



Electric Control Valve for Water and Steam

Overview

This electric control valve has been found to be suitable for water and steam in a large number of our practices. If you need an electric control valve for thermal oil, you can choose another electric control valve from us.

The electric control valve consists of a valve body and an actuator. The specific parameters of these two parts are as follows



A) The actuator model: Intelligent LY6000A

JK-LY6000A can accept 0~10V or 4~20mA DC control signal input and provide proportional control, can have output feedback 0~10V or 4~20mA.

How does the actuator work?

The driver in the actuator is driven by a reversible synchronous motor. The valve stem goes up or down to open and close the valve. When the valve is fully opened or fully closed, a reaction force is generated on the driver, so that the micro switch inside the driver is powered off, and the driver stop working. When the driver receives the control signal, it can make the valve open to a certain degree with the increase of the signal, and it will automatically close the valve when there is no signal (under the condition of continuous power supply).



The driver can make the motor rotate clockwise or counterclockwise when receiving the signal from the proportional controller.

Installation procedure:

1. Remove the actuator slider, and then loosen the buckle connecting the valve stem to prepare for assembly.
2. Put the prepared actuator on the boss of the valve body so that the main shaft of the driver is concentric with the valve stem, and the two ends coincide.
3. Re-lock the actuator buckle and slider. After installation, carefully check whether it is correct, and do not disassemble violently.

Remark:

- ◆ The drive must be protected from water leaks that could damage internal parts and motors.
- ◆ The actuator should not be covered by heat-insulating materials, and should not be placed in direct sunlight.
- ◆ The installation of the actuator should be as vertical as possible to the ground, and the inclination should not exceed 30°. Sufficient space should be left during installation for maintenance purposes.



Actuator parameter

Actuator specification parameter	
Model	LY6000A
Control mode	Proportional control, forward or reverse
Electronic circuit	Power: 24VAC,50/60Hz choose input signal range: 0- 10V DC or 4~20mA DC
Motor type	Bidirectional AC synchronous motor
Parameters of the motor	24VAC±10%,50/60Hz,10VA
Electronic circuit power	2VA
Effectiveness under normal conditions	4000N
Material	stainless steel gear, brass Lower plate of reducer: galvanized steel Bracket: die-casting aluminum alloy Shell: flame retardant ABS engineering plastic
Speed	When the frequency is 50Hz, 4.6 seconds per millimeter, when the frequency is 60Hz, 3.8 seconds per millimeter
Room temperature limit	Running : -5 ~+5 5 °C Storage:-20~+65°C
Max relative humidity	90% no condensation
Connection wire	0.75~1.5mm
Factory setting	Input signal:0~10V
Accessories (all models)	Fastening nut, connecting nut, semicircle snap ring
Net weight	4.3kg

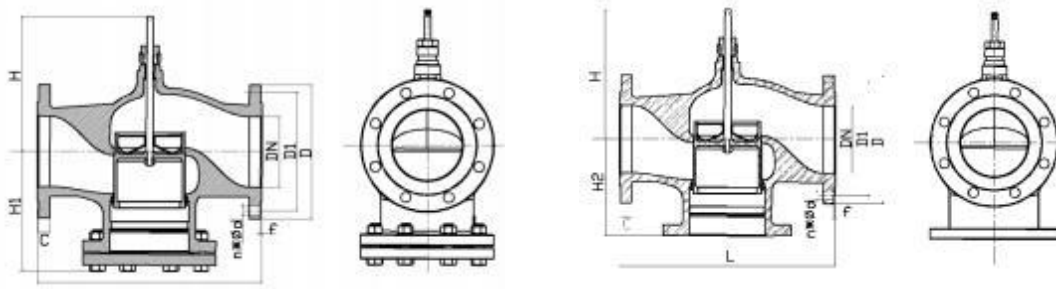
B) The valve body

The valve body has high temperature resistance, stable operation and long service life. It can be widely used in the fields of cooling water, frozen water, high-temperature hot water, saturated steam. It is a regulating valve with good flow characteristics, which can distribute flow reasonably and realize quantitative flow, which can effectively solve the problem of uneven heating and cooling of room temperature exists in heating system engineering.





Valve body parameter



Model	Φ D		Φ D1		n* Φd		f	L	H	H1	H2	
	C	PN16	PN25	PN16	PN25	PN16						PN25
DN15	14	95	95	65	65	4*Φ14	4*Φ14	2	130	157	87	63
DN20	14	105	105	75	75	4*Φ14	4*Φ14	2	140	161	92	68
DN25	14	115	115	85	85	4*Φ14	4*Φ14	2	165	161	100	76
DN32	18	140	140	100	100	4*Φ18	4*Φ18	3	180	165	114	88
DN40	18	150	150	110	110	4*Φ18	4*Φ18	3	200	160	120	94
DN50	20	165	165	125	125	4*Φ18	4*Φ18	3	230	190	137	107
DN65	20	185	185	145	145	4*Φ18	8*Φ18	3	290	209	150	120
DN80	20	200	200	160	160	8*Φ18	8*Φ18	3	310	206	177	147
DN100	22	220	235	180	190	8*Φ18	8*Φ22	3	350	229	185	153
DN125	22	250	270	210	220	8*Φ18	8*Φ26	3	400	268	207	174
DN150	24	285	300	240	250	8*Φ22	8*Φ26	3	480	292	251	215