PSV

PSV900 比例電磁閥
PSV900 Proportional Solenoid Valve

DA-E

產品外觀 PRODUCT APPEARANCE

MADE IN TAIWAN

- 標準化規格，嚴格品質管控，確保產品穩定可靠
  Standardized Specifications, Strict Quality Control, Ensuring Consistent and Reliable Performance

訂購代號 ORDER NO.

PSV900 - 06 - B - DC24V

系列
PSV900

尺寸	
06	3/4

材質	
B	BRASS
S	SUS316L

電壓
DC24V

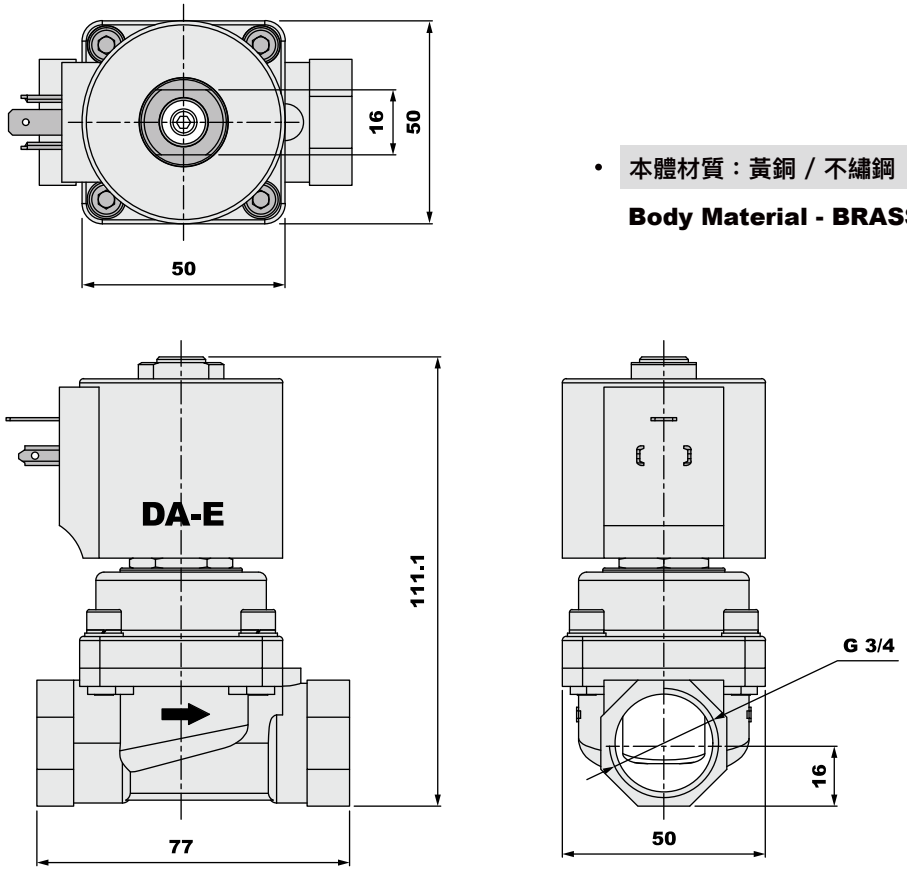
特點 FEATURES

- 採先導式結構設計，可對應大流量控制需求
  Pilot-operated design for high-flow control applications.
- 性能穩定、反應快速，可提供良好的動態控制性能
  Stable performance and fast response provide excellent dynamic control.
- 在工作範圍內具良好的重複精度，有助於提升系統控制精度與穩定性
  High repeatability throughout the operating range helps improve system control accuracy and stability.
- 可依輸入訊號連續調整流量，適合大流量液體的連續比例控制
  Provides continuous flow adjustment according to the input signal, making it suitable for proportional control of high liquid flow rates.
- 適合需要大流量、高重複精度及連續調節的流體控制系統
  Suitable for fluid control systems requiring high flow capacity, high repeatability, and continuous regulation.

