Electronic Vacuum Regulator

QKL-B3V

The electronic vacuum regulator is a closed loop design, consisting of 2 solenoid valves, one pressure transducer and an electronic board that performs PID closed loop control. According to the input electronic signal, one valve opens up the vacuum inlet, and the other valve acts as vacuum breaker. Whilst increasing the vacuum level, the inlet valve acts upon the internal piston and allows air to be withdrawn. The internal pressure transducer senses the vacuum level and provides feedback to the electronic board which in turn controls the action of two valves until the target vacuum level is reached.

KaoLu's vacuum pressure regulator receives input signal of 0-10V, 4-20mA or RS485-modbus.

Specifications

Type	QKL-B3V		
Output Range	0~ -100 kpa	Repeatability	±0.3% F.S.
Input Signal	0-10V / 4-20mA	Hysteresis	±0.3% F.S.
Monitor Output	0-10V / 4-20mA	Linearity	±0.5% F.S.
Power Supply	DC24V (≦4W)	Accuracy	±0.5% F.S.
Response	0.8S	Medium	Air、inert gas
Temp. Range(Operating)	0-70℃ (32-158 ºF)	Flow Rate	120L/min
Port Size	G1/4"	Electrical Connection	M12 Connector (2m)
Life Cycle	Over 1 Billion Times	Ingress Protection	IP65
Weight	550 g	Manifold Material	Aluminum

Ordering Code

QKL – □ – □ – □ – □ – □

Type

B3V	Internal Feedback	1/4"PT

Monitor Output

C	0 – 10 V
A	4 – 20 mA

Display Unit

S	Kpa
U	mmHg

Input Signal

*E	0 – 10 V
A	4 – 20 mA

Mounting Bracket

M	M type
L	L type

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

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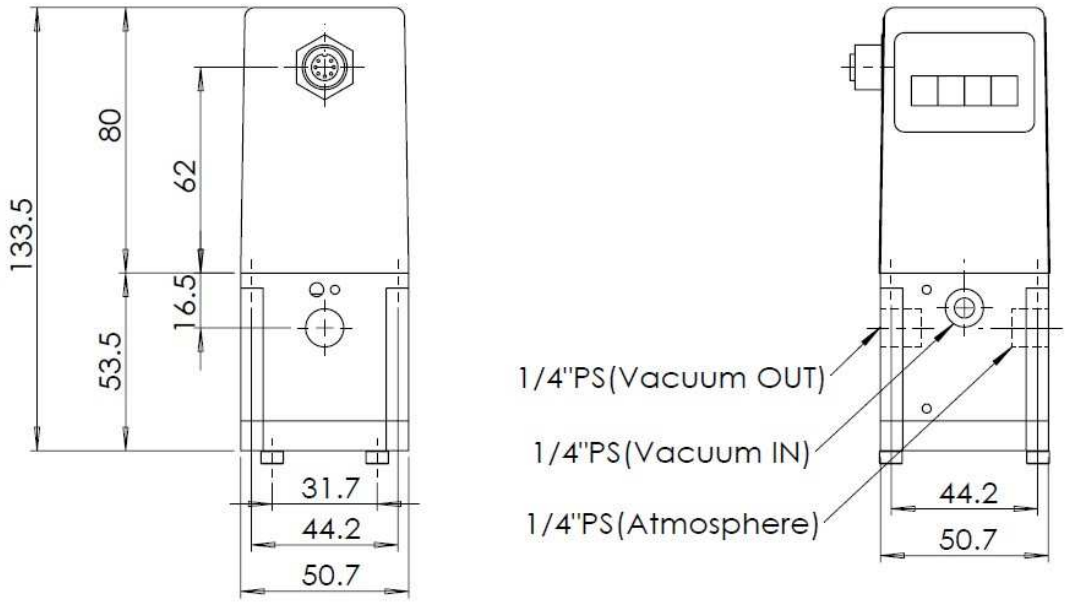
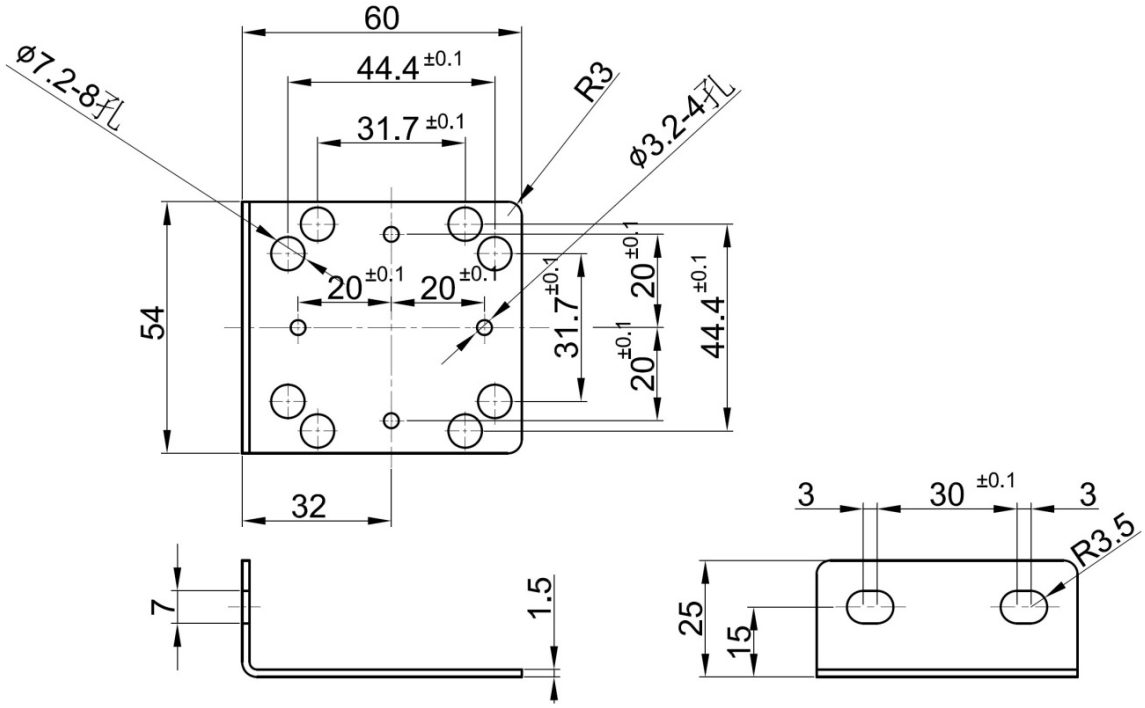
KAO LU

