

METROEPP®

Series metering pumps

The medium and high pressure metering pumps independently developed by Elite have the advantages of accurate flow rate, stable pressure and corrosion resistance, and are available in various materials.

Features

- MAX pressure: 20~45 MPa
- Flow gradient that can be adjusted over time
- A variety of pressure units (MPa, psi, bar) conversion display modes.
- Using microprocessor control, dual drive pump head and multi-point flow curve correction to ensure accurate flow rate
- Automatic flow rate compensation function ensures smooth flow and high stability.
- Double plunger parallel reciprocating metering pump produces a small pulsation.
- Real-time pressure detection display with high / low pressure limit alarm function.

Application range

- University experiments, R&D, pharmaceutical manufacturing, biotechnology, petrochemicals, etc.
- Special fields, such as feedstock for high-precision catalytic evaluation devices, feedstock for microreactors.

Material

- 316L stainless steel, titanium alloy, PEEK, fluorine material, Hastelloy, etc.



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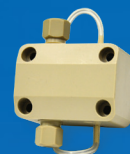
316L metering pump

The materials of this series of infusion pumps head and flow piping are high-quality 316L, especially suitable for pumping organic solvents, widely used in chemical, pharmaceutical, food, military and other fields.



Titanium alloy metering pump

The materials of this series of metering pumps head and flow piping are titanium metal, suitable for atmospheric pressure to high pressure, better corrosion resistance to acid and alkali salts and higher strength compared with stainless steel materials, suitable for petrochemical, coal, dyestuff, chemical, aerospace and other fields.



PEEK metering pump

This series of metering pumps are made of PEEK for pump head and flow path piping, used in atmospheric to medium pressure applications, with good corrosion resistance and full biocompatibility, especially suitable for the transfer of liquids with biological activity.



Fluorine material metering pump

The main material of this series of metering pumps is fluorine material, which is applied from atmospheric pressure to low pressure and can tolerate all organic and inorganic solvents, and can be applied in petrochemical, fine chemical, biopharmaceutical, aviation military and other fields at present.



Hastelloy

The main material of the pump head of this series of metering pumps is Hastelloy, which is one of the most corrosion-resistant modern metal materials. It is mainly resistant to wet chlorine, various oxidizing chlorides, chlorinated salt solutions, sulfuric acid and oxidizing salts, and has good corrosion resistance in low and medium temperature hydrochloric acid. It is widely used in chemical industry, petrochemical industry, flue gas desulfurization, paper making, environmental protection and other fields.

Performance Index

Item	METROEPP series											P series					
	EPP010S	EPP010T	EPP010Y	EPP010P	EPP010F	EPP050S	EPP050T	EPP050Y	EPP050P	EPP050F	EPP100S	EPP300S	P500+	P1000+	P2000+	P3000+	
Material	316 L		Hastelloy			316L	Titanium 9	Hastelloy	PEEK	Fluorine material	316L	316L					316L
Flow Rate	0.001-10.000 mL/min					0.01-50.00 mL/min					0.01-100.00 mL/min	0.01-300.00 mL/min	1-500 mL/min	1-1000 mL/min	1-2000 mL/min	1-3000 mL/min	
Repeatability	≤0.1%					≤0.3%					≤1%	≤1%	≤0.5%	≤0.5%	≤0.5%	≤0.5%	
Accuracy	≤±0.2%					≤±1.0%					≤±1.5%	≤±1.5%	≤±3%	≤±3%	≤±3%	≤±3%	
Pressure range	≤45 MPa	≤45 MPa	≤30 MPa	≤20 MPa	≤3 MPa	≤30 MPa	≤30 MPa	≤30 MPa	≤20 MPa	≤3 MPa	≤20 MPa	≤20 MPa	≤20 MPa	≤20 MPa	≤10 MPa	≤10 MPa	
Pressure pulsation	≤0.1 MPa					≤0.4 MPa					≤0.2 MPa	≤0.8 MPa	≤0.5 MPa	≤0.5 MPa	≤0.5 MPa	≤0.5 MPa	
Control mode	Dual control by computer and manual panel control																
Power Supply	AC 220 V±10%/50 Hz											AC 220 V±10% 50 Hz/60 Hz					
Power consumption	80 W					80 W					160 W		800 W				
Weight	10 kg					10 kg					18 kg		18 kg				
Boundary dimension	400×155×235 mm					400×155×235 mm					470×195×275 mm		600×350×230 mm				