適用範圍 APPLICATIONS

- 適用於大流量液體控制、壓力與流量調節，以及各類工業設備與自動化系統，可滿足需要連續調節及穩定控制的大流量應用需求
  Suitable for high-flow liquid control, pressure and flow regulation, as well as various industrial equipment and automation systems requiring continuous regulation and stable high-flow control.

尺寸圖 DIMENSION



- 本體材質：黃銅 / 不繡鋼

  Body Material - BRASS / SUS304

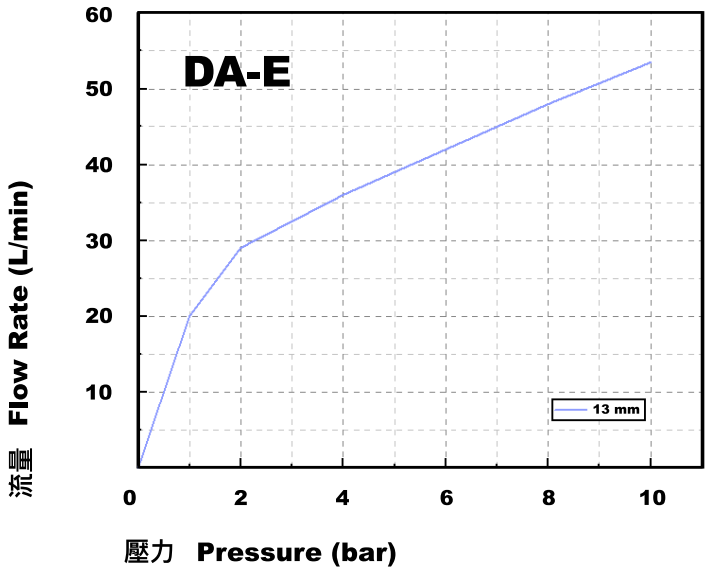
規格表 SPECIFICATIONS

型 號 Type	口徑 Port Size	通徑 Orifice Diameter	密封材質 Seal Material	線圈 Coil	使用介質 Fluid	最大工作壓力差 Max. Pressure Differential	介質溫度 Fluid Temperature
PSV900	G 3/4	13 mm	氟橡膠 FKM	SB61B	中性氣體 / 液體 Neutral Gas / Liquid	10 bar	-10~90°C

型 號 Type	電氣連接方式 Electrical Connection	外殼防護等級 Enclosure Protection	額定電壓 Rated Voltage	PWM 頻率 PWM Frequency	洩漏量 Leakage Rate	遲滯 Hysteresis
PSV900	插針式 Pin Type	IP65	DC 24 V	1200~2000 Hz	≤ 0.5 SCCM	≤ 20% Max.

線圈 Coil

型 號 TYPE	電阻 Resistance	電壓 Voltage	最大功率 Max. Power
SE71B-DC12V-21W	44±3% Ω	DC24 V	13 W

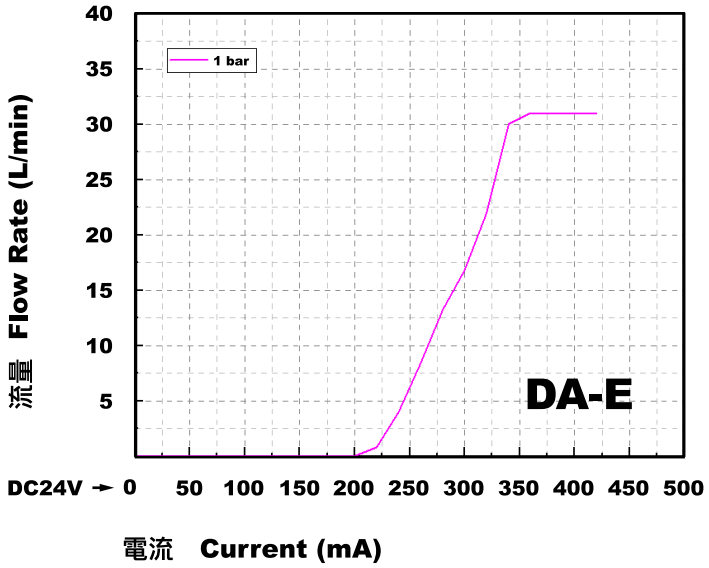


PSV900-SB61B **Fluid - Water**

於 25°C 環境溫度下測試

Tested at an ambient temperature of 25°C.

