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BKV Series Motorized Ball Valve (2 Ways and 3 Ways)

Product Description:

BKV series of motorized ball valves are used to control the on/off of the water system in HVAC system, consisting of actuator and valve body. Actuator (driver) adopts synchronous motor driver for its stable performance. Internal limit contacts and energy saving design in valve, can cut off the power when the valve is fully opened or closed. We suggest you use this product together with our thermostats.

Remark : Generally, the default state of valve door is normally closed. If you have any special request, please let us know.



> Technical Data:

◆Working Voltage: AC220V±10%, 50/60Hz (Special-Made: 24VAC)

◆Power Consumption: 4W(only when you open and close the valve)

◆Running Time of Each Action: ≤15S (Valve-On); ≤15S(Valve-Off)

◆Nominal Pressure: 2.5Mpa

◆Applied Medium: Cold or hot water, glycol water liquor (≤50%).

◆Medium Temperature: 2-90°C

◆Grade of Protection: IP54

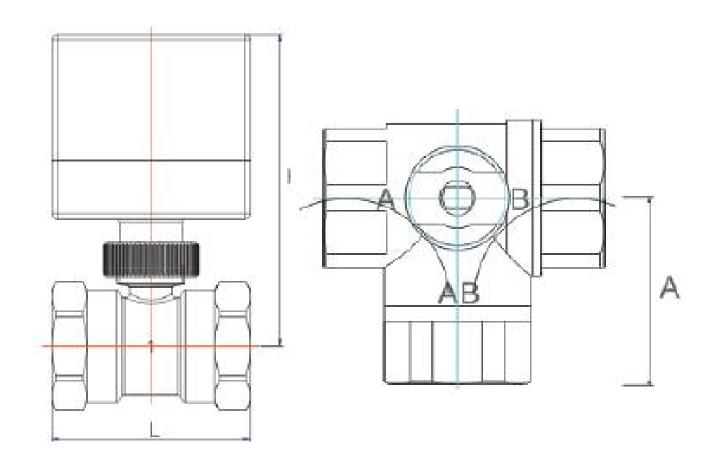
◆Safety Class: II (Double Insulation)

◆ Material of Valve Body: Brass (Surface is plated with nickel)

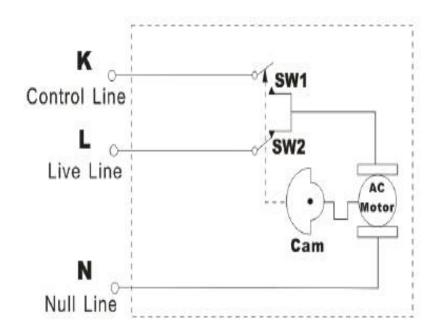
◆ Material of Actuator: Outer Cover: ABS+PC Engineering Plastic

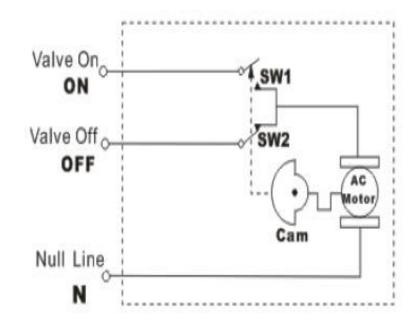


> External Dimension:



Electric Principle Drawing:





When K is connected with L, the valve is opened. When K is disconnected, the valve is closed. When ON is connected with L and OFF is disconnected, the valve is opened. When OFF is connected with L and ON is disconnected, the valve is closed.

3-Way & 1-Control

3-Way & 2-Control

Valve Spec:

Model			Voltage	DN(mm)	Inner Screw Thread(G)	24V(OEM)	
		BKV322-DN15		15	1/2″		
		BKV322-DN20		20	3/4"		
	2-Way	BKV322-DN25	2201/40	25	1"		
3 Wire & 2-Control	Valve 3-Way Valve	BKV322-DN32	230V/AC	32	1+1/2"	\checkmark	
		BKV322-DN40		40	1+3/4"		
		BKV323-DN20	2201//40	20	3/4″		
		BKV323-DN25	230V/AC	25	1"	\checkmark	
	-Control 2-Way Valve	BKV312-DN15		15	1/2"		
		BKV312-DN20		20	3/4"		
3 Wire & 1-Control		BKV312-DN25	230V/AC	25	1"	\checkmark	
		BKV312-DN32		32	1+1/2"		
		BKV312-DN40		40	1+3/4"		

MKV Series Motorized Ball Valve (2 Ways and 3 Ways)

Product Description:

MKV series of motorized ball valves are used to control the on/off of the water system in HVAC system, consisting of actuator and valve body.

