



Linear-Drive Pulsation Control Intelligent Pump UI-32 Series

Combines high-precision flow and ease of use



Intelligent Pump
UI-32-110S

Intelligent Pump
UI-32-110P

Features

- ☐ Provides ultra-low pulsation continuous flow
- ☐ Trouble related to air bubble greatly reduced
- ☐ Long life plunger seal
- ☐ Selectable 3 convenient flow modes
- ☐ Upper and lower pressure limiters
- ☐ Space-saving compact design
- ☐ Control with RS232C communication protocol
- ☐ Choose SUS, PEEK, or PCTFE (under development)

Product Name	Intelligent Pump			
Product Number	UI-32-110S	UI-32-110P	UI-32-410S	UI-32-410P
Pump Head Material	SUS316	PEEK	SUS316	PEEK
Max Pressure* ¹	40 MPa (5800 psi)	20 MPa (2900 psi)	5 MPa (725 psi)	5 MPa (725 psi)
Flow Rate Range* ²	0.001 ~ 9.999 mL/min		0.01 ~ 99.99 mL/min	
Flow Per Stroke	80 μL		718 μL	
Plunger Stroke	10 mm			
Flow Repeatability* ²	< 0.3 % (0.1 ~ 5.0 mL/min)		< 0.3 % (1 ~ 50 mL/min)	
Flow Accuracy* ²	± 2.0 % or ± 2 μL/min or less, whichever is greater (at 5 mL/min or the lower)		± 2.0 % or ± 20 μL/min or less, whichever is greater (at 50 mL/min or the lower)	
Flow Mode	Continuous flow mode , Consistent pressure flow mode , Timer flow mode			
Satefy Function	Upper / lower pressure limiters			
Pressure Accuracy	± 0.2 MPa (± 29 psi)			
Wetted Materials	SUS : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , FFKM , ELGILOY®* ³ , PEEK , SUS316 PEEK : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , FFKM , PEEK ,ETFE			
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. 3.8 kg	Approx. 3.0 kg	Approx. 3.8 kg	Approx. 3.0 kg
Power	AC100 ~ 240V (50 / 60 Hz) , MAX 80 VA			
Environment Temperature	5 ~ 40 °C , 20 ~ 80 % RH (Non-condensing)			
Order Code	SLP-P5006	SLP-P5008	SLP-P5010	SLP-P5011

*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 Elgiloy Specialty Metals.

Automated Pressure Control for UI and MP Series Auto Backpressure Regulator BP-11 Series

Automatic pressure regulation for changes due to factors such as temperature and flow fluctuations

Features

- ☐ Provide consistent pressure by tracking variable pump pressure in real time
- ☐ UI and MP Series provide stable flow, BP-11 Series maintains set pressure



Auto Backpressure Regulator
BP-11S

Product Name	Auto Backpressure Regulator	
Product Number	BP-11S	BP-11D
Wetted Materials	SUS316, PFA	PCTFE, PFA
Path Diameter	0.6 mm	
Setup Pressure Range	0.10 ~ 5.00 MPa (14.5 ~ 725 psi)	
Flow Rate Range	0.1 ~ 100 mL/min	
Features	Manual mode, Auto-stop	
Pressure Accuracy* ¹	± 0.1 MPa (± 14.5 psi)	
Pressure Signal Range	Uses pressure signal from UI / MP pumps [DC1 - 5V]	
Remote Control	Input: Start / Stop, Output: FUNC RS232C, RS485 (between FLOM devices)	
Dimensions	144 (H) × 79 (W) × 240 (D) mm, excluding protuberances	
Weight	Approx. 2.7 kg	
Power	AC100 ~ 240 V (50 / 60 Hz), MAX 70 VA	
Order Code	SBP-F012	SBP-F019

*1: Using pure water or methanol, pressure 0.5 ~ 5.0 MPa / flow rate 0.1 ~ 50.0 mL/min.

※: Please contact us if you need flow rates outside 0.1 ~ 50 mL/min.