

Autoclave Compliant Micro Precision Pump For Laboratory Use



Smoothflow® Pump **Q Series**

Flow Setting Range: 0.1~100mL/min

Maximum Discharge Pressure: 0.3MPa (43.5psi)

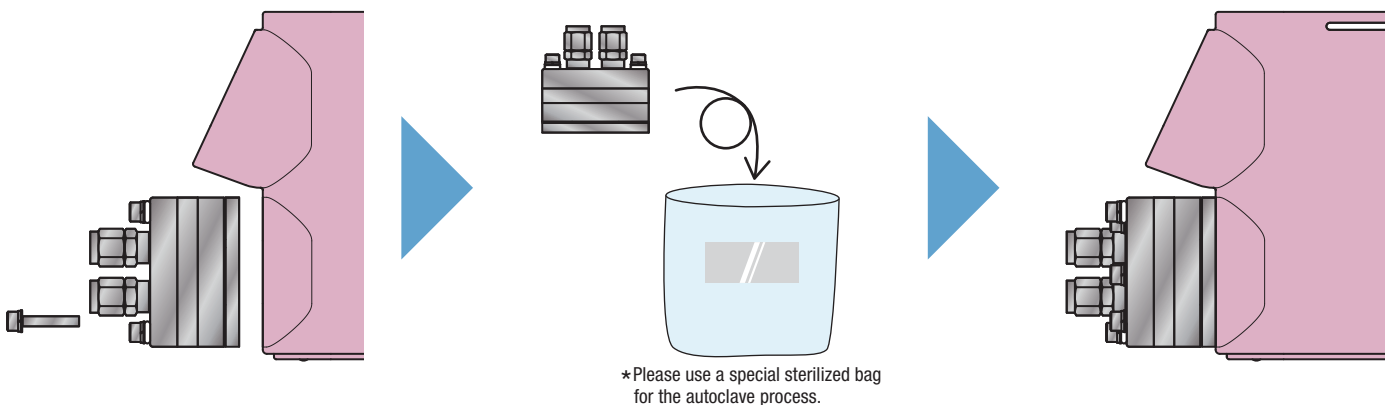
**Desorption and Autoclave are easy
since the wetted parts are a cartridge type.**

■ Autoclave Procedure

① Remove the head bolts and remove the pump head from the main body.

② Perform the autoclave process on the pump head.

③ Attach the pump head back to the main unit.



■ Application Examples

- Continuous Micro-fluidic Transfer of Cell Culture Fluid
- Aseptic Filling Lines
- Reagent Delivery in Biotechnology and Pharmaceutical Research

- Culture Medium, Cell Collection
- Reagent Delivery to Various Analyzers
- Transfer of Various Chemicals in a Lab ... Etc.

Strengths

- Compatible with **Autoclave**
- **Easy on the Transfer Liquid**
- **Easy Desorption** on the Cartridge Type Pump Head
- **Continuous, Constant,** Pulsation-free Flow
- Constant, Stable **Quantification and Accurate Liquid Transfer**
- **Easy Flow Rate Setting and Calibration**
- Extensive **Control Functions** Lineup
- **Long Lifespan of Consumable Parts**
- Capable of **Scaling Up**

Specifications

Control Type		Standard Type Input/Output Control Type } 3 Types Timer Control Type
Materials	Pump Head	SUS316
	Diaphragm	PTFE
	Packing	FFKM
	Body/Casing	PPO
	Tube	PTFE
Flow Rate Setting Range		0.1~100 mL / min (1.6G/h)
Discharge Pressure		~0.3 MPa (43.5psi)
Ambient Temperature		0~40 °C *1
Transfer liquid temperature		0~40 °C (no freezing) 0 to 60 °C for the Q□-100-6T depending on the conditions (no freezing) *2
Transfer Liquid Viscosity		~200 mPa · s
Power Supply		AC 100~240 V (±10%) Power Cord with plug (2m) included
Weight *3		2.9 kg
Standard Accessories	Tube(φ4 x φ6)	2 m
	Syringe(24mL)	1 Syringe
	Non-slip Sheet	1 Sheet
	Pump Base	1 Set
	Pump Base Fixing Bolts	4 Sets
	Special Tool for Pump Head Assembly	1 Set
	Instruction Manual	1 Set

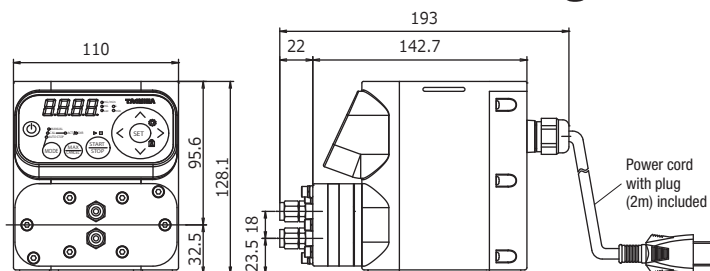
* Please inquire for details on the control type

*1 -10 to 50°C during transportation and storage.

*2 Contact TACMINA for the conditions.

*3 The weight of the stand is excluded.

Dimensional Drawing



Demonstration pumps and rental pumps are also available.

TACMINA CORPORATION

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Product designs and specifications are subject to change without notice for product improvement.

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