Standard Mass Flow Meter
MODEL 3760 SERIES

The Model 3760 Series is a compact, low-cost mass flow meter developed based on the Model 3660 Series. It has been developed as a standard model of various analyzers and vacuum equipment for research and development at universities and research institutes.

Features

- Improved constant-current temperature difference detection type flow sensor for quick response
- The compact body permits installation at any location.

Standard Specifications

Model	3760	3765
Flow range (N2 equivalent, 20°C/1 atm)	10 SCCM–20 SLM (freely selectable)	30 SLM–100 SLM (freely selectable)
Sensor	Thermal mass flow sensor	
Response	2 sec. or less	3 sec. or less
Accuracy	±1.0%F.S. (25°C)	±1.5%F.S. (25°C)
Temperature coefficient	±0.1 F.S./°C (15–35°C)	±0.2 F.S./°C (15–35°C)
Repeatability	±0.5%F.S. (20°C)	
Proof pressure	980kPa (G)	
Leak rate	1 × 10^{-8} Pa·m^3/s or less (excluding permeation of He)	
Allowable ambient temperature	5–45°C	
Allowable ambient humidity	10–90% (No condensation allowed)	
Materials of parts in contact with gases	Body: SUS316	
	Sealing: FKM (option: CR or NBR)	
Electric connection	Dsub 9-pin connector as per KFC Standard (Compliant with SEMI Standard)	
Flow rate output signals	0–5 VDC (External load resistance: 250 kΩ or more)	
Required power supply	+15VDC (±5%) 100mA, –15VDC (±5%)100mA	
Joint (Main unit bore)	Standard: 1/4SWL Option: 1/8SWL 1/4VCR RC1/4, etc.	Standard: 3/8SWL Option: 1/2SWL 3/8VCR RC3/8, etc.
Weight	Approx. 800 g	Approx. 1000 g

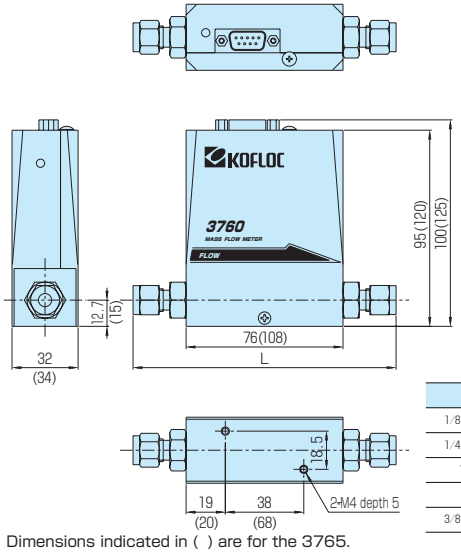
⚠Note
Specifications relating to the flow range (e.g., flow range, accuracy and response) are expressed in N_2 or air equivalent. The product will be built with the primary pressure of 300 kPa or less and the secondary side open to the atmosphere. For details on the pressure requirements, please contact us.

Harness Layout

Pin Assignment of Dsub 9-pin Connector per KFC standard

Pin No.	Signal	Pin No.	Signal
1	NC	6	NC
2	Flow output 0–5 V	7	Flow output COM
3	+15 VDC Power source	8	NC
4	Power source COM	9	NC
5	–15 VDC Power source		

Dimensions



Joint	Dimension L (mm
1/8 Swagelok®	122.8(—)
1/4 Swagelok®	127.4(159.4)
1/4 VCR®	123.8(155.8)
Rc 1/4	102(134)
3/8 Swagelok®	130.4(162.4)

Dimensions indicated in ( ) are for the 3765.

Ordering

Option { 0: No option
Option name: NR-Neoprene seal

Model { 3760: Standard
3765: Large capacity

Joint { 1/4SWL :1/4Swagelok®
1/8SWL :1/8Swagelok®
1/4VCR :1/4VCR®
1/4 :1/4RC
3/8SWL :3/8Swagelok®
Others: Option

	❶	❷	❸	❹	❺	❻
MODEL	3760	1/4SWL 1/8SWL 1/4VCR 1/4 3/8SWL Optional	Fluid	Flow rate	Calibration temperature	0 Option name
Illustrative example						
MODEL	3760	1/4SWL	N_2	100SCCM	20℃	0

* Refer to “Ordering” and “Illustrative example” when placing an order or requesting a quotation. Fill in the blanks in the “Order/Quotation Request Card” at the end of the catalog, and send the card by fax.