



ACCUTEK® FLOWMETERS

New, all-molded plastic design provides reliable, precise measuring and metering of corrosive and/or ultrapure fluids at a lower cost



Improved Reliability

Leading the industry with innovative products, Entegris is the first to release an all-plastic flowmeter with a molded sight tube and molded housings (patent pending). The Accutek® flowmeter is designed for precise measuring and metering of corrosive and ultrapure fluids. The all-molded design enables tighter dimensional tolerances, increases accuracy and product reliability and lowers costs.

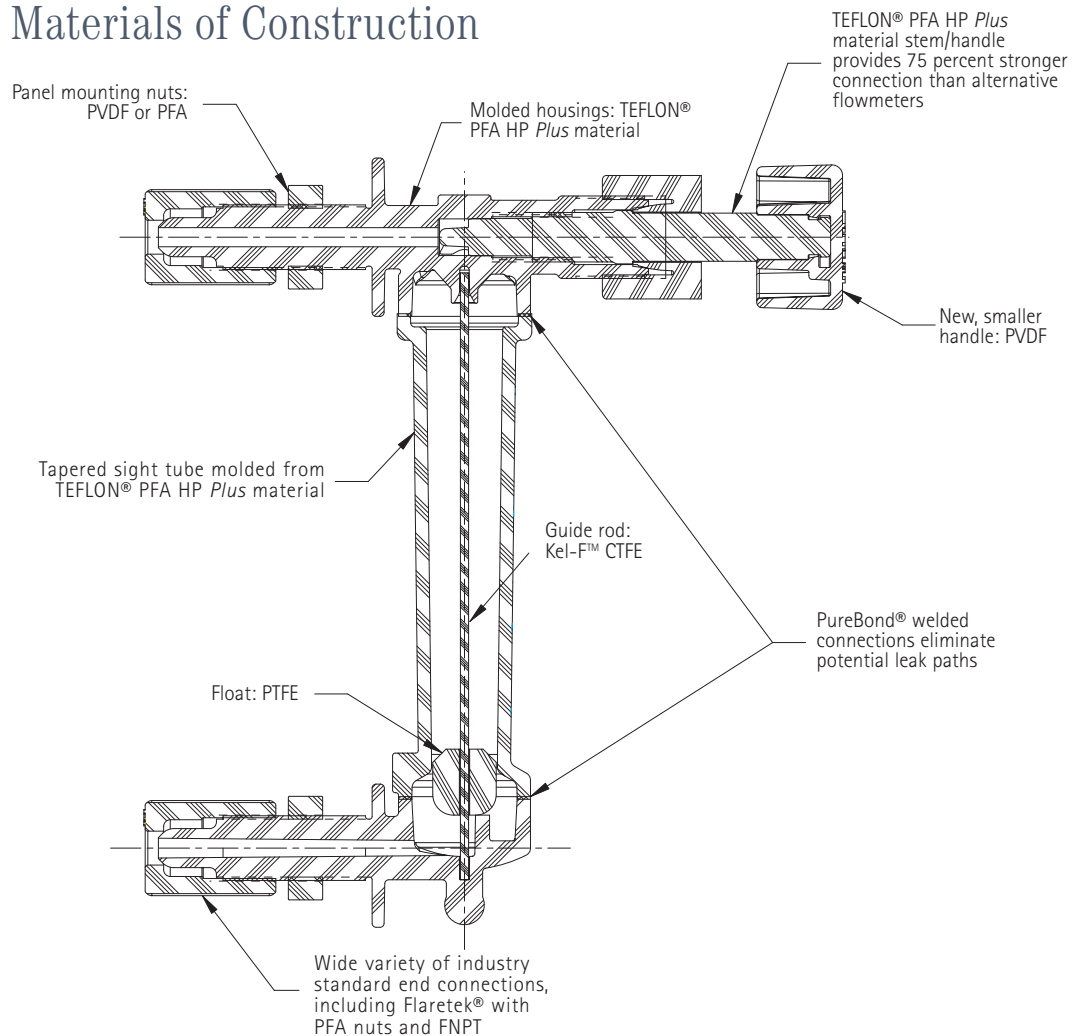
Sight Tube Clarity

The Accutek® flowmeter sight tube, upper and lower housings and metering components are injection molded from TEFLON® PFA HP *Plus* material. The revolutionary new material provides excellent clarity over existing materials, which enables easy float visibility. PFA HP *Plus* is the highest grade PFA available with unmatched purity and chemical resistance.

Leak-free Design

The sight tube is welded to the inlet and outlet housings using our patented PureBond® welding process. The robust, welded design increases seal integrity and eliminates potential leak paths common with traditional threaded site tubes. In addition, the welded design reduces particle generation, increasing purity.

