

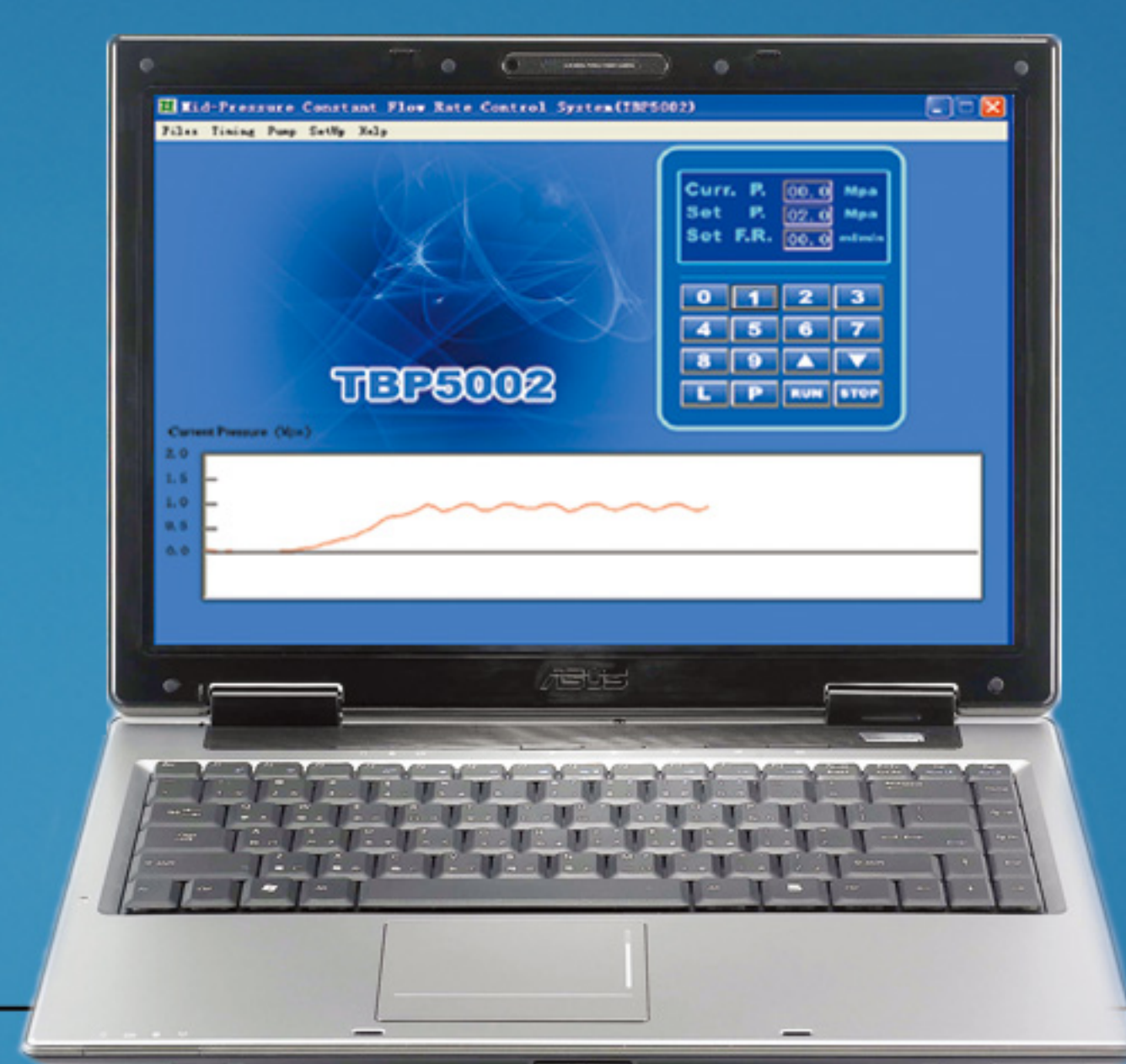


ISO 9001:2000



TAUTO

# Mid-pressure Piston Pump



**Solutions to**

Precise Liquid Delivery

[www.tautobiotech.com](http://www.tautobiotech.com)





