



高速壓力比例閥

High Speed Proportional Regulator

QKL-HS4、HS5

產品特色 Features



QKL-HS 系列是一款三通電子壓力比例閥。它係由電磁閥、壓力傳感器、精細研磨的閥芯和及電子迴路控制所組成。該系列具有流量大、壓力切換時間極快、精度高、與氧氣和氫氣兼容的特點。使用我們自行開發的內部軟體，可以自定義控制參數，允許用戶建立獨特的壓力曲線，且它可用於模擬和數字命令信號。

QKL-HS5 is 3-way electronic pressure regulators. It consists of proportional solenoid, pressure transducer, intelligent electronics, and a refined spool. It features high flow rate, extremely fast pressure switching time, high accuracy, and compatible with oxygen and hydrogen gas. Using the powerful in-house software, the control parameter can be customized that allows user to build unique pressure profile. It is available with analogue and digital command signal.

產品規格 Specifications

系列 Type	QKL-HS4		QKL-HS5	
閥門類型 Valve Type	3 口 2 位直動式驅動 3/2 Directly actuated seating valve			
材料 Materials	本體黃銅或鋁合金、軸心不鏽鋼 Body brass or Aluminum, Mandrel stainless steel			
密封圈 Seals	氟橡膠 FKM			
接液材質 Wetted Materials	鋁合金、黃銅、不鏽鋼、氟橡膠(氧氣相容)、全氟橡膠 Aluminum, Brass, Stainless steel, Viton(oxygen gas compatible), FFKM			
口徑 Port	G1"		G 1"1/2	
入氣壓力 Input Pressure(bar)	輸出壓力的 1.2 倍 1.2 Times Output Pressure			
輸出壓力 Output Pressure(bar)	*0 – 50			
工作電源 Power Supply	DC24V ±10% (≤20W)			
輸入訊號 Input Signal	0-10V / 4-20mA/ RS485			
監控信號 Monitor Output	0-10V / 4-20mA / RS485			
流量 Flow Rate	70,000 L/min@40bar		200,000 L/min@40bar	
介質 Medium	無害氣體、一般空氣、無油氣體、無冷凝物氣體、 氫氣、氧氣(通過絕熱壓縮測試) Harmless gases, air, free of oil, condensate-free, hydrogen gas, oxygen(adiabatic compressor test performed)			
建議過濾器 Recommended Filter	50 μm			
防護等級 IP Degree of protection	IP 40			
環境溫度 Ambient Temperature	0 – 40 °C	遲滯 Hysteresis		< 0.5 % FS
介質溫度 Temperature of medium	0 – 40 °C	最小移動量 Response Sensitivity		< 0.5 % FS
操作溫度 Operating Temperature	0 – 50 °C	線性 Linearity		< 0.5 % FS
溫度飄移 Temperature Drift	< 1 % / 10K	重覆性 Repeatability		< 0.5 % FS
長期飄移 Long-term Drift	< 1 % FS/年 Year			

*如需訂製特別壓力範圍，請洽詢本公司 Please contact us for customized pressure range.