

BRFS Flotation Reagent Automatic Dosing System

BRFS automatic dosing System is the fourth generation of automatic dosing device developed by Mining and Metallurgy Science and Technology Group, which is composed of integrated workstation (touch) or touch screen, PLC, drive, actuator and other parts. The actuator of the dosing system adopts special electromagnetic (pneumatic) dosing valve or high precision mechanical diaphragm metering pump, which is suitable for use in harsh environment. The system is powerful, with a variety of extended functions for users to choose, can be widely used in mineral processing, hydrometallurgy, chemical industry, water treatment and other production process control in the addition of liquid medicine; It can be widely used in mineral processing, hydrometallurgy, chemical industry, water treatment and other production process control in the addition of various pharmaceutical liquids. The dosing system further improves the technical performance and reliability, plays a more significant role in stabilizing the process flow, reducing the drug consumption, improving the production index, strengthening the scientific management and so on, and creates favorable conditions for realizing the automation of the flotation process. It has been promoted and applied in many plants around the world.

Type of actuator

Electromagnetic dosing valve

It is required to have a height difference with the operation point and can make the liquid flow into the dosing point.

Pneumatic dosing valve

Suitable for large dosage, scale, layer after dilution, easy to precipitate liquid pharmaceutical addition.

Precision metering pump

Can provide 4-10Bar outlet pressure, high precision dosing, suitable for complex working conditions.



Solenoid valve dosing machine

Dosage range and precision

Electromagnetic dosing valve

5~6500ml/min, dosing precision 4~6%

Pneumatic dosing valve

5000~200000ml/min, dosing precision 4~6%.

Precision metering pump (or Screw pump)

be customized, dosing precision 2%

Dosing points

Electromagnetic dosing valve

Expanded in multiples of 8, can be selected according to user requirements (up to 256 points).

Precision metering pump (or Screw pump)

It can be freely expanded according to actual needs.

Agent type

Foaming agent, collector, adjusting agent, strong acid, strong alkali, lime milk. And other mineral processing agents.

HIM

All-in-one computer

touch screen

Communication Interface

Profibus-DP

Ethernet

Modbus



Dosing pump machine

