



Proportional Pressure Regulator

QKL-B1N



Features

- ◆ Compact
- ◆ High Precision
- ◆ High Sensitivity

Applications

- ◆ Leak Tester
- ◆ Tension Control
- ◆ Pilot Pressure Control

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.

Ordering Code

QKL – □ – □ – □

Type

B1N	Internal Feedback	M5*0.8
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Input Signal

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

Monitor Output

C	0 – 10 V
A	4 – 20 mA
R	RS485 Modbus

*For Command Signal type 0-10V, the minimum driving current is 3mA.

Specifications

Type	QKL-B1N		
Output Range	7 bar(102psi)	Supply Pressure Max	8 bar(116psi)
Input Signal	0-10V / 4-20mA / RS485	Monitor Output	0-10V / 4-20mA / RS485
Power Supply	DC24V (≤5W)	Medium	Clean compressed air or with 5 μm filter
Repeatability	±0.1% F.S.	Flow Rate	12L/min @ 7bar
Linearity	±0.5% F.S.	Temp. Range(Operating)	0 ~ 70 °C (32 ~ 158 °F)
Hysteresis	±0.5% F.S.	Port Size	M5*0.8
Accuracy	±0.5% F.S.	Wetted Materials	Aluminum, Stainless steel, Brass, FKM
Sensitive	0.1bar	Manifold Material	Aluminum
Electrical Connection	M12 Connector(2m)	Ingress Protection	IP 65