



Dual Pump KP-22D

Product name	All-Polymer Wetted Path Dual Pump	
Part number	KP-22-13D	KP-22-33D
Max pressure ^{*1}	2MPa	1MPa
Flow rate range ^{*2}	0.01~10.0mL/min	0.1~50.0mL/min
Flow per stroke	32ul	154ul
Flow accuracy	±0.3%	
Features	Pulse control, Flow volume compensation, Pressure loss compensation, Constant pressure flow ^{*3} , Set volume dispensing	
Pressure accuracy	±5%	
Wetted materials	Sapphire, Ruby, PTFE, ECTFE, ETFE	
Remote control	Input: Pump on/off, Output: Error signal	
Communication	RS232C	
Dimensions (mm)	144(H) x 79(W) x 285(D) (excluding protuberances)	
Weight	approx. 3.8kg	
Order code	SDP-P1114	SDP-P1111

* The specifications and product design may change without prior notice.
 * For custom specifications, contact FLOM.
^{*1} Maximum pressure is only sustained intermittently. Continuous pump operation at maximum pressure cannot be guaranteed.
^{*2} The unit cannot run continuously at maximum flowrate.
^{*3} Constant pressure flow mode adjusts the flow rate in real time to stabilize the average pressure value set. It is not a pulse control function.

All-Polymer Wetted Path Pump (with pressure sensor) Dual Pump KP-22D

A pump using solvent-resistant polymer throughout the wetted path

Features

- high precision and stable flow volumes
- equipped with pulse control for reduced fluctuations in pressure
- easy to read backlit LCD display
- real-time display of pressure
- Upper-limit pressure switch
- metered flow mode allows setting to desired flow volumes
- RS-232C interface for computer control
- entire wetted path uses fluorocarbon polymer materials
- can choose from 2 different models to match desired flow ranges
- optional inert (PEEK) pump
- same space-saving compact design



Dual Pump KP-24

Product name	Dual Pump		
Part number	KP-24-01	KP-24-13	KP-24-33
Max pressure ^{*1}	25MPa/20MPa	25MPa/20MPa	5MPa
Flow rate range ^{*2}	0.001~1.0mL/min	0.01~10.0mL/min	0.1~50.0mL/min
Flow per stroke	4ul	32ul	154ul
Flow accuracy	±0.3%		
Features	Pulse control, ^{*3} Flow volume calibration, Upper pressure limiter, Constant pressure flow, ^{*4} Set volume dispensing		
Pressure accuracy	±5%		
Wetted materials	SS type: SS, Sapphire, Ruby, PTFE, PCTFE PEEK type: PEEK, Sapphire, Ruby, PTFE, PCTFE		
Remote control	Input: Pump on/off, Output: Error signal		
Communication	RS232C		
Dimensions (mm)	125(H) x 140(W) x 190(D) (excluding protuberances)		
Weight	SS Type: approx. 4.3kg / PEEK Type: approx 3.8kg		
Order code (PEEK)	SDP-P1149	SDP-P1145	SDP-P1147
Order code (SS)	SDP-P1150	SDP-P1146	SDP-P1148

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 * For custom specifications, contact FLOM.
^{*1} The maximum pressure is 25MPa for SS type and 20MPa for PEEK type. Maximum pressure is only sustained intermittently. Continuous pump operation at maximum pressure cannot be guaranteed.
^{*2} The unit cannot run continuously at maximum flowrate.
^{*3} Pulse control is activated below the flow pressure of 5MPa.
^{*4} Constant pressure flow mode adjusts the flow rate in real time to stabilize the average pressure to the value set. It is not a pulse control function.

Medium/High Pressure Pump (with pressure sensor) Dual Pump KP-24 Series

Same functionality of the KP-22 Series, new form factor with reduced height and depth

Features

- high precision and stable flow volumes
- equipped with pulse control for reduced fluctuations in pressure
- easy to read backlit LCD display
- real-time display of pressure
- column integrity protected by convenient upper-limit pressure switch
- metered flow mode allows setting to desired flow volumes
- RS-232C interface for computer control
- variety of seals to choose from depending on solvent
- can choose from 3 different models to match desired flow ranges
- can choose PEEK or SUS depending on solvents used
- space-saving compact design reduces height and depth