

## SEC-E500 Series

MODEL	SEC(F)-E531		SEC(F)-E541	
Correspondence gas *12)	N2,Air,H2,Ar			
Full scale *1)	50SLM	100SLM	150SLM	200SLM
Valve Type	Normally Closed under no electricity: C			
Flow rate at fully closed control valve	Less than 2%F.S.			
Flow rate control range	2~100%F.S.			
Flow rate measuring range(SEF)	0~100%F.S.			
Accuracy *2) *3)	±1%S.P. (Flow rate >35%F.S.) ±0.35%F.S. (Flow rate ≤35%F.S.)			
Operating temperature	5~50°C (recommended temperature range:15~35°C)			
Response *2) *4)	1.5sec or less (All flow rate control range)			
Linearity *2)	±0.5% F.S.			
Repeatability *2)	±0.5% F.S.			
Operating pressure [ ( ):Ar ] *5) *6) *7)*11)	100~500 (150~500) kPa(D)	150~500 (200~500) kPa(D)	200~500 (250~500) kPa(D)	250~500 (300~500) kPa(D)
Operating pressure (SEF) *5) *6) *8)	~500kPa(D)			
The maximum operating pressure *5) *6)	500kPa(G)			
Pressure resistance *5) *6)	1MPa(G)			
External leak rate	1×10 <sup>-9</sup> Pa·m <sup>3</sup> /sec (He) (SEMI E16-0611)			
Flow rate set signal	0.1~5VDC (2%~100%F.S.)			
Flow rate output signal *9)	0~5VDC (0%~100%F.S.)			
Power supply	+15V±5%:150mA, -15V±5%:150mA			
Wetted materials *10)	316 Stainless Steel, 304 Stainless Steel, Fluoro rubber, PTFE, Magnetic Stainless Steel, Nylon66 (DLC coating)			
Standard fittings	3/8inch Swagelok® or equivalent			
Mounting orientation	Free			

- Notes: \*1) SLM denote gas flow rate in l/min, respectively.  
\*2) Accuracy, linearity, repeatability and Response are guaranteed for calibration Gas in our measurement condition.  
\*3) Temperature range in which "accuracy" is guaranteed is in accordance with SEMI: E56-0309.  
\*4) Response time is the time required to increase flow up to 100±2% of full scale. The responsive guarantee temperature is 23±2°C.  
\*5) (D) : Differential Pressure. (G) : Gauge Pressure  
\*6) All the pressure in a table is pressure in the N2 gas.  
\*7) Operating pressure varies depending on other operating parameters.  
\*8) The lower limit of operating pressure (SEF) varies depends on specifications.  
\*9) The maximum flow rate output signal is 6VDC.  
\*10) Magnetic stainless steel and Nylon6,6 and DLC coating are not used for SEF.  
\*11) Operating pressure of Ar is different from N2.  
\*12) Please contact the kind of the correspondence gas.