Actuator (driver) adopts synchronous motor driver for its stable performance, eliminate water hammer. Internal limit contacts and energy saving design in valve, can cut off the power when the valve is fully opened or closed. We suggest you use this product together with our thermostats.

Remark : Generally, the default state of valve door is normally closed. If you have any special request, please let us know.



Technical Data:

◆Working Voltage: AC220V±10%, 50/60Hz

◆Power Consumption: 6VA(only when you open and close the valve)

◆Running Time of Each Action: 15S (Valve-On); 15S(Valve-Off)

◆Nominal Pressure: 2.5Mpa

◆ Applied Medium: Cold or hot water, low pressure steam

◆Medium Temperature: 1-95°C

◆Motor Type: Synchronous Motor

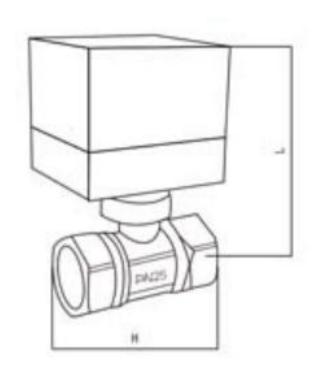
◆Wire Length: 550mm

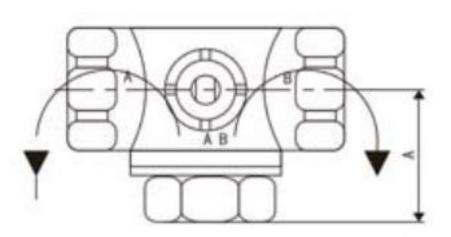
◆Connection Way:Pipe Thread G

◆ Material of Valve stem body and ball: Copper H59



> External Dimension:

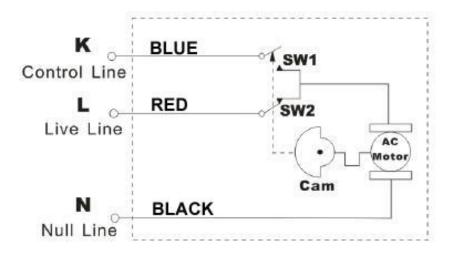


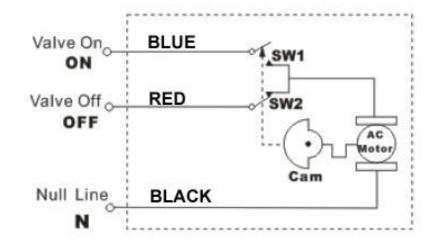


2-way 3-way

Electric Principle Drawing:

Website: www.beok-controls.com





When K is connected with L, the valve is opened. When K is disconnected, the valve is closed.

When ON is connected with L and OFF is disconnected, the valve is opened. When OFF is connected with L and ON is disconnected, the valve is closed.

3-Way & 1-Control

3-Way & 2-Control

Valve Spec:

	Model	Spec				
	Voltage	DN(mm)	Inner Screw Thread(G)			
		MKV522-DN15		15	1/2"	
3 Wire & 2-Control	2-Way	MKV522-DN20	2201//40	20	3/4"	
	Valve	MKV522-DN25	230V/AC	25	1"	
	3-Way Valve	MKV523-DN20	230V/AC	20	3/4"	
	3-Way Valve	MKV513-DN20	230V/AC	20	3/4"	
3 Wire & 1-Control		MKV512-DN15		15	1/2"	
	2-Way Valve	MKV512-DN20	230V/AC	20	3/4"	
		MKV512-DN25		25	1"	

Reminding:

- ◆ Valve installed at the entrance of the radiator, pay attention to the direction of the arrow.
- ◆In order to install thermostat conveniently, you should set handle in the largest open position before installation locking the thermolator nut screw onto the valve body.
- ◆When modify the old heating system, it shall be install filter on the front of the radiator thermostat.
- ◆You should install the radiator thermostat correctly and put the thermostat at horizontal position when installation.
- ◆ Evening set: in order to improve the comfort and energy saving, please lower the temperature in the evening or empty.
- ◆Frost protection: when you go out for a long time, please dispatch the thermostatic valve to the minimum control file and ensure it is anti-freezing.



