# 恒流计量泵系统

FSH-CF系列是广州飞升白主研发设计,全新推出的的高效恒流计量泵。该系统由1个带彩色触摸屏的控制器以及无脉冲恒 流计量型体组成。FSH-CF系列集高效率、高精度、高稳定性、全数校于一体、采用微米级的加工精度技术、使其始终保持高精 度注波特性。在高效率流体输送方面,能及挥其最大功效。FSH-CF系列恒流泵运用于各种全自动注液灌装、无人化生产车间, 广泛应用干燥电池、化工、医药、食品等行业。

## 工作原理:

为了使排出液体总量保持恒定,FSH-CF恒流泵采用专门设计的特殊恒流驱 动装置。通过高效精准驱动、完成吸液与排液动作。该计量聚系统采用微米级 高精度加工技术、使得系统的注波精度可达0.3%或更好。



#### 系统特点:

- 高效率、可达40ml/s
- 天跡动,无卡草,无泄漏
- 海遊打下、海洋2MPa
- 部籍度、電知籍度高法0.5%成果好
- ・講讯接口: PLC I/O: RS232: Ethernet
- · 驱动方式: 闭环驱动
- 使用双维护部件



#### 典型应用: 锂电池电解液注油 鬼的行业注油灌禁

化工计划建装 化妆品谱等 金瓜汤加利斯基础



# FSH-CF Series

# Constant Flow Metering Pump System

FSH-CF series is the latest pulse free high efficiency constant flow metering pump system developed by Guangzhou Ascend. The system consists of a digital controller with color touch screen interface and a pulse free constant flow pump body. FSH-CF series is a high efficiency, high precision, high reliability digital control system based on micro-meter precision machining technology. The system maintains high precision dispensing with maximum injection efficiency. FSH-CF series pump system is a perfect solution for automatic injection and filling lines as well as unmanned automatic factories. The system can be widely used in lithium battery electrolyte injection, chemical dispensing, pharmaceutical drug dispensing, liquid food dispensing, etc.

### **Working Principle:**

### Special Constant Flow Driving Technology:

In order to maintain constant fluid flow from the system. FSH-CH pump uses a custom designed constant flow mechanism device. The motor drives the device to complete fluid inlet and outlet dispensing cycle. The pump uses micro-meter high precision machining technology to ensure its system's dispensing accuracy of 0.3% or better.

#### System Features:

- · High efficiency. Up to 40ml/s.
- · Pulse free. No pump jamming or leaking
- · High pressure. Up to 2MPa.
- · High precision, 0.5% or better, · Communication: PLC I/O: RS232; Ethernet
- · Drive: Step motor with closed loop control
- · Intuitive and easy to use. · Option of explosion proof version.

# Typical Applications:

Lithium battery electrolyte injection Pharmaceutical drug filling Chemical fluid filling Cosmetics fluid filling

Food and beverage additions



# FSH-CF系列

# 恒流计量泵系统

FSH-CF Series Constant Flow Metering Pump System





### 规格型号定义 Specifications:



D- - - 单通道(Single channel) 22- - - 陶瓷柱塞直径22mm(Piston diameter=22mm)

30--- 陶瓷柱塞直径30mm(Piston diameter=30mm)

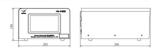
FSH-CF- - - 控制系统型号(Controller model)

### 技术绘数 Technical Parameters.

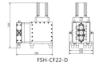
토목 Model	FSH-CF22-D	FSH-CF30-D	
性審直径 Plunger diameter	22	30	
最大流量 Maximum flow rate	30ml/s	50ml/s	
重复精度 Accuracy	±0.5%		
通讯接口 Communication port	I/O , Ethernet/RS232		
接触液体材料 Materials in contact with fluid	316不誘铜 特氟龙 陶瓷 (特殊氧化铊/氰化铝 ) 316 Stainless Steel Teffon Ceramic(Special Alumina/Zirconia)		
电源电压,频率 Power supply voltage, frequency.	AC100-240V, 50/60HZ		
功率 Power	800W		
真空注液 Vacuum injection	真空注液阀 (可定制) Vacuum injection valve(customized)		



#### 控制器的安装尺寸图 Installation Dimensions of Controller(in mm)



# 泵的安装尺寸图 Installation Dimensions of Pump(in mm):







FSH-CF30-D

#### 管道配置 **Tubing Configuration:**

<b>多数</b> Parameter configuration	連載(ml/s) Flow rate		
	5-20	20-40	
請機模集(mm) Inlet fitting	÷10	+10	+12
出資提集(mm) Outlet fitting	+8	÷10	÷10
遊漁管内径(mm) Inlet tubing ID	8	8	9
出液管内径(mm) Outlet tubing ID	6		8
注源针头内径(mm) Needle ID	2~4	2-4	2-4
100 007 1			

### 接头 Fitting:



# 赞道材质平田特集龙材料

进出液管道长度不超过3米

出液管道场程不超过1.5米。 针头与泵头高度差不超过1米。

领头位置高于锗液镍位置、高度差小于1米。

Tubing material shall be Teflon material. Length of inlet & outlet tubing should not exceed 3 meters

Outlet tubing's highest point should not exceed 1.5 meters above pump Height difference between dispensing needle and pump should not exceed 1 meter. Pump should be placed higher than fluid tank. Height difference < 1M.