Materials of Construction



Features and Benefits

Features	Benefits
Molded fluoropolymer construction	<ul style="list-style-type: none"> • High purity fluid handling • Chemical resistance • Lower cost of ownership
PureBond® welded design	<ul style="list-style-type: none"> • Ensures seal integrity between sight tube and housings • Prevents loosening of housings from sight tube and eliminates potential leak paths • Increased temperature rating to 300°F (149°C)
Sight tube is molded from PFA HP <i>Plus</i> material	<ul style="list-style-type: none"> • Better clarity and increased visibility • Cleaner fluid path • Increased repeatability due to superior dimensional control
Smooth surface finish	<ul style="list-style-type: none"> • Minimizes fluid buildup on inside wall
Molded metering valve	<ul style="list-style-type: none"> • Smooth, precise control
Common footprint	<ul style="list-style-type: none"> • Interchangeable in field with most existing designs
Smaller, more robust handle/stem assembly	<ul style="list-style-type: none"> • Enables tighter process control • Allows closer spacing when mounting multiple flowmeters • 75 percent stronger interface • Prevents over-torque condition and eliminates resultant stem breakage
Optional laser marked sight tubes	<ul style="list-style-type: none"> • Allows direct read of the flow without referring to separate flow curves
Industry standard molded end connections including Flaretek® and FNPT	<ul style="list-style-type: none"> • Easy to install • Reduced entrapment areas • Fully characterized, reliable
Optional optical float sensor	<ul style="list-style-type: none"> • Automates float position indication • Holds predetermined high or low float position with optional float stops • Universal bracket fits all sizes 25 cc/min to 6,000 cc/min

Specifications

Accuracy:	±5% full scale
Maximum pressure:	100 PSIG (689.5 kPa) at 73°F (23°C) 50 PSIG (344.8 kPa) at 300°F (149°C)
Minimum operating pressure:	Consult factory
Inlet-to-outlet pressure differential:	Consult factory

Optical Float Sensor



Optical float sensors are available with any of Entegris' industry standard end connections, including Flaretek®, PureBond® and FNPT.

Ordering Information

Accutek® flowmeters are built to your specifications. Visit Entegris' Web site at www.entegrisfluidhandling.com for part numbers, product specifications, sizes, dimensions and end connection options.

For More Information

To learn more about the new, all-plastic Accutek® flowmeters or any of our measurement products, contact your local Entegris distributor or Entegris, Inc.

To review our complete line of fluid handling products log on to Entegris' Web site at www.entegrisfluidhandling.com or contact Entegris Customer Service for your free *Fluid Handling Products* catalog on CD-ROM.

Terms and Conditions of Sale

AGREEMENT – Entegris expressly limits acceptance to the prices, conditions and terms set forth in this document. Buyer's terms and conditions of purchase shall not apply.

CANCELLATION PRIOR TO SHIPMENT – Entegris may, on a discretionary case-by-case basis, charge Buyer cancellation charges for orders which are cancelled prior to shipment. Buyer should contact their Entegris customer service representative to determine the effect of an order cancellation.

PERFORMANCE – Unless otherwise agreed to in writing, Entegris reserves the right to make design changes which Entegris believes will improve its products. Entegris may also satisfy customer purchase orders by shipping 90-100% of ordered quantities for nonstandard products when shipping lesser quantities provides Entegris operational efficiencies. Entegris shall only charge Buyer for actual quantities shipped. Entegris' performance shall be excused in the event of strikes, accidents, fires, unavailability of materials and all other causes beyond the control of Entegris.

CLAIMS AND RETURNS – Claims for shortages or inaccurate filling of orders must be made to Entegris within thirty (30) days after receipt of goods. All returns must have an accompanying return authorization number issued by Entegris. Returned goods will be accepted only with prior written approval from Entegris and must be returned in unused, resalable condition and in the original packaging and must be at the current revision level. Entegris may charge a reasonable restocking charge on any items which it accepts that are returned for credit or exchange when the error is not Entegris'.

TOOL OWNERSHIP – All tools, dies and patterns produced by or at the request of Entegris shall remain the exclusive property of Entegris. Entegris reserves the right to advertise and/or sell any of the foregoing items and any of its products unless otherwise agreed to in writing by Entegris.

WARRANTY – Entegris warrants each new product against defects in materials and workmanship for the following periods of time from shipment: Microelectronics Group products, Custom products – 90 days; Entegris™ Cleaning Systems and AutoPod™ Wafer Carriers – 1 year; Fluid Handling Group products (except as separately identified below) including FluoroPure® Chemical Container products – 1 year; Sheetlined Chemical Container products and FluoroPure® PFA Liners (blistering, cracking or leakage only) – 18 months; FluoroPure® o-rings and gasket materials – 90 days. Entegris makes no warranty, express or implied, with respect to any components, products or services provided by any third party. With respect to products specially manufactured to Buyer's specifications, Entegris warrants only that such products have been manufactured, without testing, to Buyer's specifications but makes no other warranty, express or implied. Upon Entegris' confirmation of defects, Entegris agrees, as its **exclusive remedy** to repair or, in its discretion, replace defective product without charge. Entegris is not responsible for product damage resulting from accident, misuse, or lack of reasonable care.

IMPORTANT: No other warranty, written or verbal, is authorized by Entegris. Entegris is not liable for any special, incidental or consequential damages. Implied warranties of merchantability and fitness for a particular purpose are specifically disclaimed.

Entegris™ is a trademark of Entegris, Inc.
Accutek®, Flaretek®, PureBond®, FluoroPure® and AutoPod™ are trademarks of Fluoroware, Inc.
TEFLON® is a registered trademark of E.I. du Pont de Nemours used under license.
Kel-F™ is a trademark of 3M.

ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA
Customer Service Tel. 952-556-4196 In North America 800-394-4084 / Customer Service Fax 952-556-8022
www.entegris.com / www.entegrisfluidhandling.com