



压力比例阀

Proportional Pressure Regulator

QKL-B1N



产品特点 Features

- ◆ 体积小 Compact
- ◆ 高精度 High Precision
- ◆ 高灵敏度 High Sensitivity

产业应用 Applications

- ◆ 泄漏测试 Leak Tester
- ◆ 张力控制 Tension Control
- ◆ 引导压力控制 Pilot Pressure Control

QKL-B1N 延续 QKL-B1T 系列比例阀的高性能及稳定特性，但在结构设计上大幅进化。此系列本体体积缩小至原先的一半，不仅更轻巧、更容易整合于设备中，也大幅提升安装弹性，特别适用于空间受限、追求高密度配置或设备模块化的应用环境。在保留闭回路控制架构与双电磁阀调节机制的前提下，QKL-B1N 依然能提供精准、快速且稳定的压力控制，同时输入讯号及监控讯号皆提供 0-10VDC(电压)、4-20mA(电流) 及 RS485 ModBus 通讯的选择。

QKL-B1N inherits the high performance and stability of the QKL-B1T proportional valve series, but has been greatly improved in structural design. The body size of this series has been reduced to half of the original, making it lighter, easier to integrate into equipment, and significantly enhancing installation flexibility. It is especially suitable for applications with limited space, high-density layout requirements, or modular equipment configurations.

While retaining the closed-loop control architecture and dual-solenoid regulation mechanism, QKL-B1N continues to provide precise, fast, and stable pressure control. Both input signals and monitor signals offer options of 0-10VDC (voltage), 4-20mA (current), and RS485 ModBus.

型号选择 Ordering Code

QKL - □ - □ - □

系列 Type

B1N	内部回授	M5*0.8
	Internal Feedback	

输入讯号 Input Signal

*E	0 - 10 V
A	4 - 20 mA
R	RS485 Modbus

监控讯号 Monitor Output

C	0 - 10 V
A	4 - 20 mA
R	RS485 Modbus

*若控制讯号选择 0-10V，请留意最小的驱动电流为 3mA。
For Command Signal type 0-10V, the minimum driving current is 3mA.



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产品规格 Specifications

Type	QKL-B1N
输出压力Output Range	7 bar(102psi)
最大入气压力Supply Pressure Max	8 bar(116psi)
输入讯号Input Signal	0-10V / 4-20mA / RS485
监控信号Monitor Output	0-10V / 4-20mA / RS485
工作电源Power Supply	DC24V (≤5W)
介质 Medium	Clean compressed air or with 5 μm filter
重复精度Repeatability	±0.1% F.S.
线性度 Linearity	±0.5% F.S.
迟滞Hysteresis	±0.5% F.S.
综合精度 Accuracy	±0.5% F.S.
灵敏度 Sensitive	0.1bar
流量 Flow Rate	12L/min @ 7bar
使用温度范围Temp. Range(Operating)	0 ~ 70 °C (32 ~ 158 °F)
口径 Port Size	M5*0.8
底座材质 Manifold Material	Aluminum
接液材质 Wetted Materials	Aluminum, Stainless steel, Brass, FKM
电器连接 Electrical Connection	M12 Connector(2m)
防护等级 Ingress Protection	IP 65