

## Liquid feeding pump ideal for flow chemistry

The pump enables liquid feeding substantially free of pulses at low flow velocities. Under communication control, the pump is compatible with our automated synthesizers, OptimFlow and AltaFlow, in addition to standalone use.

- ▶ Longer plunger seal life
- ▶ Compact design with small footprint
- ▶ Head material selectable from SUS, PEEK, and PCTFE



### Specifications

Model	FC-F-PP-110S	FC-F-PP-110P	FC-F-PP-110D	FC-F-PP-410S	FC-F-PP-410P	FC-F-PP-410D
Head Material	(SUS)	(PEEK)	(PCTFE)	(SUS)	(PEEK)	(PCTFE)
Maximum Discharge Pressure*1	35 MPa	20 MPa	2 MPa	5 MPa	5 MPa	2 MPa
Flow Rate Range*2	0.001–9.999 mL/min			0.01–99.99 mL/min		
Discharge Rate per Head	80 µL			708 µL		
Plunger Stroke	10 mm					
Flow Reproducibility*3	< 0.3% (0.1–5.0 mL/min)			< 0.3% (1.0–50 mL/min)		
Flow Rate Accuracy*3	±2% or 2 µL/min, whichever is greater			±2% or 20 µL/min, whichever is greater		
Pump Drive	Linear drive					
Special Features	- Flow rate correction - Pressure limiter for upper and lower limits					
Pressure Display Accuracy	±0.2 Mpa					
Wetted Part Material	SUS316, PFA, Teflon elastomer, Sapphire, Ruby, PTFE, PCTFE	PEEK, PFA, ETFE, Teflon elastomer, Sapphire, Ruby, PTFE, PCTFE	PCTFE, PFA, Teflon elastomer, Sapphire, Ruby, PTFE, ETFE	SUS316, PFA, Teflon elastomer, Sapphire, Ruby, PTFE, PCTFE	PEEK, PFA, ETFE, Teflon elastomer, Sapphire, Ruby, PTFE, PCTFE	PCTFE, PFA, Teflon elastomer, Sapphire, Ruby, PTFE, ETFE
External Input-output Signals	Input: PUMP ON/OFF Output: Error and Pressure Monitoring					
Communication	RS232C and RS485 (pump-to-pump communication)					
Dimensions (Width × Depth × Height)	105 × 240 × 144 mm (excluding protrusions)					
Weight	Approx. 5.6 kg					

\*1: The maximum discharge pressure is the maximum instantaneous pressure and is not the normal maximum discharge pressure at the maximum flow velocity.

\*2: Unable to feed liquid for an extended period at the maximum flow rate. \*3: Test data under conditions defined by DFC Co., Ltd.