

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.

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

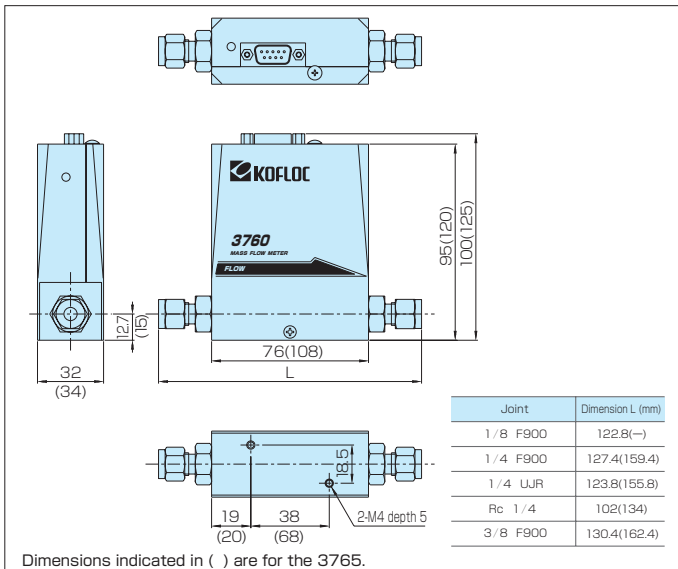


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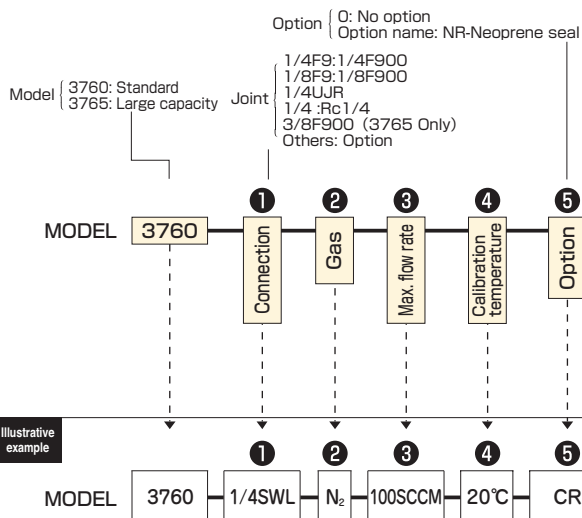
Mass flow meters and Controllers

MODEL 3760 SERIES

Dimensions



Ordering



* 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.

Standard Specifications

Model	3760	3765
Flow range (N ₂ equivalent, v 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)	
He Leak rate (*1)	1 × 10 ⁻⁸ Pa·m ³ /s or less	
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)	1/4SWL type (standard), 1/4VCR type, RC1/4, 1/8SWL type, etc.	3/8SWL type (standard), 3/8VCR type, RC3/8, 1/2SWL type, etc.
Weight	Approx. 800 g	Approx. 1000 g

(*1) Permeation is not included. The leakage by prolonged permeation shall not exceed 1x10⁻⁶Pa/m³/sec

△Note

Specifications relating to the flow range (e.g., flow range, accuracy and response) are expressed in N₂ 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

D-sub 9pin Kofloc standard
(See Fig.6 in page.12)