

Flow Controller

FLC-US40

Integrated flow meter and control valve for installation in small spaces.

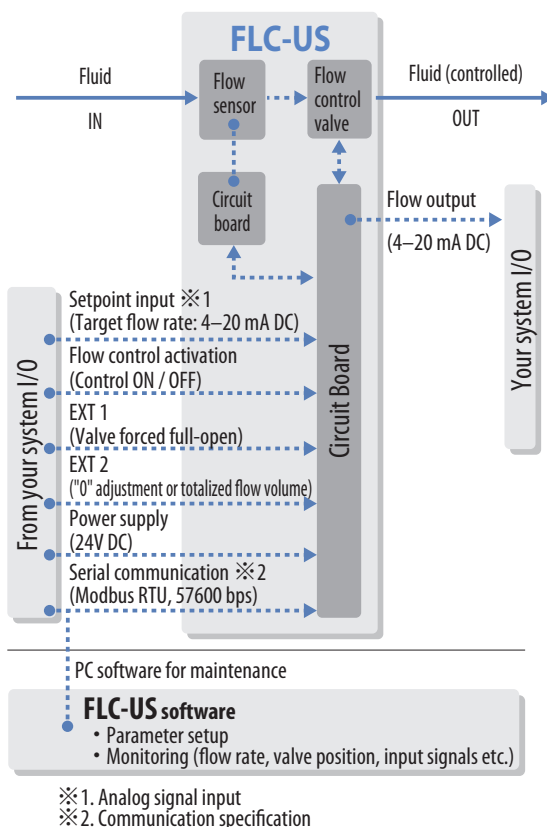
- High performance stepper motor incorporated
- Fully closed to fully open (0.3 s response time)
- Multi communication (with Modbus RTU, up to 31 connections)
- Control range (1:20)
- Overshooting through high-speed control.
- Stable control quantitative output function / easy operation status confirmation (8-color LED display)



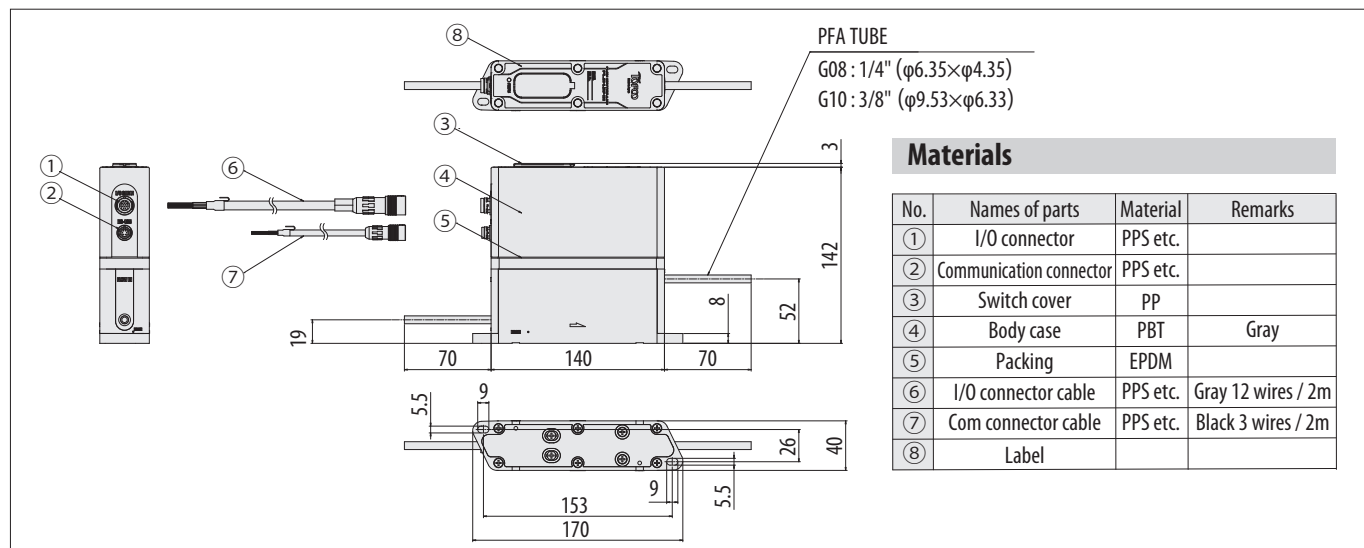
Specifications

Type	FLC-US40-G08	FLC-US40-G10
Liquid	DIW / Chemical (To be discussed)	
Specific Gravity	1.0	
Viscosity	1.0 mPa · s (To be discussed)	
Control Range	15–300 mL/min	25–500 mL/min
	25–500 mL/min	50–1000 mL/min
	50–1000 mL/min	100–2000 mL/min
	100–2000 mL/min	150–3000 mL/min 250–5000 mL/min
Connection Size	1/4" PFA TUBE (φ 6.35 × 4.35)	3/8" PFA TUBE (φ 9.53 × 6.33)
Input, Output	Analog 4–20 mA DC	
Operating Temp.	10–90°C	No dewing
Ambient Temp.	15–50°C	No dewing
Pressure Ranges	0.05–0.3 MPa (G)	0.1–0.3 MPa (G)
	0.1–0.3 MPa (G) : 2000 mL/min	0.15–0.3 MPa (G) : 5000 mL/min
Withstand pressure	0.5 MPa (G)	
Response	Fully closed and fully open 0.3 s	
Control Response	Within 1 s (to target value ±10%)	
Wetted Part	PTFE, PFA	
Flow control accuracy	R.D. ±1% ※10–100% of F.S.	
	Flow accuracy	Min. : 2 mL/min
	Flow control accuracy	R.D. ±1% ※ ≤20% of F.S. : ±0.2% of F.S.
	Stability	R.D. ±2% ※ ≤20% of F.S. : ±0.4% of F.S.
	Repeatability	R.D. ±1%
	Min. : 1 mL/min	Min. : 2 mL/min

Configurational diagram



Structural drawing



※ Due to product development, specifications may change without notice.