# Company Qualification

- First Batch of High-tech Enterprises in Shanghai
- ISO 9001:2000 certified
- CE certified
- One of the most famous manufacturers of scientific equipment in China
- Global leader of Countercurrent Chromatography
- First class R&D Team of piston pumps
- Tauto piston pumps have better performance than other similar products at home and abroad
- Applicable to pharmaceutical, chemical, petrochemical, metallurgical and other industries



CE Certificate



ISO 9001:2000 Certificate



High-Tech Enterprise Certificate





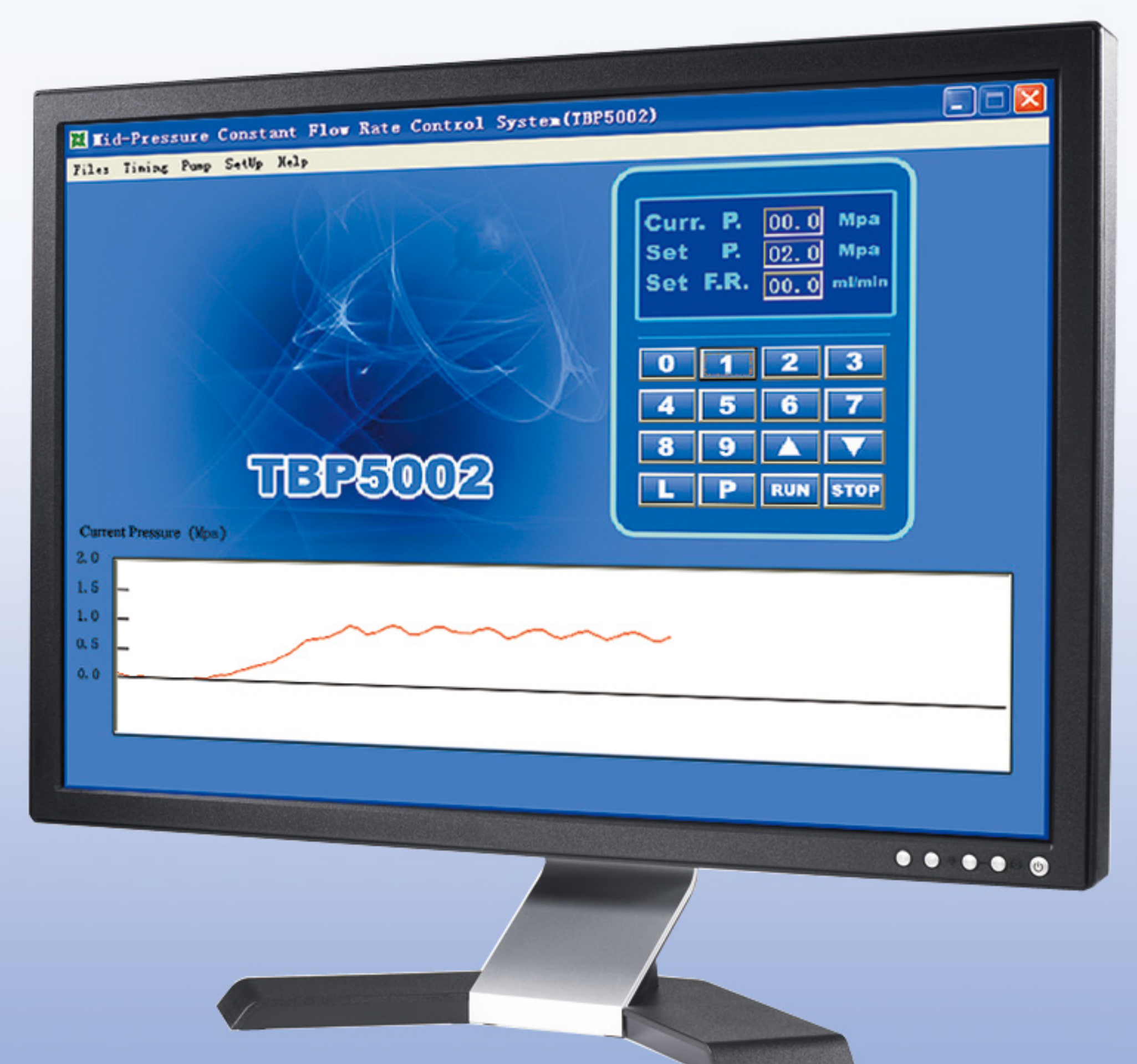
# Common Features of TAUTO Piston Pumps

- 1 Dual self flushing pump heads for reduced pulsation
- 2 Dual ball and high quality plunger for consistent and precise flow performance
- 3 Materials resistant to chemicals used, including organic solvents
- 4 Overvoltage protection and flow correction system
- 5 Memorizing of flow rate and pressure setting
- 6 Prime purge valve removes the bubbles in the liquid
- 7 Rs-232 Serial Com Port for complete control & status monitoring
- 8 Communication with PLC (customization)
- 9 Simple front panel key pad controls with big led display



## Software Functions

- 1 Real-time Display of Current Pressure, Set Pressure and Set Flow Rate
- 2 Real-time Display In Curve of Working Pressure
- 3 Operation via Computer
- 4 Timing Function For The Facility of Working Time Setting
- 5 Function of Saving Current Working Pressure For Checking
- 6 Function of Printing Important Parameters Such As Current Pressure





# TBP Series Piston Pumps



TBP1002



TBP1T02

With the piping and pump head made of high-quality 316L stainless steel, TBP Series Piston Pumps can resist the corrosion of the organic solvents. Widely used in chemical, pharmaceutical, biological, chemical, biological and food areas, the pumps can meet the requirement of accurate liquid transmission for scientific research institutes and enterprises of the above fields.

