

Dual Pump
KP-22-13, SSDual Pump
KP-22-13, PEEKDual Pump
KP-22-13, PCTFE

Medium to High Pressure Pumps Dual Pump KP-22 Series

A general-use pump with pressure sensor

Features

- High precision and stable flow volumes
- Equipped with pulse control for reduced fluctuations in pressure
- Real-time display of pressure
- Metered flow mode allows setting to desired flow volumes
- Upper and lower pressure limiter
- RS-232C interface for computer control
- Variety of seals to choose from depending on solvent
- Choose from 3 different models to match desired flow ranges
- Choose from 3 different pump head materials

Product name	Dual Pump with pressure sensor								
Part number	KP-22-01			KP-22-13			KP-22-33		
Pump head material	SS	PEEK	SS	PEEK	PCTFE	SS	PEEK	PCTFE	
Max pressure *1	30 MPa	20 MPa	30 MPa	20 MPa	2 MPa	5 MPa	5 MPa	2 MPa	
Flow rate range *2	0.001 ~ 1.000 mL/min			0.01 ~ 10.00 mL/min			0.1 ~ 50.0 mL/min		
Flow per stroke	4 µL			32 µL			154 µL		
Flow accuracy	± 0.3 %								
Features	Pulse control *3, Flow volume calibration, Upper and lower 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 PCTFE type: PCTFE, Sapphire, Ruby, PTFE, ETFE								
Remote control	Input: Pump on/off, Output: Error signal								
Communication	RS232C								
Dimensions	144 (H) x 79 (W) x 285 (D) mm								
Weight	SS type: 4.3 kg, PEEK and PCTFE type: 3.8 kg								
Order code	SDP-P1081	SDP-P1080	SDP-P1077	SDP-P1076	SDP-P1114	SDP-P1079	SDP-P1078	SDP-P1111	

*1: Maximum pressure is only sustained intermittently. Continuous pump operation at maximum pressure cannot be guaranteed.

*2: The unit cannot run continuously at maximum flow rate.

*3: Pulse control is activated below the flow pressure of 5 MPa.

*4: Constant pressure flow mode adjusts the flow rate in real time to stabilize the pressure at the set range.

Note: The specifications and product design may change without prior notice.

Dual Pump
KP-21-13, SSDual Pump
KP-21-13, PEEK

Medium to High Pressure Pumps Dual Pump KP-21 Series

A general-use pump without pressure sensor

Features

- High precision and stable flow volumes
- RS-232C interface for computer control
- Variety of seals to choose from depending on solvent
- Choose from 3 different models to match desired flow ranges
- Choose from 2 different pump head materials

Product name	Dual Pump without pressure sensor					
Part number	KP-22-01		KP-22-13		KP-22-33	
Pump head material	SS	PEEK	SS	PEEK	SS	PEEK
Max pressure *1	30 MPa	20 MPa	30 MPa	20 MPa	5 MPa	5 MPa
Flow rate range *2	0.001 ~ 1.000 mL/min		0.01 ~ 10.00 mL/min		0.1 ~ 50.0 mL/min	
Flow per stroke	4 µL		32 µL		154 µL	
Flow accuracy	± 0.3 %					
Features	Flow volume calibration, Set volume dispensing					
Pressure accuracy	-					
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	144 (H) x 79 (W) x 285 (D) mm					
Weight	Approx. 3.4 kg					
Order code	SDP-P1087	SDP-P1086	SDP-P1083	SDP-P1082	SDP-P1085	SDP-P1084

*1: Maximum pressure is only sustained intermittently. Continuous pump operation at maximum pressure cannot be guaranteed.

*2: The unit cannot run continuously at maximum flow rate.

Note: The specifications and product design may change without prior notice.