

# HPLC pump and injector

## Key features

- ### The HPLC solvent pump
- Developed as solvent pumps for preparative chromatography, "K series" are perfect as pumps for the preparative HPLC system, "K-Prep". Double plungers and a high precision servo motor allows highly accurate pumping with minimized pulsation.
- **A wide range of flow rate:** The minimum flow rate is precisely 1/1000 of the maximum.
  - **Gradient operation:** Adding on the sub-pump enables gradient operation.
  - **Computer control:** Gradient and flow rate are easily programmable.
  - **Recycle compatibility:** The dead volume is extremely low so that the recycle characteristics are outstanding.
  - **Self wash (optional):** Cleaning fluid is pumped through the ports to the plunger, which facilitates the use of corrosive substances such as salt.
  - **Explosion proof (optional):** Explosion-proofed pumps are also available.
  - **High flow:** High flow pumps such as 3L, 5L, and over 10L/min are also available.



K-100



K-1000

### Standard specifications

	K-100	K-300
flow rate range	0.1–100mL/min	0.3–300mL/min
pressure limit	20MPa	10MPa
pumping mechanism	double plunger, linear cam driven	
pumping method	constant flow	
connection	zirconia, reinforced Teflon PEEK, ruby, sapphire	
power requirement	AC100(AC-200)	50/60Hz 0.6kW
dimension	225(W) x 485(D) x 205(H)	

### Standard specifications

	K-500	K-1000
flow rate range	0.5–500mL/min	1–1000mL/min
pressure limit	10MPa	10MPa
pumping mechanism	double plunger, linear cam driven	
pumping method	constant flow	
connection	zirconia, reinforced Teflon PEEK, ruby, sapphire	
power requirement	AC100(AC-200)	50/60Hz 0.6kW
dimension	380(W) x 550(D) x 220(H)	

## Auto-injector

Easy to use! Excellent for users having difficulty with sample injection.

## Key features

- Excellent for repetitive injection of identical samples.
- Internal timer allows for continuous automated operation.
- Operation is controlled by internal computer.
- 10mL or 5mL syringes can be used.
- Remote control is conducted via external equipment.
- The syringe does not absorb sample so that cleaning is not necessary.



### Standard specifications

	IS-50	IS-100
Sample loop	50mL	100mL
Dimensions of the syringe	25mL (laminated to be over 25mL)	
Syringe drive	stepper-motor	
Oscillator	SUS-316 PTFE	
Valve pressure limit	10MPa	
Connection tube	1/16inch	1/8inch
Minimum injection mass	syringe 1/10 (or 1mL)	