

Cole-Parmer® Gilmont® Benchtop Flowmeters with PTFE Fittings

Meet a broad range of laboratory applications

- Modular components allow for flexibility across a wide range of flow rates
- Multiple end connections to suit process requirements

Unshielded Flowmeters work well in low-pressure applications. Connect the flowtube end directly to tubing having the proper inner diameter—flowtube outer diameters are listed below. Glass taper joints are an alternate connection option which slip on the PTFE stops that contain the float (contact our Application Specialists to order the glass taper joints).

Shielded Flowmeters are better suited to higher-pressure applications or for installations requiring a panel-mounted flowmeter. End bushings are molded with dual connection capability—tubing or threaded; listed below are the appropriate tubing and threaded connections provided with each meter.

Shielded Flowmeters with Valves offer flow monitoring along with precise control through an integrated 20-turn micrometer valve. Valve can be adjusted from 0.1 to 100% of maximum flow (semilogarithmic) and provides precise regulation from 0.3 to 60% of maximum flow.

Specifications

Accuracy: ±5% of reading or 2 mm of the scale length, whichever is greater

Repeatability: ±1% of reading or 1/2 scale graduation, whichever is greater

Max pressure: 60 psi (4.1 bar)

Max operating temp: 150°F (65°C)

Connections:

For shielded flowmeters:

Tube sizes 10, 11, 12, 13: 3/8" ID tubing

Tube sizes 14, 15: 1/2" ID tubing

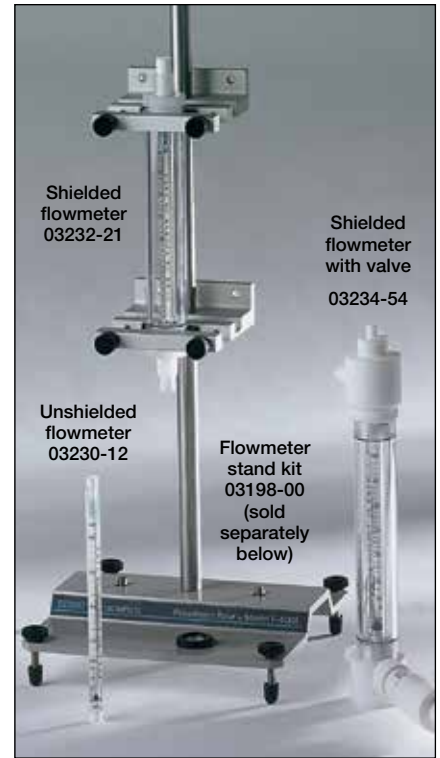
For unshielded flowmeters:

Refer to OD dimensions in table, or contact our Application Specialists for tapered glass fittings

Materials of Construction			
Part	Unshielded	Shielded	Shielded with Valve
Tube	Borosilicate glass		
O-rings	Viton®		
Inserts	PTFE	—	
Body	—	PTFE	
Couplings	—	Polypropylene (PP) with PTFE inserts†	
Shield	—	Polycarbonate	
Valve	—	Glass chamber with PCTFE plug‡	

†Order PTFE couplings (below) for a full PTFE connection.

‡Tube sizes 14 and 15 have PTFE plug.



Cole-Parmer®

ISO 9001:2008
CERTIFIED SUPPLIER



Flow ranges		Floats†† included	Tube size	Unshielded flowmeters			Shielded flowmeters				Shielded flowmeters with valves			
Air (mL/min)	Water (mL/min)			Catalog number	Max psi	Price	Catalog number	Ports‡‡ NPT	Max psi	Price	Catalog number	Ports‡ NPT	Max psi	Price
0.2 to 90 0.36 to 160	0.002 to 1.1 0.004 to 2.3	Glass 316 SS	10	GH-03230-10	15		GH-03232-20	1/4"	125		GH-03234-51	1/8"	125	
1 to 280 2 to 500	0.01 to 4.0 0.02 to 8.6	Glass 316 SS	11	GH-03230-11	15		GH-03232-21	1/4"	125		GH-03234-52	1/8"	125	
20 to 2100 36 to 3700	0.4 to 40 0.86 to 86	Glass 316 SS	12	GH-03230-12	15		GH-03232-22	1/4"	100		GH-03234-53	1/8"	100	
200 to 14,000 360 to 25,000	2 to 300 4 to 640	Glass 316 SS	13	GH-03230-13	15		GH-03232-23	1/4"	75		GH-03234-54	1/8"	75	
1000 to 6,000 1800 to 64,000	10 to 850 21 to 1820	Glass 316 SS	14	GH-03230-14	15		GH-03232-24	1/2"	60		GH-03234-56	1/4"	60	
3000 to 77,000 5300 to 137,000	30 to 1900 64 to 4100	Glass 316 SS	15	GH-03230-15	15		GH-03232-25	1/2"	50		GH-03234-57	1/4"	50	

††When using the stainless steel float, refer to the correlation chart (included) for proper readings.

‡‡Port sizes are relevant only if couplings are removed; otherwise, users should reference information in the specifications list.

Accessories

GH-03198-00 Flowmeter stand kit. Includes one base, one rod, and two mounting clamps to mount to benchtop or wall. Mount valved flowmeters directly—base accepts two large flowmeters (tube size 14 or 15) or three of the smaller flowmeters (tube size 10, 11, 12, and 13)

GH-03198-10 Replacement flowmeter base

GH-03198-20 Replacement rod, 18" L (45.7 cm)

GH-03198-30 Replacement mounting clamp

GH-03198-40 PTFE coupling adapter with Viton O-rings replaces the threaded polypropylene bushings on shielded flowmeters to provide an all-PTFE connection; 1/4" NPT(F) port

GH-31320-07 Fitting; NPT(M) to compression adapter, PFA, 1/8"

GH-31320-09 Fitting; NPT(M) to compression adapter, PFA, 1/4"

GH-31320-13 Fitting; NPT(M) to compression adapter, PFA, 1/2"

INNOCAL®
INNOVATIVE CALIBRATION SOLUTIONS

Calibrate to ensure accuracy

GH-17080-00 NIST-traceable calibration with data for air/gas flowmeter

GH-17080-12 NIST-traceable calibration with data for liquid flowmeter