## Conventional Flow Type

Model	TBP1002	TBP1010	TBP5002	TBP5010	TBP2H02
Flow Rate	0.1-10.0 ml/min		0.1-50.0 ml/min		1-200 ml/min
Pressure	0-2.0 Mpa	0-10.0 Mpa	0-2.0 Mpa	0-10.0 Mpa	0-2.0 Mpa
Pulsation	≤ 0.08 Mpa		≤ 0.10 Mpa		≤ 0.20 Mpa
Pressure Accuracy	≤ 0.05 Mpa				≤ 0.10 Mpa
Flow Accuracy	≤ 1%		≤ 1%		≤2% (1-50 ml/min) ≤1.5% (50-200 ml/min)
Flow Precision	≤ 1%				≤ 1.5% (1- 50 ml/min) ≤ 1% (50-200 ml/min)
Flow Path Material	Ruby, 316L Stainless Steel, Zirconia Ceramics				
Power Source	220 V ± 10%, 50/60 Hz				
Power	75 W				
Weight	12 Kg				
Dimensions	360 mm × 260 mm × 160 mm				

## High Flow Type

Model	TBP5H02	TBP1T02
Flow Rate	1-500 ml/min	1-1000 ml/min
Pressure	0-2.0 Mpa	
Pulsation	$\leq 0.10$ Mpa	$\leq 0.20$ Mpa
Pressure Accuracy	$\leq 0.05$ Mpa	$\leq 0.05$ Mpa
Flow Accuracy	$\leq 2\%$ (1-100 ml/min) $\leq 1.5\%$ (100-500 ml/min)	$\leq 3\%$ (1-100 ml/min) $\leq 1.5\%$ (100-1000 ml/min)
Flow Precision	$\leq 1.5\%$ (1-100 ml/min) $\leq 1\%$ (100-500 ml/min)	$\leq 1.5\%$ (1-100 ml/min) $\leq 1\%$ (100-1000 ml/min)
Flow Path Material	Ruby, 316L Stainless Steel, Zirconia Ceramics	
Power Source	220 V $\pm$ 10%, 50/60 Hz	
Power	150 W	
Weight	22 Kg	30 Kg
Dimensions	400 mm $\times$ 290 mm $\times$ 170 mm	500 mm $\times$ 380 mm $\times$ 220 mm



# TBP-K Series Piston Pumps



TBP-K Series Piston Pumps(PEEK Pump Head)

With the piping and pump head made of PEEK material, TBP-K series can resist corrosion of chemicals, strong acid & alkali; as well as anti-hydrolysis and anti-fatigue. Mixed with toughness and rigidity, it has a broad scope of solvent compatibility, together with a full bio-compatibility that can protect the liquid with biological activity. This type is widely used in chemical, biological, petrochemical, coal, dyes, fine chemicals, pesticides, pharmaceuticals, food and other fields.

