



Switching Delivery Pump  
DP-11

## Switching Delivery Pump DP-11

A single unit controlling high accuracy flow in multiple flow paths and useful in combined pump/valve applications

### Features

- Check valve-less design
- Can set flow to multiple paths
- High chemical resistance
- High accuracy flow volume
- Superior reliability
- Remote control via RS232C communication

Product Name		Switching Delivery Pump
Product Number		DP-11
Pump Mechanism		Concentric Revolving Control Piston/Reciprocating Method
Pump Flow Modes		Measuring mode, Continuous flow mode, One-shot flow mode ※when remote controlled
Ports		6
Measuring Volume Settings		0.001 ~ 9.999 mL 0.01 ~ 99.99 mL 0.1 ~ 999.9 mL 1 ~ 9999 mL any of the above selectable 0.001 ~ 9999.999mL ※when remote controlled
Flow Rate Settings	Continuos Flow	0.1 ~ 10.0 mL/min (8 mm stroke) 0.1 ~ 6.0 mL/min (4 mm stroke)
	One-Shot Flow	0.1 ~ 25.0 mL/min ※when remote controlled
Maximum Pressure		0.5 (72.5 psi) MPa or less
Volume Per Stroke		300 µL (8 mm stroke)
Measuring Mode	Accuracy	± 1.0 % or ± 0.01 mL or less, whichever is greater* <sup>1</sup>
	Repeatability	0.1 % RSD or 0.001 mL SD or less, whichever is greater* <sup>1</sup>
Continuous Flow Mode	Accuracy	± 2.0 % or less, only when pumping 1 mL/min or higher* <sup>2</sup>
	Repeatability	0.1 % RSD or 0.005 minutes SD or less, whichever is greater* <sup>2</sup>
Special Functions		Variable piston stroke (8 mm / 4 mm) Piston quick movement (suction / discharge) Flow volume correction
Port Type		1/4-28 UNF
Connecting Tube Diameters		1/8", 3.0 mm, 2.0 mm, 1/16"
Wetted Materials		Ceramic, PCTFE, PTFE, FFKM
Remote Control Signals		Measuring: start measuring, end measuring Continuous flow: start continuous, error either one of the above sets
Communication		RS232C, RS485 (between FLOM devices)
Dimensions		144 (H) × 79 (W) × 240 (D) mm, excluding protuberances
Weight		Approx. 2.4 kg
Power		AC 100 ~ 240 V (50 / 60 Hz), MAX 80 VA
Order Code		SSD-F022

\*1: Pure water : Pump Pressure ≒ 0.0MPa

\*2: Methanol : Pump Pressure ≒ 0.0MPa

### DP-11 Optional Accessories

P/N	Product Name	Notes
9823D	1/8" Flat Seal Fitting D (10/Pack)	For OD 3.0 mm, 1/8" tubing
9774	1/8" Flat Seal Ferrule (10/Pack)	For OD 1/8" tubing
9775	3.0 mm Flat Seal Ferrule (10/Pack)	For OD 3.0 mm tubing
9773	1/16" HEX Flat Seal Fitting (10/Pack)	For OD 1/16" tubing
9706	1/16" M6 Flat Seal Ferrule (10/Pack)	For OD 1/16" tubing
8810	Suction Filter	For OD 3.0 mm, 1/8" tubing
8811	Suction Filter	For OD 1/16" tubing
2710	1/4-28 Seal Plug (4/pack)	DP-11 Stop plug