Overall Dimension



Bracket L Type



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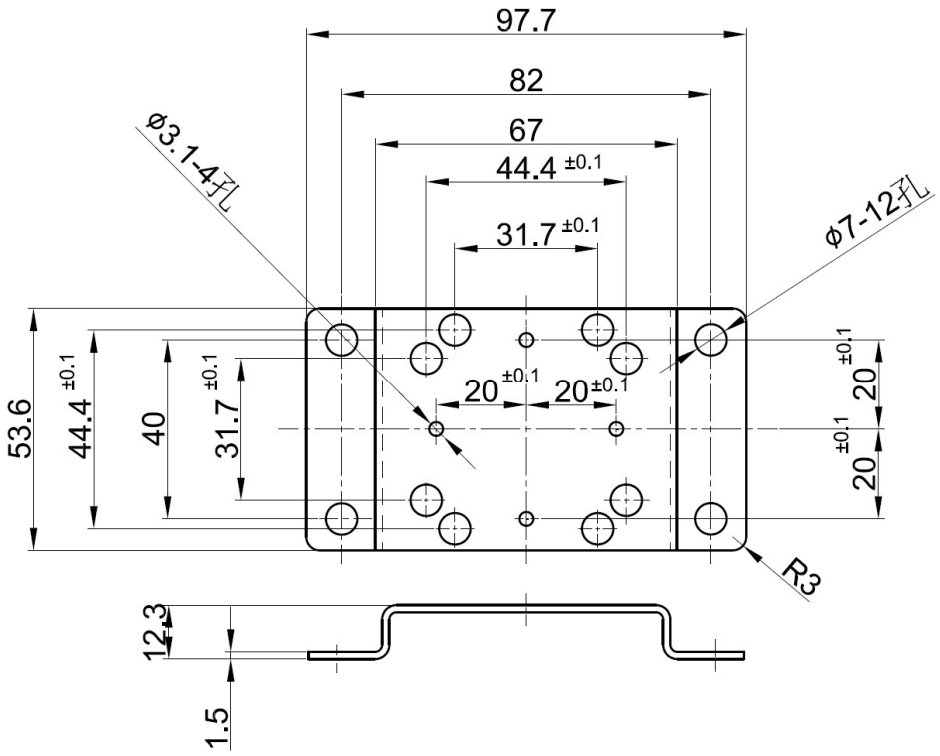
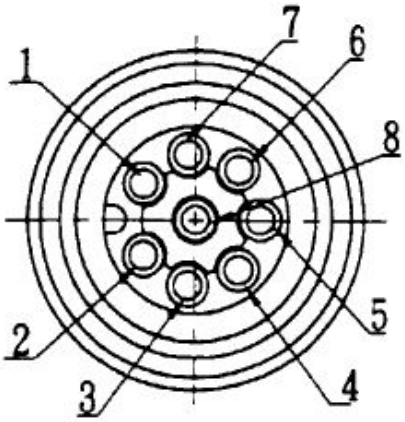
Bracket M Type



Wiring Description



※The wiring diagram shows from top view.

No.	Color	Function
1	Blue	24V DC Power (-) Command (-) Output monitor (-)
2	Brown	24V DC Power (+)
3	Black	Monitor output (+)
4	White	0-5 V Command (+) 0-10 V Command (+) 4-20 mA Command (+)

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

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