GKV Series of Motorized Valves

Product Summary:

GKV 200 series of motorized valves are used to control the on/off of fan coil in air-conditioning system, central heating and flux in water system. The valves are divided into two parts, actuator and valve body.

The actuator is driven by synchronous motor, and the movement is stable. The built-in limit junction can make the power off when valves fully open or closed. Valve body is forged by brass, with zinc plating surface.



> Technical Parameter:

◆ Power Consumption:6W (Only when valve open or close)

◆ Motor Type: Synchronous Motor

◆ Wire Length:300MM

◆ Action Time:60S

◆ Nominal Pressure:1.6Mpa

◆Closed Pressure Differential:<0.6Mpa

◆ Connection Way:Pipe Thread G

◆ Medium Temperature:2-90°C

◆ Applicable Medium:Cold or hot water, glycol water liquor (≤50%).

◆ Specifications:(50/60 Hz) 24VAC 110VAC 220VAC



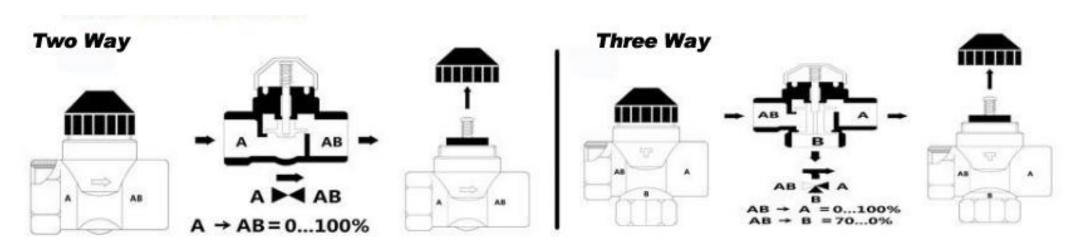
> Working Principle and Wiring Instructions:

Product Model	GKV200
Control Way	3 Wire & 1-Control
Working Principle	Motor was driven by unidirectional synchronous motor, the circuit of open valve is controlled while the one of closed valve is not. Open or closed valve is in place, the actuator will automatically cut off the power.
Wire Instruction	Blue wire(Line Wire) and brown wire(Fire Wire of closing valve) are directly connected with power. Black wire(Fire Wire of opening valve) is under controlled.

Valve Spec:

Product Spec		Pipe Joint	Product Size						KVS(M³/	Net Weight
		(Inch)	Н	H1	H2	L1	L2	L3	H)	(KG)
	GKV202-DN15	1/2	31	45.2	48	60	30	-	2	
Two Way	GKV202-DN20	3/4	31	45.2	48	65	32.5	-	3.5	0.66
	GKV202-DN25	1	31	45.2	48	84	42	-	5	0.87
	GKV203-DN15	1/2	31	45.2	48	60	30	27	2	
Three Way	GKV203-DN20	3/4	31	45.2	48	65	32.5	33	3.5	0.73
	GKV203-DN25	1	31	45.2	48	84	42	42	5	0.92

> Valve Working Diagram:







OTF-D Series of Motorized 4-Port and 3-Way Valves

Product Summary:

OTF-D series of motorized 4-port and 3-way valves are mainly applied to control the on/off of flow in the high-quality fan coil of air-conditioning and floor heating system, and also can be used to control the flow in all kinds of radiator or other heating system. It is a good suggestion to use it together with room thermostat or other motorized switching devices.

Technical Parameter:

◆ Working Voltage: AC220V±10%, 50/60Hz (Special-Made: 24VAC)

◆Power Consumption: 4W(230VAC, after running steadily)

6W(24VAC, after running steadily)

◆Running Time of Each Action: ≤5mins (at 25°C)

♦ Working Journey: 2.5~3.0mm

◆Nominal Pressure: 1.6Mpa

◆Applied Medium: Cold or hot water, glycol water liquor (≤50%).

