

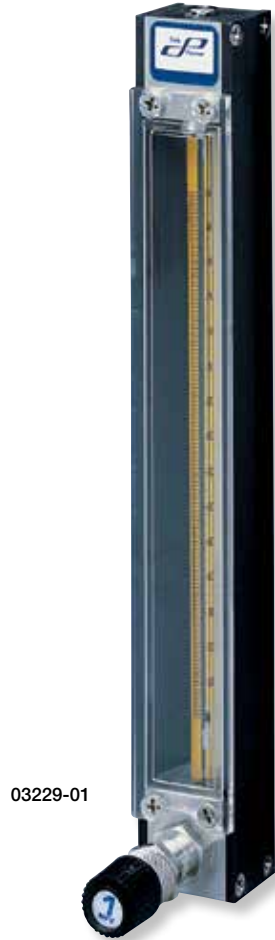
Cole-Parmer® 150-mm Flowmeters

Be more accurate with longer 150-mm scale

- Ceramic millimeter scale is fused directly to flowtube
- A vertical tangential locator line ensures hairline accuracy in reading float position
- More accurately set your desired flow point with 16-turn high-precision valve features a "nonrising stem"

Each flowmeter consists of a heavy-walled glass flowtube mounted in a frame with white acrylic back plate (1/8" thick). Aluminum flowmeters are economical and good for general use with noncorrosive gases and liquids. Brass flowmeters are economical and good for use with water. The 316 stainless steel flowmeters feature excellent chemical compatibility. Select a flowmeter with a high-precision valve for superior flow rate control—ideal for low-flow applications, for metering samples, and calibration gases for gas analyzers.

All flowmeters come with correlation data sheets for water and air at standard temperature and pressure (STP). We can also supply calibration data for oxygen, nitrogen, hydrogen, helium, CO₂, argon, other liquids and gases, and for conditions other than STP—contact your local dealer for more information.



03229-01

Specifications

- Accuracy:** ±5% full-scale for meters with rate of 0.19 and 0.94 mL/min H₂O
±2% full-scale for remaining
- Repeatability:** ±0.25% full-scale
- Max pressure:** 200 psi (13.7 bar)
- Operating temperature:** -15 to 250°F (-26 to 121°C)
- Connections:** 1/8" NPT(F)

Materials of Construction			
Part	Aluminum	Brass	SS
Flowtube	Borosilicate glass		
Fittings, valves	Aluminum	Chrome-plated brass	316 SS
O-rings	Buna N		Viton®
Float	Glass, 316 SS, or carboly		
Shield	Polycarbonate		
Frame	Aluminum/acrylic		

Maximum flow rate (mL/min) [†]								Float ^{††}	Correlated meters with valves			Correlated meters with high-resolution valves		
H ₂ O [†]	Air [†]	O ₂	N ₂	H ₂	He	CO ₂	Ar		Aluminum	Brass	316 SS	Aluminum	Brass	316 SS
									Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
0.19	18.7	17	20	37	16	23.6	15.4	G	GY-03217-00	GY-03294-00	GY-03219-01	GY-03227-00	GY-03295-00	GY-03229-01
0.49	49.1	42	48	94	46.2	56.4	43.5	G	GY-03217-04	GY-03294-04	GY-03219-05	GY-03227-04	GY-03295-04	GY-03229-05
0.85	92	81	92	208	90.1	103.1	75.6	G	GY-03217-08	GY-03294-08	GY-03219-09	GY-03227-08	GY-03295-08	GY-03229-09
0.94	60.5	54	62	123	53	72	49	SS	GY-03217-02	GY-03294-02	GY-03219-03	GY-03227-02	GY-03295-02	GY-03229-03
2.45	137	131	143	301	133	150	113	SS	GY-03217-06	GY-03294-06	GY-03219-07	GY-03227-06	GY-03295-06	GY-03229-07
4.74	264	233	271	627	283	281	218	SS	GY-03217-10	GY-03294-10	GY-03219-11	GY-03227-10	GY-03295-10	GY-03229-11
5.5	374	340	382	1021	450	355	305	G	GY-03217-12	GY-03294-12	GY-03219-13	GY-03227-12	GY-03295-12	GY-03229-13
16.5	844	772	827	2620	1490	725	687	G	GY-03217-16	GY-03294-16	GY-03219-17	GY-03227-16	GY-03295-16	GY-03229-17
20.4	814	753	824	2496	1290	728	676	SS	GY-03217-14	GY-03294-14	GY-03219-15	GY-03227-14	GY-03295-14	GY-03229-15
46	1682	1545	1662	5547	3397	1420	1380	SS	GY-03217-18	GY-03294-18	GY-03219-19	GY-03227-18	GY-03295-18	GY-03229-19
53.5	2313	2169	2395	7817	4880	2048	1949	G	GY-03217-20	GY-03294-20	GY-03219-21	GY-03227-20	GY-03295-20	GY-03229-21
84	3807	3485	3868	13,105	7803	3374	3151	G	GY-03217-24	GY-03294-24	GY-03219-25	GY-03227-24	GY-03295-24	GY-03229-25
134	4562	4341	4685	15,855	9770	3990	3903	SS	GY-03217-22	GY-03294-22	GY-03219-23	GY-03227-22	GY-03295-22	GY-03229-23
210	8678	8269	8916	29,840	19,426	7485	7366	G	GY-03217-28	GY-03294-28	GY-03219-29	GY-03227-28	GY-03295-28	GY-03229-29
217	7825	6992	7722	27,804	15,960	6308	6384	SS	GY-03217-26	GY-03294-26	GY-03219-27	GY-03227-26	GY-03295-26	GY-03229-27
506	16,737	15,710	17,021	59,996	38,576	14,051	14,131	SS	GY-03217-30	GY-03294-30	GY-03219-31	GY-03227-30	GY-03295-30	GY-03229-31
								Price						
High-flow flowmeters														
541	23,742	21,350	23,512	85,812	53,100	18,989	19,761	G	GY-03217-32	GY-03294-32	GY-03219-33	GY-03227-32	GY-03295-32	GY-03229-33
1288	45,227	39,567	43,000	159,699	103,647	34,287	45,227	SS	GY-03217-34	GY-03294-34	GY-03219-35	GY-03227-34	GY-03295-34	GY-03229-35
1881	66,346	54,902	59,580	221,872	146,500	46,311	47,890	C	GY-03217-36	GY-03294-36	GY-03219-37	GY-03227-36	GY-03295-36	GY-03229-37
								Price						

[†]Correlation data sheets for water and air are included with flowmeters.

^{††}Flow rates are at standard temperature and pressure (70°F and 14.7 psi). Minimum flow rate is approx 10% of the maximum flow rate.

^{†††}Float material key: G = glass, SS = 316 stainless steel, C = carboly

Accessories

- [GY-03226-10](#) Tripod base holds one flowmeter, clear acrylic
- [GY-03226-30](#) Tripod base holds up to three flowmeters, clear acrylic
- [GY-30904-01](#) Fitting; NPT(M) to barbed adapter, brass, 1/8" x 1/4"
- [GY-31412-34](#) Fitting; NPT(M) to compression adapter, brass, 1/8" x 1/8"
- [GY-31406-34](#) Fitting; NPT(M) to compression adapter, SS, 1/8" x 1/8"

- [GY-30621-30](#) Fitting; NPT(M) to barbed adapter, SS, 1/8" x 1/8"
- [GY-17080-00](#) NIST-traceable calibration with data for air/gas flowmeter
- [GY-17080-12](#) NIST-traceable calibration with data for liquid flowmeter