



閉迴路空氣流量控制器 1000 sL/min

Closed-Loop Air Flow Controller 1000 sL/min

FC1500AKMF1500



產品特色 Features

- ◆ 輕巧易安裝
Compact
- ◆ 高精度
High Precision
- ◆ 高靈敏度
High Sensitivity
- ◆ 高解析度
High Resolution

產業應用 Applications

- ◆ 半導體設備
Semiconductor equipment
- ◆ 冷卻機器
Cooling Machines
- ◆ 動態流量控制
Dynamic Flow Rate Control

產品敘述 Product Description

FC1500AKMF1000 系列由流量比例控制閥 FC1500 和 MEMS 氣體流量計組成。FC1500 是一款由微步步進馬達驅動的高度精度的針閥。調節比可達 400:1，具有高精準度、重複性、遲滯性等特性。FC 系列比例閥適用於和空氣、水和油，密封圈材質有 Viton 或 FFKM 可供選擇，本體材質為鋁合金或不銹鋼。

MEMS 氣體流量計具有反應時間快、精度高...等特點。它與空氣相容並進行校準，具有異常穩定的輸出訊號和低功耗。此氣體流量計與 FC 系列流量比例控制閥的組合提供了高解析度及大流量控制的優異性能。

我們所有的產品都有 CE、SGS、RoHS 認證和 ISO13485 品質認證。

The FC1500AKMF1000 series consist of a proportional flow control valve FC1500 and a MEMS gas flow meter. FC1500 is a highly refined needle valve driven by a micro step stepper motor. Turndown ratio can reach up to 400: 1, with high accuracy, repeatability, and hysteresis. The FC valve is compatible with air, water, and oil. It has a selection of Viton or FFKM O-ring, and body material can be aluminum or stainless steel.

The MEMS gas flow meter features quick response time and high accuracy. It is compatible and calibrated with air. It has exceptional stable output signal and low power consumption. The combination of flow meter with FC valve provides a outstanding performance on high flow control with high resolution.

All our products have CE, SGS, RoHS certification with ISO13485 quality system.



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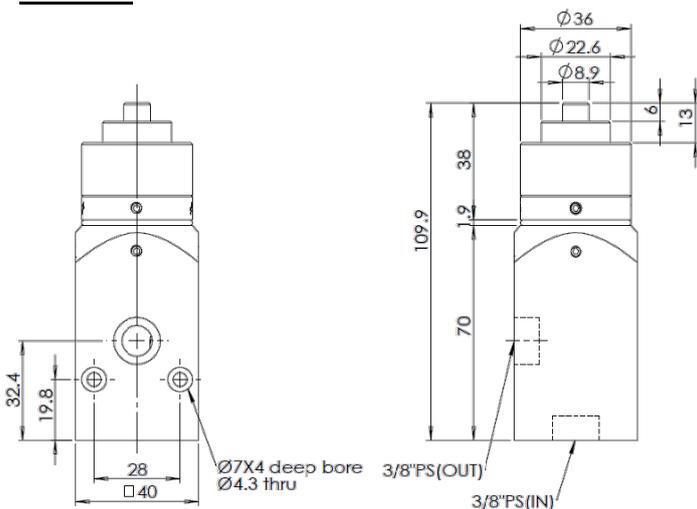
FC1500AKMF1500

產品規格 Specifications

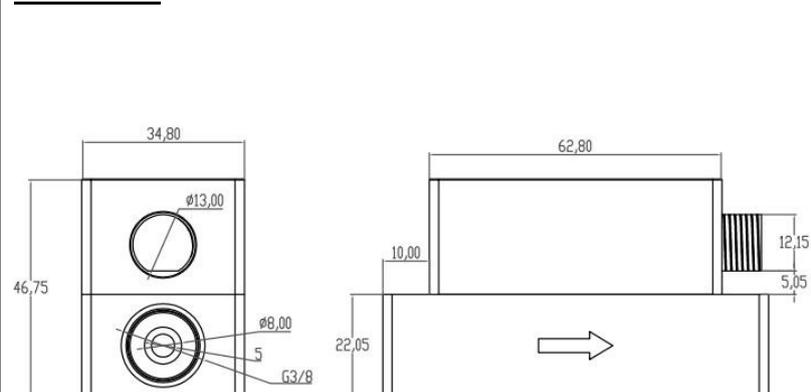
型號 Type	FC1500AKMF
流量範圍 Flow Range(SLPM)	0-25 / 0-50 / 0-250 / 0-1000
最大耐壓 Max. Pressure	5 bar (72.5 psig)
控制訊號號 Input Signal	0-10V / 0-5V / 4-20mA / RS485
監控輸出 Monitor Output	1-5V / RS485
工作電源 Supply Power(VDc)	24 VDc(12W)
介質 Medium	潔淨壓縮空氣或搭配 5 μ m 過濾器 Clean compressed air or with 5 μ m filter
精度 Accuracy	\pm 1.5% F.S
重覆精度 Repeatability	0.025%
閥分辨率 Valve Resolution	0.5 L/min *入氣壓力 1bar(14.5psi) inlet pressure 1bar(14.5psi)
量程比 Turndown Ratio	100:1
顯示單位 Display	SLPM(Instant Flow) / SL(Accum Flow)
工作溫度 Temp.	10~65 $^{\circ}$ C (Fluid)
	-25~85 $^{\circ}$ C (Ambient)
口徑 Port	G3/8"
底座材質 Manifold Material	鋁合金 Aluminum
接液材質 Wetted Materials	鋁合金、氟橡膠 Aluminum, Viton
電器連接 Electrical Connection	EDZ1550/4
輸出流量標準 Calibration	Air, 20 $^{\circ}$ C, 101.325kPa

外觀尺寸 Overall Dimension

FC1500



KMF1500



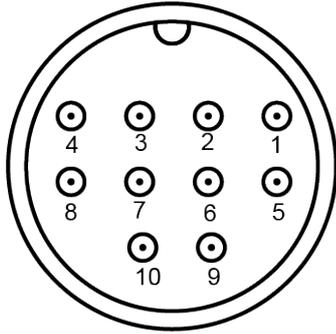


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接線方式 Wiring



編號 No.	顏色 Color	功能 Function
1	紅色 Red	電源(+) 24V DC Power (+)
2	黑色 Black	電源(-) 24V DC Power (-) 類比訊號(-) Command(-)
3	藍色 Blue	RS485(+)
4	綠色 Green	RS485(-)
5	黃色 Yellow	監控輸出 Output monitor 1-5V out
7	白 White	類比訊號(+) Command(+) 0-5V Command(+) 0-10V
8	灰 Gray	類比訊號(+) Command(+) 4-20mA