

PCS Pump
SP-32-13SPCS Pump
SP-32-13P

Cam-drive Single Plunger Pump PCS Pump SP-32 Series

Single plunger pump equipped with pressure sensor

Features

- ☐ Uses proven cam-driven pump structure
- ☐ Maximum flow rate can be set for continuous operation
- ☐ Quick Plunger Motion for pulse control
- ☐ Pressure sensor allows setting upper / lower limits
- ☐ 3 selectable flow modes
- ☐ 8 separate configurations of flow range / pump head material
- ☐ Control with RS232C protocol

Product Name	PCS Pump (with pressure sensor)							
Product Number	SP-32-12S	SP-32-12P	SP-32-13S	SP-32-13P	SP-32-42S	SP-32-42P	SP-32-43S	SP-32-43P
Pumphead Material	SUS316	PEEK	SUS316	PEEK	SUS316	PEEK	SUS316	PEEK
Max Pressure* ¹	35MPa (5075psi)	20MPa (2900psi)	25MPa (3625psi)	20MPa (2900psi)	5MPa (725psi)	5MPa (725psi)	2MPa (290psi)	2MPa (290psi)
Flow Rate Range	0.001 ~ 2.500 mL/min		0.001 ~ 5.000 mL/min		0.01 ~ 25.00 mL/min		0.01 ~ 50.00 mL/min	
Flow Per Stroke	16 μL		32 μL		144 μL		287 μL	
Plunger Stroke	2 mm		4 mm		2 mm		4 mm	
Flow Repeatability* ²	< 0.5 % RSD (at 0.100 mL/min or greater)				< 0.5 % RSD (at 1.00 mL/min or greater)			
Flow Accuracy* ²	± 2.0 % or ± 2 μL/min or less, whichever is greater				± 2.0 % or ± 20 μL/min or less, whichever is greater			
Features	Quick Plunger Motion , Continuous Flow , Timer Mode , Consistent Pressure Mode , Upper / Lower Pressure Limiters							
Pressure Accuracy	± 0.2 MPa (± 29 psi)							
Wetted Materials	SUS : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , ELGIROY®* ³ , PEEK , SUS PEEK : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , FFKM , PEEK							
Remote Control	Input : START / STOP , Output : ERROR / FUNC (either one of READY / END / RUN) DC1-5V Input : Setup flow rate , DC1-5V Output : Pressure signal							
Communication	RS232C , RS485 (between FLOM devices)							
Dimensions	144 (H) × 79 (W) × 240 (D) mm , excluding protuberances							
Weight	Approx. 2.8 kg							
Power	DC24V , Max 30 W (AC adapter standard)							
Order Code	SSP-P3514	SSP-P3513	SSP-P3517	SSP-P3516	SSP-P3520	SSP-P3519	SSP-P3523	SSP-P3522

*1: Maximum pressure is only sustained intermittently, this does not mean maximum pressure under continuous use.

*2: Test data generated under FLOM's standard test conditions.

*3: ELGILOY® is a registered trademark of the Elgiroy Specialty Metals.

PCS Pump
SP-31-13SPCS Pump
SP-31-13P

Cam-drive Single Plunger Pump PCS Pump SP-31 series

Single plunger pump without pressure sensor

Features

- ☐ Uses proven cam-driven pump structure
- ☐ Maximum flow rate can be set for continuous operation
- ☐ Quick Plunger Motion for pulse control
- ☐ Cost-saving without equipping pressure sensor
- ☐ 2 selectable flow modes
- ☐ 8 separate configurations of flow range / pump head material
- ☐ Control with RS232C protocol

Product Name	PCS Pump (without pressure sensor)							
Product Number	SP-31-12S	SP-31-12P	SP-31-13S	SP-31-13P	SP-31-42S	SP-31-42P	SP-31-43S	SP-31-43P
Pumphead Material	SUS316	PEEK	SUS316	PEEK	SUS316	PEEK	SUS316	PEEK
Max Pressure* ¹	35MPa (5075psi)	20MPa (2900psi)	25MPa (3625psi)	20MPa (2900psi)	5MPa (725psi)	5MPa (725psi)	2MPa (290psi)	2MPa (290psi)
Flow Rate Range	0.001 ~ 2.500 mL/min		0.001 ~ 5.000 mL/min		0.01 ~ 25.00 mL/min		0.01 ~ 50.00 mL/min	
Flow Per Stroke	16 μL		32 μL		144 μL		287 μL	
Plunger Stroke	2 mm		4 mm		2 mm		4 mm	
Flow Repeatability* ²	< 0.5 % RSD (at 0.100 mL/min or greater)				< 0.5 % RSD (at 1.00 mL/min or greater)			
Flow Accuracy* ²	± 2.0 % or ± 2 μL/min or less, whichever is greater				± 2.0 % or ± 20 μL/min or less, whichever is greater			
Features	Quick Plunger Motion , Continuous Flow , Timer Mode							
Pressure Accuracy	-							
Wetted Materials	SUS : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , ELGIROY®* ³ , PEEK , SUS PEEK : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , FFKM , PEEK							
Remote Control	Input : START / STOP , Output : ERROR / FUNC (either one of READY / END / RUN) DC1-5V Input : Setup Flow rate , DC1-5V Output : -							
Communication	RS232C , RS485 (between FLOM devices)							
Dimensions	144 (H) × 79 (W) × 240 (D) mm , excluding protuberances							
Weight	Approx. 2.8 kg							
Power	DC24V , Max 30 W (AC adapter standard)							
Order Code	SSP-P3502	SSP-P3501	SSP-P3505	SSP-P3504	SSP-P3508	SSP-P3507	SSP-P3511	SSP-P3510

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