Model	TBP 1002K	TBP50 02K	TBP2 H02K
Flow Rate	0.1-10.0 ml/min	0.1-50.0 ml/min	1-200 ml/min
Pressure	0 — 2.0 Mpa		
Pulsation	≤ 0.08 Mpa	≤ 0.10 Mpa	≤ 0.2 Mpa
Pressure Accuracy	≤ 0.05 Mpa		≤ 0.1 Mpa
Flow Accuracy	≤ 1%	≤ 1%	≤ 2% (1- 50 ml/min) ≤ 1.5% (50-200 ml/min)
Flow Precision	≤ 1%		≤ 1.5% (1-50 ml/min) ≤ 1% (50-200 ml/min)
Flow Path Material	PEEK(polyether-ether-ketone), PTFE(poly fluortetraethylene), ruby, Zirconia Ceramics		
Power Source	220V± 10%, 50/60 Hz		
Power	75 W		
Weight	12 Kg		
Dimensions	360 mm × 260 mm × 160 mm		



# TBP-T Series Piston Pumps



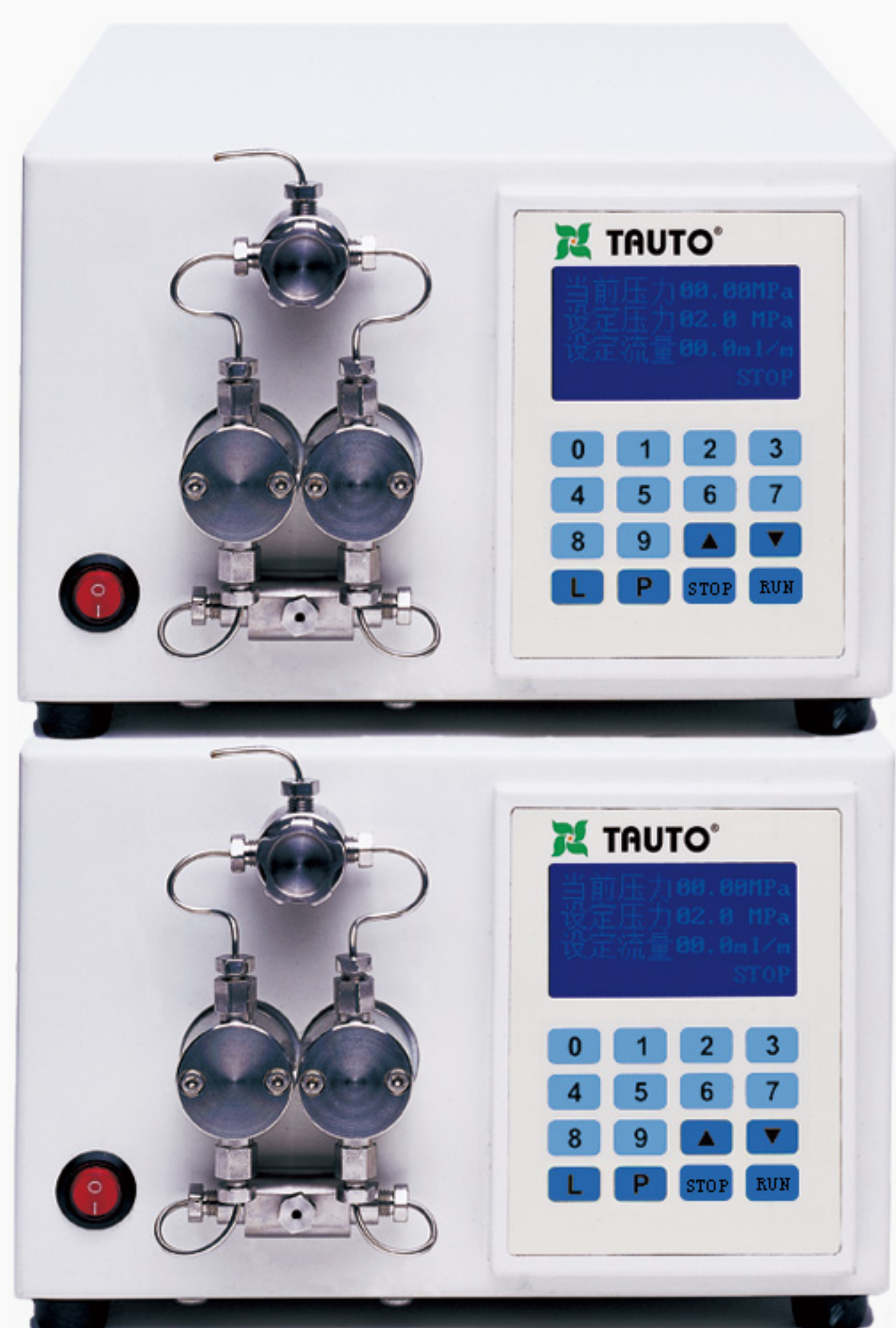
With the piping and pump head made of Titanium material, this type has the character of anti-corrosive to acid and alkali, and high strength. Widely used in metal, chemical, petrochemical, coal, dyes, fine chemicals, pesticides areas, the pumps can meet the requirements of strongly corrosion liquid transmission for scientific research institutes and enterprises in the above fields.