◆Medium Temperature: 0~75°C



♦ Working Environment Temperature: 0~50°C

◆Storage Temperature: -20~+70°C

◆Grade of Protection: IP54

◆Storage Temperature: -20~+70°C

◆Grade of Protection: IP54

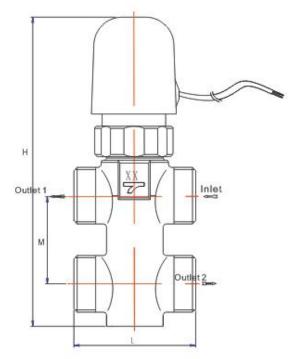
◆Safety Class: II (Double Insulation)

◆ Material of Valve Body: Brass

◆Material of Actuator: Outer Cover: PA66+30%GF

> Valve Spec:

	S	Dimension (mm)				Shut-OFF	
Model	DN(mm)	Female Thread (G)	L	Н	А	Kv(m³/h)	DP (Kpa)
OTF-D015-16C	15	1/2"	56	140	35	2.8	≤50
OTF-D020-16C	20	1"	56	145	40		



Outlet 1 is opened when power is on. Outlet 2 is opened when power is off.

OTN700 Series Thermostatic Radiator Valve(Angle&Straight)

Product Description:

OTN700 series thermostatic radiator valve is automatic control valve which installed on the radiator. Thermostatic radiator valve is a kind of proportional adjustment valve, it can work without other external energy. In addition, it can adjust and control the indoor temperature through changing the flow of heating hot water. It's a kind of cheap and energy-conserving products.



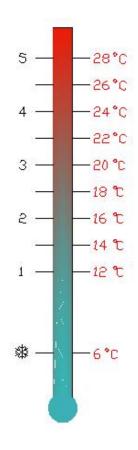




Main technical parameters:

- ◆The body of temperature control valve : brass
- ◆Stem: stainless steel.
- ◆Temperature sensing element: temperature sensitive hydraulic bulb.
- ◆Adjustment scale: *-1-2-3-4-5-max.
- ◆Temperature regulation range: 6-28°C.
- ◆Nominal pressure: not more than 1 mpa.
- ◆Specification: DN15/DN20 (straight, Angle).
- ◆ Material of Valve Body: Brass.
- ◆ Material of Actuator: Outer Cover: ABS+PC Engineering

Plastic



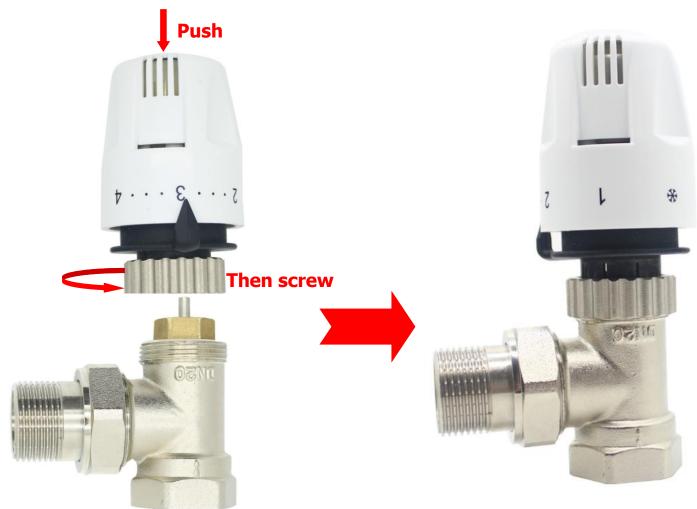
Valve Spec:

Model			Spec	Dimensions		
		DN(mm)	mm) Inner screw thread (G)		Н	
OTN700		15	1/2"	75	127	
Angle valve	OTN700	20	3/4″	80	132	
	OTN700	15	1/2"	63	142	
Straight valve	OTN700	20	3/4″	75	147	





Installation and usage:



♦ Valve instance at the entrance of the radiator, pay attention to the direction of the arrow.

- ◆In order to install thermostat conveniently, you should set handle in the largest open position before installation (figure 5) locking the thermolator nut screw onto the valve body.
- ◆When modify the old heating system, it shall be install filter on the front of the radiator thermostat.
- ◆You should install the radiator thermostat correctly and put the thermostat at horizontal position when installation.
- ◆ Evening set: in order to improve the comfort and energy saving, please lower the temperature in the evening or empty.
- ◆Frost protection: when you go out for a long time, please dispatch the thermostatic valve to the minimum control file and ensure it is anti-freezing.



