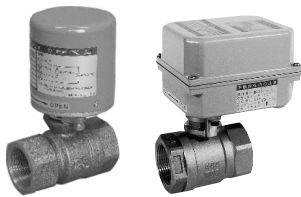


BM-12S, 13S, 14S Type Ball Valve Type Motor Valve

Two-way valve for on/off control

Compact, light weight, general purpose ball type motor valve with rated voltage AC100/200V, wide range of applicable pressure, and can be handled as easily as solenoid valve.

BM-12S Type is a valve for general purpose, BM-13S Type has long neck, and BM-14S Type has stainless steel body. Both are for on/off control.


 BM-12S Type
(Size 10~25mm)

 BM-12S Type
(Size 32~50mm)


BM-13S Type

BM-14S Type

FEATURES

- Rated voltage AC100/200V.
- Compact, light weight, easy to handle.
- Wide range of applicable pressure for a variety of applications.
- No limitation on flow direction and installation direction (in the case of indoor application).
- Durable stainless steel ball.

SPECIFICATIONS

Model name	BM-12S	BM-13S	BM-14S
Code name	BM12S-J	BM13S-J	BM14S-D
Type	Standard neck	Long neck	Standard neck
Size	10~50(3/8"~2")	15~25(1/2"~1")	
Applicable fluid	Water, oils*1, air, gases, & liquids		
Fluid temperature	-10~80°C(Freezing is not allowed.)		
Applicable pressure	0~1.0MPa		
Ambient temperature	-10~50°C		
Operation	ON/OFF control		
Leakage allowance	Water & oils:Nil(Confirm at pressure gauge), Air & gases:50mL/min(Standard state) or less		
End connection	Screwed JIS Rc		
Valve body pressure test	Hydraulic 1.75MPa		
Materials	Body	Cast bronze(Brass for Size 32~50mm)	Stainless steel
	Ball	Stainless steel	
Rated voltage	Common use AC100/110/200/220V (50/60Hz)*2		
Allowable voltage fluctuation range	Rated voltage ±5%		
Rated capacity	Size 10~25mm:13VA(AC110V), 26VA(AC220V), Size 32~50mm:20VA(AC110V), 40VA(AC220V)		
Rated/Starting current	Size 10~25mm:0.12A/0.12A, Size 32~50mm:0.18A/0.18A		
Open/close time	Size 10~25mm:4.6/3.8sec(50/60Hz), Size 32~50mm:10/8.5sec(50/60Hz)		
Insulation	Class E		
Time rating	Size 10~25mm:20min, Size 32~50mm:10min		
Withstanding voltage test	AC 1500V/min		
Insulation resistance	50MΩ or more		
Overload protection	Thermal protector is built in		
Protection	Rain proof type (IP-53 corresponding)*5		
Manual control device	Equipped		

- * 1. If there is any local regulation for fuel oils or diesel oil, confirm the body materials according to the regulation.
 * 2. Other special voltage is available upon your request.
 * 3. Space-heater is also available upon your request. (Pay attention to avoid rust caused by dew condensation inside the actuator).
 * 4. Inner relay and open/close signal contact are also available upon your request.
 * 5. Avoid exposure to direct sunray in the case of outdoor installation.

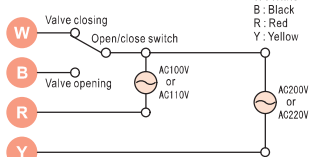
DIMENSIONS

(mm)

Size	d	D	L	L ₁	G	Cv value	BM-12S Type		BM-13S Type		BM-14S Type	
							H	Mass(kg)	H	Mass(kg)	H	Mass(kg)
10(3/8")	3/8"	12.5	62	31	16	4.5	107	1.2	—	—	—	—
15(1/2")	1/2"	12.5	62	31	16	7	107	1.2	138	1.2	107	1.1
20(3/4")	3/4"	15	72	35(33)	19	10	111	1.3	140	1.3	111	1.2
25(1")	1"	21	81	40.5	23	20	115	1.5	145	1.5	115	1.4
32(1 1/4")	1 1/4"	24	82	41	29	25	128	2.3	—	—	—	—
40(1 1/2")	1 1/2"	32	96	45	34	45	134	2.7	—	—	—	—
50(2")	2"	38	120	57	41	63	140	3.7	—	—	—	—

* Figures in () are for BM-14S Type

WIRING DIAGRAM



Unused wire (red or yellow) must be insulated.
 Note: Install space heater if condensation is anticipated.

CONSTRUCTION

