565 Series Flowmeters

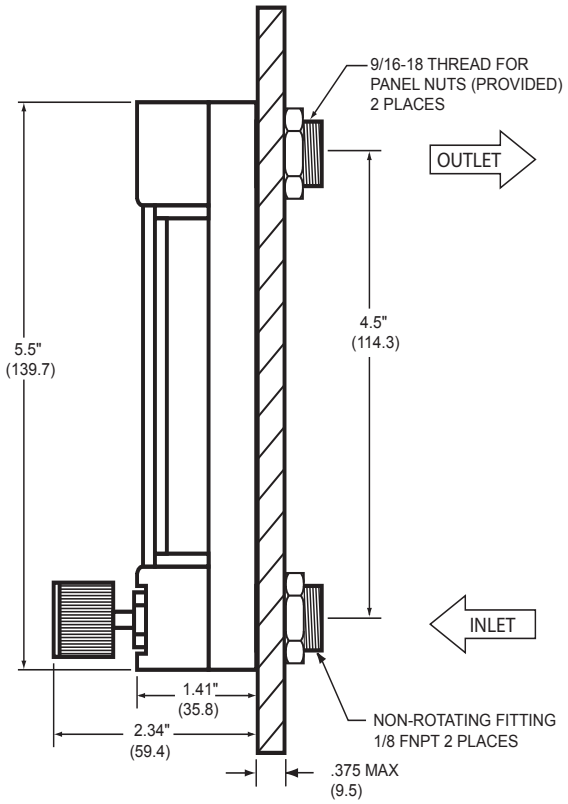
The 565 Series 65mm (2.6") variable area flowmeters offer inherent simplicity, versatility and economy in a precision flow instrument. The compact size of the 65mm (2.6") scale is preferred in industrial panel-mounting applications and for direct mounting to a pressure regulator.

Flow readings from the millimeter scale are converted to actual flow using the calibration chart provided with the flowtube. CONCOA offers a wide variety of flowtube and float combinations to provide the optimum flow range for your application.

Typical Applications

- Calibration Gas Delivery
- Gas Mixing and Blending
- Environmental Testing & Sampling
- Bioreactors and Fermentation Systems
- Gas Chromatography and Mass Spec Carrier and Support Gases





565 4311-01-000 shown

Features

Rib-Guided Tube Internals provide precise stable flow readings
Rotating Magnifier Lens enables 180° view with magnification
Premium Threaded Insert permits reliable panel mounting
Field Changeable Design allows quick interchangeability of tube assemblies
Glass Tubes ensure compatibility with most gases and fluids

Materials and Specifications

Maximum Pressure: 200 PSIG (14 BAR)
Maximum Temperature: 200°F (93°C)
Flow Tube: Heavy-walled borosilicate glass
Front Shield: Polycarbonate
End Connections: Brass or 316L stainless steel
Maximum Temperature: 200°F (93°C)
Seals: FKM, EPDM (optional); or Kalrez® (optional)
Accuracy: ± 5% full scale

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CONCOA PRECISION GAS CONTROLS

Ordering Information

565	A	B	C	D	-CON(X)
Series 565*	Tube Size*	Float Material*	Material	Valve*	End Connection*
	1: 1	**1:** Glass	**0:** No frame* (fitting and float only)	**0:** Tube and float only	**000:**1/8" FPT
	2: 2	**2:** Sapphire	**1:** Black anodized aluminum†	**1:** Standard valve	**TF2:** 1/8" tube
	3: 3	**3:** 316L stainless steel	**2:** 316L stainless steel†	**2:** High-accuracy valve†	**TF4:** 1/4" tube
	4: 4	**4:** Carbolloy	**Not available with a valve †Not available without a valve.*	*†Not available with tube size 8 or 9 (A=8 or 9).*	**HB4:**1/4" hose barb
	5: 5	**Please see selection chart below for air flow information.*			**For EPDM/EPR seals, add "E" after end connection. For Kalrez® seals, add "K" after end connection.*
	6: 6				
	7: 7				
	8: 8				
	9: 9				

**Please see selection chart below for air flow information.*

**565 Series Flowmeters not suitable for oxygen or oxidizing mixture service.*

Selection Chart

		Air Flow (14.7 PSIA @ 70° F)		
Tube Size	Float Material	ml/min	SCFH	LPM
1	1 (Glass)	51	0.11	0.05
1	2 (Sapphire)	78	0.17	0.08
1	3 (Stainless Steel)	156	0.33	0.15
1	4 (Carbolloy)	280	0.59	0.59
2	1 (Glass)	100	0.21	0.21
2	2 (Sapphire)	150	0.32	0.15
2	3 (Stainless Steel)	255	0.54	0.25
2	4 (Carbolloy)	475	1.01	0.48
3	1 (Glass)	400	0.85	0.40
3	2 (Sapphire)	545	1.16	0.55
3	3 (Stainless Steel)	845	1.79	0.84
3	4 (Carbolloy)	1275	2.70	1.27
4	1 (Glass)	900	1.91	0.90
4	2 (Sapphire)	1175	2.49	1.17
4	3 (Stainless Steel)	1780	3.77	1.78
4	4 (Carbolloy)	2600	5.51	2.60
5	1 (Glass)	2500	5.30	2.50
5	2 (Sapphire)	3360	7.12	3.36

		Air Flow (14.7 PSIA @ 70° F)		
Tube Size	Float Material	ml/min	SCFH	LPM
5	3 (Stainless Steel)	5000	10.6	5.00
5	4 (Carbolloy)	7200	15.30	7.22
6	1 (Glass)	4000	8.48	4.00
6	2 (Sapphire)	5200	11.00	5.20
6	3 (Stainless Steel)	7650	16.20	7.64
6	4 (Carbolloy)	11,000	23.30	11.00
7	1 (Glass)	6000	12.70	6.00
7	2 (Sapphire)	7240	15.30	7.22
7	3 (Stainless Steel)	11,420	24.20	11.42
7	4 (Carbolloy)	16,275	34.50	16.28
8	1 (Glass)	10,000	21.20	10.00
8	2 (Sapphire)	12,970	27.50	12.98
8	3 (Stainless Steel)	18,800	39.86	18.81
8	4 (Carbolloy)	26,665	56.53	26.68
9	1 (Glass)	24,500	51.94	24.51
9	2 (Sapphire)	31,900	67.63	31.92
9	3 (Stainless Steel)	44,425	94.18	44.45
9	4 (Carbolloy)	63,600	134.83	63.63

Related Options

Part No.	Description
565 0001	Brass regulator adapter kit
565 0002	316L stainless steel regulator adapter kit