



Intelligent Pump  
AI-12-13 SUS

Intelligent Pump  
AI-12-13 PEEK

## Pulse Control Pumps Intelligent Pump AI-12 Series

A high performance pump with pressure sensing and real-time pulse control.

### Features

- high precision and stable flow volumes
- easy to read backlighted LCD display
- self-regulating mechanism greatly reduces pressure fluctuations
- column integrity protected by convenient upper-limit pressure switch
- low-pressure limit switch allows automatic shutdown upon leak detection
- RS-232C interface for computer control
- multi-layer, solvent-resistant seal design
- can choose from 3 different models to match desired flow ranges
- space-saving compact design
- choose either PEEK or SS to match solvent used

Product name	Intelligent Pump		
Part number	AI-12-01	AI-12-13	AI-12-33
Max pressure *1	30MPa/20MPa	30MPa/20MPa	5MPa
Flow rate range	0.001~0.999ml/min	0.01~9.99ml/min	0.1~50.0ml/min
Flow per stroke	4ul	32ul	154ul
Flow accuracy	±0.3%		
Features	Active pulse reduction, Flow volume calibration, Upper pressure limiter, Lower pressure limiter, gradient flow*2		
Pressure accuracy	±5%		
Wetted materials	SS type: SS, Sapphire, Rubby, PTFE, PCTFE PEEK type: PEEK, Sapphire, Rubby, PTFE, PCTFE		
Remote control	Input: Pump on/off, Output: Error signal		
Communication	RS232C		
Dimensions (mm)	144(H) x 79(W) x 305(D)		
Weight	3.8~4.3kg		
Order code (PEEK)	SIP-P2005	SIP-P2001	SIP-P2003
Order code (SS)	SIP-P2006	SIP-P2002	SIP-P2004

\* The maximum pressure is 30MPa for SS types and 20MPa for PEEK type.

\* 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 At least 2 pumps needed for gradient flow.

### Pressure Pulsation Data

