











#### **Features**

- ◆ Compact
- ♦ High Precision
- ♦ High Sensitivity
- ◆ Wide Pressure Range

### **Industrial application**

- Laser Cutter
- ◆ Leak Tester
- ◆ Tension Control
- ◆ PET bottle molding machine
- ◆ Multi-Stage Pressure Control

### **Product Description**

This series is a complete closed loop servo system consisting of two solenoid valves, an internal pressure transducer, and electronic controls. Based on analog signal, the pressure is controlled by two solenoid valves to maintain precise pressure; one valve functions as inlet control, the other as exhaust. The pressure output is measured by an internal or an external feedback pressure transducer that provides a feedback signal to the electronic controls. The regulator is suitable for industries that require precise pressure changes at any time and monitor pressure values.

Available with 3 selections of input signal: 0-10VDC, 4-20mA, or RS485 Modbus. Monitor signal can be chosen from 0-10V, or 4-20mA. Our special design offers high pressure and high flow capability electronic pressure regulator in uni-body design.

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

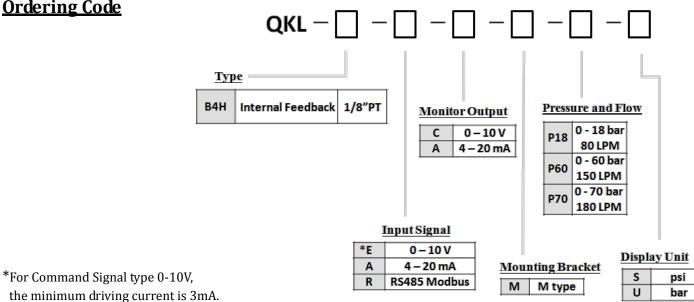


## QKL-B4H

## **Specifications**

Туре	B4H-P18(261psi)	B4H-P60(870psi)	B4H-P70(1015psi)	
Input Signal	0-10V / 4-20mA / RS485			
Output Range	0-18bar (260 psi)	0-60bar (870 psi)	0-70bar(1015 psi)	
Supply Pressure Max	20bar (290 psi)	65bar (942 psi)	74bar(1073 psi)	
Monitor Output	0-10V / 4-20mA			
Supply	DC24V (≦14W)			
Response	4\$			
Medium	Clean compressed air or with 5 μm filter			
Repeatability	±0.1% F.S.	±0.3% F.S.	±0.3% F.S.	
Hysteresis	±0.3% F.S.	±0.3% F.S.	±0.3% F.S.	
Linearity	±0.1% F.S.	±0.1% F.S.	±0.1% F.S.	
Accuracy	±0.2% F.S.	±0.3% F.S.	±0.3% F.S.	
Sensitive	0.1bar	0.5bar	0.5bar	
Flow Rate	800L/min @ 60bar	150L/min @ 60bar	180L/min @ 70bar	
Temp. Range(Operating)	-196 ~ 70 °C ( -320 ~ -158 °F)			
Port Size	1/8"PT			
Manifold Material	鋁合金 Aluminum			
Electrical Connection	M12 Connector(2m)			
Ingress Protection	IP 65			
Weight	800 g			

### Ordering Code

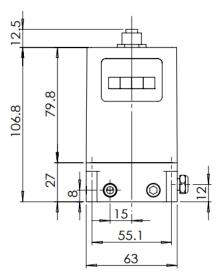


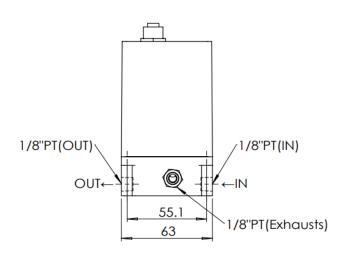


# QKL-B4H

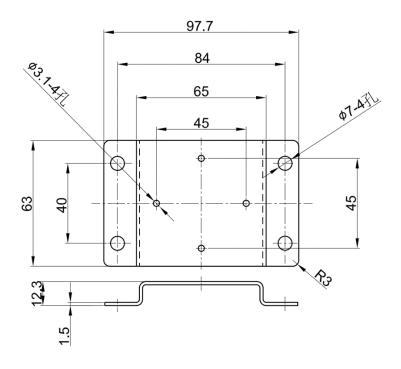
### **Overall Dimension**

### ♦ QKL-B4H





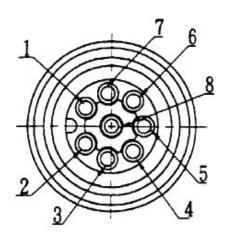
### ♦ Bracket M Type





# QKL-B4H

## **Wiring Description**



The wiring diagram shows from top view

No.	Color	Function
1	Dlue	24V DC Power (-)
	Blue	Output monitor (-)
2	Brown	24V DC Power (+)
3	Black	Monitor output (+)
4	White	0-10 V Command (+)
		4-20 mA Command (+)
5	Gray	RS485(D-)
6	-	-
7	purple	Command (-)
8	Red	RS485(D+)



Warning: Do not rotate the connection socket when connected, to avoid damage to the internal sensor.





### **Product Precautions**



#### Installation

The valve can be mounted in any position. For very low pressure control, works best when mounted upright. And Ensure a minimum closed end volume of 40c.c. to allow proper functioning.



### **Preparation Before Piping**

Before piping is connected, it should be thoroughly blown out with air (flushing) or washed to remove chips, cutting oil and other debris from inside the pipe.

#### **Wrapping of Sealant Tape**

When screwing together pipes and fittings, etc., be certain that chips from the pipe threads and sealing material do not get inside the piping. When sealant tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.



### **Operating Environment**

- 1. Do not operate in locations having an atmosphere of corrosive gases, chemicals, sea water, or where there will be contact with the same.
- 2. In locations where the body is exposed to water, steam, dust, etc., there is a possibility that moisture or dust could enter the body through the EXH port, solenoid valve EXH port and/or built-in regulator EXH port, thereby causing problems.
- 3. In locations which receive direct sunlight, provide a protective cover etc.
- 4. In locations near heat sources, block off any radiated heat.
- 5. Employ suitable protective measures in locations where there is contact with water droplets, oil or welding spatter, etc.



#### **Air Supply**

- 1. Compressed air, nitrogen, oxygen or argon can be used as a fluid.
- 2. Do not use compressed air which includes chemicals, synthetic oils containing organic solvents, salt, or corrosive gases, etc., as this can cause damage or malfunction.
- 3. If oxygen is used as the fluid, it can lead to serious and unforeseen risks. However, it is possible to manage and control the risk of hazards and economic loss. In order to use the product safely, it should only be handled by personnel with appropriate knowledge, with support from a suitably qualified specialist.
- 4. Oxygen gas increases the susceptibility of substances to burning; Oxygen gas can be ignited by frictional heat and static electricity. If oxygen is ignited, the metal and seal materials burn. Therefore, flush the piping thoroughly and mount a suitable filter to prevent foreign matter such as metal powder and dust from entering the product.
- 5. Take safety measures by installing safety devices (e.g. a circuit that stops the supply of oxygen gas) to prevent fire and explosion in the event of failure, taking flameproof safety standards into consideration.
- 6. Since there are some exhaust ports on the product, connect the piping in order to exhaust oxygen. Do not block the exhaust port.



#### Warranty

KaoLu Enterprise Co., Ltd. products are warranted to the original purchaser only against defects in material or workmanship for 6 months from the date of manufacture. The extent of KaoLu's liability under this warranty is limited to repair or replacement of the defective unit at KaoLu's option. KaoLu shall have no liability under this warranty where improper installation or filtration occurred.