



Intelligent Pump
UI-22-110, SS

Linear Drive Pulse Control Intelligent Pump UI-22 Series

Combines High Precision Flow with Ease of Use

Features

- Reduces pulsation to an absolute minimum, making super low pulsation flow possible
- Problems with bubbles greatly reduced
- Plunger seal life extended
- Limit switches for both high and low pressures
- Space-saving compact design
- 2 or more pumps can be externally controlled thru RS-232C interface
- Choose either PEEK or Stainless Steel to match solvent used

PUMP UNIT

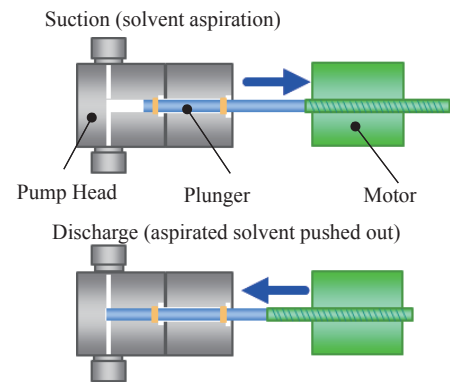
Product name	Intelligent Pump			
Part number	UI-22-110		UI-22-410	
pump head material	SS	PEEK*2	SS	PCTFE
Max pressure*1	35 MPa	20 MPa	5 MPa	2 MPa
Flow rate range	0.001~9.999 mL/min		0.01~99.99 mL/min	
Flow per stroke	80 µL		708 µL	
Plunger stroke	10 mm			
Flow accuracy	< 0.3 %			
Features	Active pulse reduction, Flow volume calibration, Upper and lower pressure limeter			
Pressure accuracy	< 5%			
Wetted materials	SS type: SS, Sapphire, Rubby, PTFE, PCTFE PEEK type: PEEK, Sapphire, Rubby, PTFE, PCTFE PCTFE type: PCTFE, Sapphire, Rubby, PTFE, ETFE			
Remote control	Input: Pump on/off, Output: Error signal			
Communication	RS232C			
Dimensions	144 (H) x 105 (W) x 240 (D)			
Weight	5.6 kg			
Order code	SLP-P509	SLP-P514	SLP-P511	SLP-P510

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

*2: Will release on Summer 2017

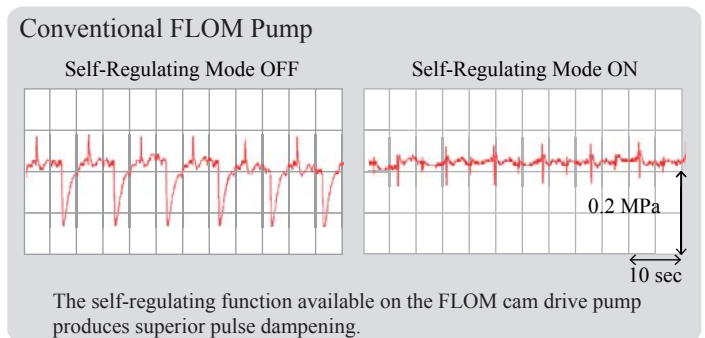
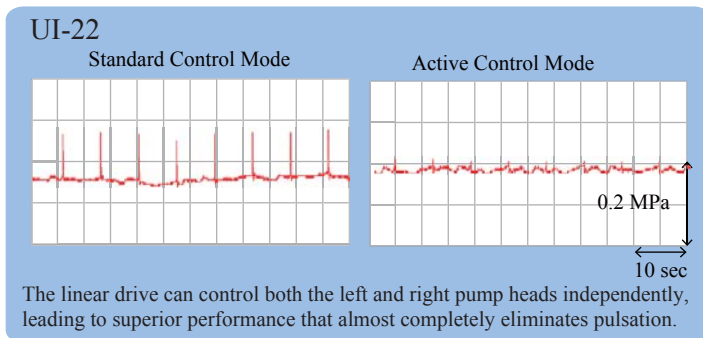
Note: The specifications and product design may change without prior notice.

Linear Drive Design



The UI-22 pump uses a linear driver mechanism in which the plunger moves in line with the motor's axis. Because aspirated air can be easily discharged, and with the seal suffering almost no wear, tiny leaks from the seal are eliminated, which means that even highly volatile solvents can be efficiently pumped.

• Comparison of Pulsation with a Conventional Pump



• Air Mixture Tests