壓力 **Pressure** **1**

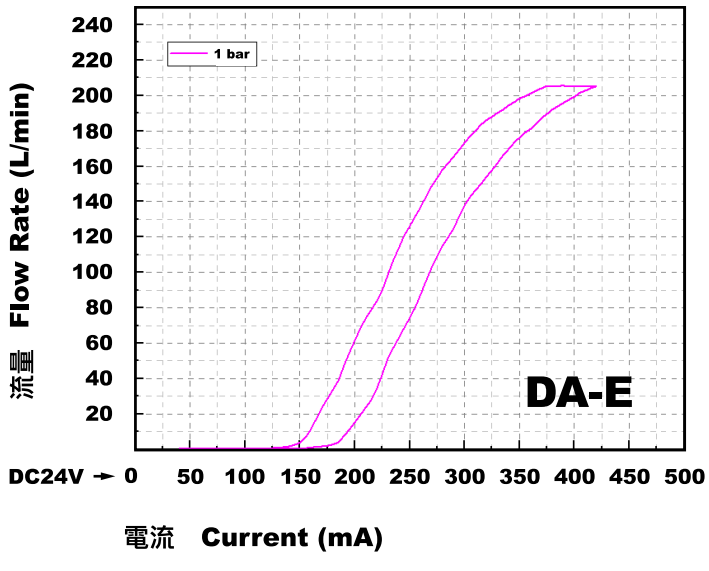


PSV900-13mm **Fluid - Water**

於 25°C 環境溫度下測試

Tested at an ambient temperature of 25°C.

電流 **Current** **2**



PSV900-13mm **Fluid - Air**

於 25°C 環境溫度下測試

Tested at an ambient temperature of 25°C.

電流 **Current** **3**

注意事項 PRECAUTIONS

- 使用前請確認流體種類、工作壓力、壓差及環境溫度均符合產品規格，避免超出額定範圍而影響閥體性能及使用壽命
  Before operation, ensure that the fluid type, operating pressure, pressure differential, and ambient temperature are within the specified limits to prevent performance degradation and reduced service life.
- 請使用符合產品規格的電源及比例閥驅動器，並確認輸出電流與控制參數設定正確，避免線圈過熱或控制異常
  Use a compatible power supply and proportional valve driver. Ensure that the output current and control parameters are correctly configured to prevent coil overheating or control malfunctions.
- 安裝時請依照閥體標示的流向正確配管，避免過度鎖緊接頭或使閥體承受額外應力，以確保正常運作
  Follow the flow direction indicated on the valve body during installation. Avoid overtightening fittings or applying excessive mechanical stress to ensure proper operation. When different pressure or vacuum levels are used, consider possible pressure interference between circuits.
- 比例電磁閥運作時線圈可能產生高溫，應確保適當散熱，並避免接觸高溫表面或安裝於超出額定環境溫度的場所
  The coil may generate heat during operation. Ensure adequate heat dissipation and avoid contact with hot surfaces or installation in environments exceeding the rated temperature.
- 定期檢查閥體、配管及電氣連接狀況。進行拆卸或維修前，務必切斷電源並釋放系統壓力，以確保操作安全
  Regularly inspect the valve body, piping, and electrical connections. Always disconnect the power supply and release system pressure before disassembly or maintenance to ensure safe operation.
- 比例電磁閥的流量控制特性可能受到壓差、流體溫度及驅動電流影響，建議依實際使用條件進行測試與校正，以確保控制穩定性
  The flow control characteristics may be affected by pressure differential, fluid temperature, and drive current. Testing and calibration under actual operating conditions are recommended to ensure stable control performance.