

High temperature SEC / SEF 8000 series specification

Model	SEC-(mass flow controller)	8340S	8440S	8450S	8455S	8460S
	SEF-(mass flow meter)	8340S	8440S	8450S	8455S	8460S
Materials used in gas contact area	SUS316L					
Valve type	Open at power-off: O					
Standard flow rate range (N2 equivalent F.S.)	5/10/20/50/	3/5/10 SLM	10/20 SLM	20/30/		
	100200/500 SCCM			50 SLM		
	1/2 SLM					
Flow rate control range	2 to 100% F.S.					
Response speed	Less than 2 sec (T98)					
Accuracy	± 1% F.S.					
Linearity	± 0.5% F.S.					
Repeatability	± 0.2% F.S.					
Operating differential pressure*1	50 to 300 kPa (d)	100 to 300 kPa (d)	20/30 SLM			
			100 to 300 kPa (d)			
			50 SLM			
			150 to 300 kPa (d)			
Maximum operating pressure	300 kPa (G)					
Pressure Resistance	1 MPa (G)					
Leak Integrity	5×10^{-12} Pa·m ³ /s (He)					
Operating temperature	L type: 80 to 100°C; M type: 100 to 120°C					
Flow rate setting signal	0.1 to 5VDC (Input impedance : more than 1MΩ)					
Flow rate output signal	0 to 5VDC (Minimum load resistance 2kΩ)					
Drive power source	+15 VDC ± 5%, 60 mA; -15 VDC ± 5%, 60 mA, 1.8 VA					
	SEC-8340S: For heater, AC 100 V, 56 VA					
Standard Fitting	1/4 VCR type			3/8 VCR type		

*1 The operating pressure may vary depending on the conditions of use. Please contact HORIBA STEC about this.

The SEC-8340 type features a heater within the main unit.

* SCCM and SLM are symbols indicating gas flow rate (mL/min, L/min at 0°C, 101.3 kPa).

* Viton® is registered trademark of E. I. DuPont de Nemours.

Model	SEC-(mass flow controller)	8440LS	8450LS	8455LS	8460LS
	SEF-(mass flow meter)	8440LS	8450LS	8455LS	8460LS
Materials used in gas contact area	SUS316L				
Valve type	Open at power-off: O				
Standard flow rate range (N2 equivalent F.S.)	5/10/20/30	10/20 SLM	30/50 SLM	50/100 SLM	
	50/100/200			50/100 SLM	
	300/500 SCCM				
Flow rate control range	2 to 100% F.S.				
Response speed	Less than 1 sec (T98)				
Accuracy	± 1% F.S.				
Linearity	± 0.5% F.S.				
Repeatability	± 0.2% F.S.				
Operating differential pressure*1	50 to 300 kPa (d)	100 to 300 kPa (d)	30 SLM		
			100 to 300 kPa (d)		
			50 SLM		
			150 to 300 kPa (d)		
Maximum operating pressure	300 kPa (G)				
Pressure Resistance	1 MPa (G)				
Leak Integrity	5×10^{-12} Pa·m ³ /s (He)				
Operating temperature	L type: 15 to 35°C; M type: 35 to 60°C; H type: 60 to 80°C				
Flow rate setting signal	0.1 to 5VDC (Input impedance : more than 1MΩ)				
Flow rate output signal	0 to 5VDC (Minimum load resistance 2kΩ)				
Drive power source	+15 VDC ± 5%, 60 mA; -15 VDC ± 5%, 60 mA, 1.8 VA				
	SEC-8340S: For heater, AC 100 V, 56 VA				
Standard Fitting	1/4 VCR type			3/8 VCR type	