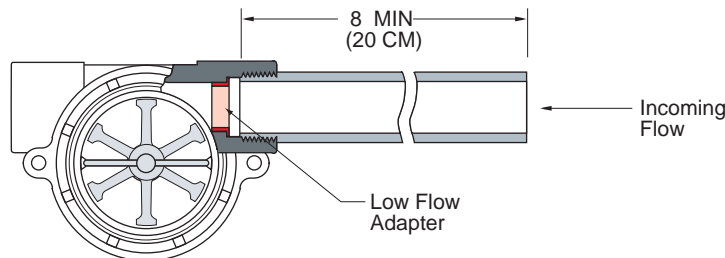




## Easy Installation and Maintenance

A proper installation will enhance RotorFlow sensor performance. Install using standard pipe fitting tools; horizontal uid 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 167261.

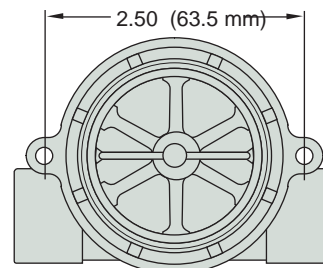
Since their function is to monitor dynamic uid ow, naturally the rotor will react to turbulence, pulsation, entrained air, and other ow anomalies induced in the ow stream by other process hardware. For optimum performance, install RotorFlow units where nominal ow conditions exist with ports located at the top. Incoming ow may be placed to either port; a minimum of 8 inches (20 cm) of straight pipe on the inlet side is required. When operating in the low ow range, the supplied Low Flow Adapter must be installed in the incoming port.



## Panel Mounting

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. Note: ANSI T type 23 self-tapping screws 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.



Except for straight-thread versions, 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" wraps of Teflon tape are the only sealants recommended for GEMS ow sensors. Straight-thread versions require an O-ring for sealing.

150 micron filtration is recommended. However, should foreign particles enter the RotorFlow sensor, accumulation is easily cleared by removing the lens from the body. The lens is removed by turning its 7/16 hex center hub 45° counter-clockwise with a standard socket wrench. To reinstall the lens, simply reverse the process. Pressure must be relieved from the system prior to sensor clean-out. O-rings should be lubricated prior to re-assembly.

## Low Flow Applications

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

## RotorFlow® Maintenance Kits

Rebuild your RotorFlow Sensors and Switches in less than 5 minutes with one of these kits.

Includes:

- s # CERAMIC ROTOR PIN
- s COIL - MAGNETIC ROTOR WITH O-RING
- s "UNA - CORR - TION
- s POLYSULFONE LENS

| Rotor ow® Type |               | O-Ring Material in Kit | Part Numbers |        |
|----------------|---------------|------------------------|--------------|--------|
| Line Size      | Body Material |                        | RFA/RFO/RFS  | RFI    |
| 1/4 & 1/2      | Plastic       | Buna-N                 | 155870       | 155872 |
|                | Brass/SS      | Vitor®                 | 167364       | 166267 |
| 3/4 & 1        | Brass/SS      | Vitor®                 | 182695       | 157187 |

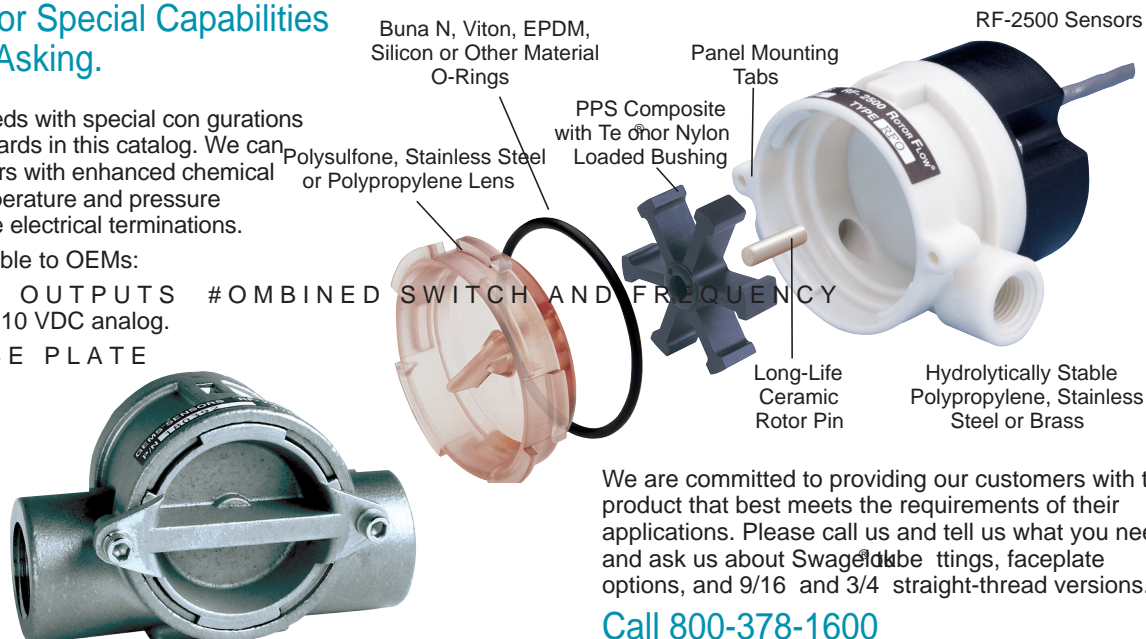
⚡ – Stock Items.

## RotorFlow® Sensor Special Capabilities are Yours for the Asking.

Gems caters to OEM needs with special configurations that go beyond the standards in this catalog. We can provide RotorFlow sensors with enhanced chemical compatibility, higher temperature and pressure capabilities, and alternate electrical terminations.

Other Capabilities Available to OEMs:

- s % ELECTRICAL OUTPUTS # COMBINED SWITCH AND FREQUENCY
- transistor switching; 0-10 VDC analog.
- s # CUSTOM FACE PLATE
- (cast stainless steel face plate pictured)



We are committed to providing our customers with the product that best meets the requirements of their applications. Please call us and tell us what you need, and ask us about Swagelok fittings, faceplate options, and 9/16 and 3/4 straight-thread versions.

**Call 800-378-1600**