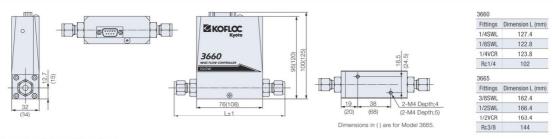
Standard Mass Flow Controller



Dimensions

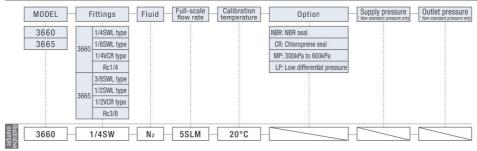


Standard Specifications

MODEL	3660	3665
Sensor type	Thermal sensor	
Valve type	Proportional solenoid valve (normally closed)	
Applicable gas	N_2 , Air, H_2 , He, Ar, O_2 , CO_2 , etc.	
Full-scale flow rate (N2 equivalent)	10SCCM to 20SLM	30 to 100SLM
Control range	2 to 100%F.S.	5 to 100%F.S.
Response	Within 2sec. (within ±2% F.S.)	Within 3sec. (within ±2% F.S.)
Accuracy	±1%F.S. (25°C)	±1.5%F.S. (25°C)
Temperature coefficient	±0.1%F.S./°C (15 to 35°C)	±0.2%F.S./°C (15 to 35°C)
Repeatability	±0.5%F.S	
Operating differential pressure	F.S. ≤ 5SLM 50 to 300kPa, F.S. > 5SLM 100 to 300kPa	F.S. ≤ 50SLM 150 to 300kPa, F.S. > 50SLM 200 to 300kPa
Max. inlet pressure	500kPa(G)	
Proof pressure	1MPa(G)	
He Leak rate	≤ 1 × 10·8Pa·m³/s	
Allowable ambient temperature	5 to 45°C	
Allowable storage temperature	-10 to 60°C	
Allowable ambient humidity	10%RH to 90%RH (no dew condensation)	
Materials of parts in contact with gases	SUS316L, SUS316, Magnetic stainless steel, FKM (option: NBR or CR)	
Electrical connection	D-sub 9 pins, KFC standard (compliant with the SEMI standard)	
Flow rate setting signal	0 to 5VDC (Input impedance: 1MΩ or more)	
Flow rate output signal	0 to 5VDC (Load resistance: 250kΩ or more)	
Power supply	+15VDC (±5%) 100mA, -15VDC (±5%) 250mA	
Fittings	Standard: 1/4SWL type, Option: 1/8SWL type, 1/4VCR type, Rc1/4	Standard: 3/8SWL type, Option: 1/2SWL type, 1/2VCR type, Rc3/8
Weight	Approx. 1,000g	Approx. 1,500g

^{*} Use with a dry and clean gas containing no corrosive components, dust or mist.
* Accuracy assurance with calibration gas

Ordering



- * For MP option (100SCCM or more in N₂ equivalent) and LP option (20SLM or less in N₂ equivalent), specify specific pressure conditions.
- * MP option is limited to the use under the specified pressure conditions only. * 'SWL type' and 'VCR type' are shortened to SW and VCR in Ordering code.

Wiring connection

D-sub 9 pins, KFC standard pin layout (see Fig. 6 on Page 15)

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 $^{^{\}star}$ He leak rate does not include permeation. Leakage (reference value) by long-time permeation is 1 x 10 $^{\circ}$ Pa-m³/sec. or less.