TBP-T Series Piston Pumps (Titanium Pump Head)

Model	TBP1002T	TBP1010T	TBP5002T	TBP5010T	TBP2H02T
Flow Rate	0.1-10.0 ml/min		0.1-50.0 ml/min		1-200 ml/min
Pressure	0-2.0 Mpa	0-10.0 Mpa	0-2.0 Mpa	0-10.0 Mpa	0-2.0 Mpa
Pulsation	≤ 0.08 Mpa		≤ 0.10 Mpa		≤ 0.20 Mpa
Pressure Accuracy	≤ 0.05 Mpa				≤ 0.10 Mpa
Flow Accuracy	≤ 1%		≤ 1%		≤2% (1-50 ml/min) ≤1.5% (50-200 ml/min)
Flow Precision	≤ 1%				≤ 1.5% (1- 50 ml/min) ≤ 1% (50-200 ml/min)
Flow Path Material	Titanium, ruby, Zirconia Ceramics				
Power Source	220 V ± 10%, 50/60 Hz				
Power	75 W				
Weight	12 Kg				
Dimensions	360 mm × 260 mm × 160 mm				



# Grad Series Gradient Pumps



The Grad series middle-pressure binary gradient pump is made up of two high-quality pumps. Each of them can be operated separately, which avoid the disadvantage of falling apart when fault exists in one pump.

The middle-pressure gradient is formed at the pump exit, which greatly lowered the mixed dead volume under low pressure gradient, and makes the gradient control much easier. The mixed way also dissolves the bubbles problem which always exists under low pressure gradient condition.

Mode 1	Grad10	Grad50
Least Increment	0.1 ml/min	
Increment Range	0.1-10.0 ml/min	0.1-50.0 ml/min
Mixture Range	0.0-100%	
Gradient Accuracy	1%	
Flow Rate	0.1-10.0 ml/min	0.1-50.0 ml/min
Pressure	0 — 5.0 Mpa	
Pulsation	≤ 0.08 Mpa	≤ 0.10 Mpa
Pressure Accuracy	≤ 0.05 Mpa	
Flow Precision	≤ 1%	≤ 1%
Flow Repeatability	≤ 1%	
Flow Path Material	Ruby, 316L Stainless Steel, Zirconia Ceramics	
Power Source	220V±10%, 50/60 Hz	
Power	75 W	
Weight	12 Kg	
Dimensions	360 mm × 260 mm × 160 mm	