

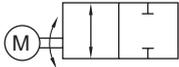
Oil-free motorized 2-port ball valve

MXB1-FP2/MXB1D-FP2 Series

● Port size: Rc3/8 to Rc2

General Purpose Valves
Catalog No. CB-03-1SA

JIS symbol



Common specifications

Item	MXB1(Standard)/MXB1D(With relay)
Working fluid	Water/air/oil (500mm ² /s or less)
Working pressure MPa	0 to 1.0(Refer to working pressure in individual specifications.)
Proof pressure(water pressure)MPa	2.0
Fluid temperature °C	0 to 80(no freezing)
Ambient temperature °C	-10 to 50
Ambient humidity %	95 or less
Mounting orientation	From vertical direction with the actuator on the top to horizontal direction. (General Purpose Valves (Catalog No.CB-03-1SA).)
Pressurization direction	Arbitrary
Degree of protection	IPX3 "rainproof"

Electrical specifications

Item	MXB1-10	MXB1-15	MXB1-20	MXB1-25	MXB1-32	MXB1-40	MXB1-50
Rated voltage *1	100 VAC (50/60Hz), 200 VAC (50/60Hz), 12 VDC, 24 VDC						
Apparent powerVA	Operating	100 VAC	4.9/5.9 (50/60Hz)			13/15 (50/60Hz)	
		200 VAC	5.4/6.2 (50/60Hz)			13/15 (50/60Hz)	
	When starting	100 VAC	4.9/5.9 (50/60Hz)			13/15 (50/60Hz)	
		200 VAC	5.4/6.2 (50/60Hz)			13/15 (50/60Hz)	
Average current valueA	12 VDC	1.1			1.5		
	*2 24 VDC	0.7			1.0		
Starting currentA	12 VDC	1.8 or less			3 or less		
	*2 24 VDC	1.2 or less			2 or less		
Power consumptionW	AC	7			15		
	12 VDC	13			18		
	24 VDC	17			24		

Item	MXB1D-10	MXB1D-15	MXB1D-20	MXB1D-25	MXB1D-32	MXB1D-40	MXB1D-50
Rated voltage *1	100 VAC (50/60Hz), 200 VAC (50/60Hz)						
Apparent powerVA	Operating	100 VAC	6.0/6.8 (50/60Hz)			14/16 (50/60Hz)	
		200 VAC	6.6/7.2 (50/60Hz)			14/16 (50/60Hz)	
	When starting	100 VAC	6.0/6.8 (50/60Hz)			14/16 (50/60Hz)	
		200 VAC	6.6/7.2 (50/60Hz)			14/16 (50/60Hz)	
Power consumption W	8			16			

Individual specifications

Item	MXB1-10	MXB1-15	MXB1-20	MXB1-25	MXB1-32	MXB1-40	MXB1-50
	MXB1D-10	MXB1D-15	MXB1D-20	MXB1D-25	MXB1D-32	MXB1D-40	MXB1D-50
Port size	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1½	Rc1½	Rc2
Orifice size mm	10	10	15	20	25	32	40
Cv	10	6	16	29	50	98	125
Working pressure MPa	0 to 1.0						0 to 0.5
Response timesec	AC	10/8(50/60Hz)			13/11(50/60Hz)		
	DC	8			10.5		
Frequency	AC	2 cycles/min. or less			1 cycle/min. or less		
	*3 DC	1 cycle/min. or less			1 cycle/2 min. or less		
Weight kg	MXB1	1.2	1.2	1.4	1.5	2.6	3.1
	MXB1D	1.2	1.3	1.4	1.6	2.7	3.1

*1: Use the product within ±10% of the rated voltage.

*2: Current values at the rated voltage.

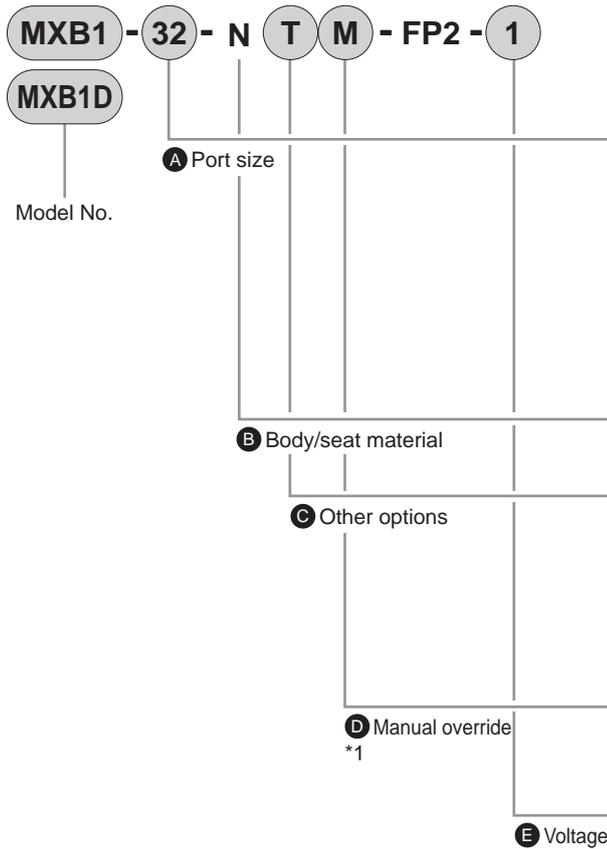
*3: Be sure to observe the specified frequency of use.

*4: Consult with CKD for specifications not indicated above.

MXB1-FP2/MXB1D-FP2 Series

How to order

How to order



Code	Description	Model No.			
		MXB1	MXB1D		
A Port size					
10	Rc3/8	●	●		
15	Rc1/2	●	●		
20	Rc3/4	●	●		
25	Rc1	●	●		
32	Rc1 ¹ / ₄	●	●		
40	Rc1 ¹ / ₂	●	●		
50	Rc2	●	●		
B Body/seat material					
N	Body - stainless steel/seat - PTFE/oil-prohibited specifications	●	●		
C Other options					
	Description	Applications	Remarks	MXB1	MXB1D
Blank	5-conductor cable 0.5mm ² (With output lead wire)	-	-	●	●
T	3-conductor cable 0.75mm ² (Without signal output)	When output lead wire is not required	3-conductor cable used	●	●
D Manual override					
Blank	No			●	●
M	Manual override			●	●
E Voltage					
1	100 VAC (50/60 Hz)			●	●
2	200 VAC (50/60 Hz)			●	●
3	24 VDC			●	
4	12 VDC			●	

*1: Manual override (D Item M) is for port sizes 32/40/50. Manual override is provided as standard with other port size.

[Model No. example]

MXB1-32-NTM-FP2-1

Model: MXB1 (standard)

- A** Port size: Rc1¹/₄
- B** Body material: Body - stainless steel/seat - PTFE/oil-prohibited specifications
- C** Other options: 3-conductor cable (without output lead wire)
- D** Manual override: Selected
- E** Voltage: 100 VAC (50/60 Hz)

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FL/Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves

For dimensions, refer to the MXB1/MXB1D Series in "General Purpose Valves (CB-03-1SA)".



General Purpose Valves
Catalog No. CB-03-1SA

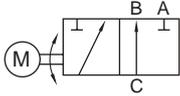
Oil-free motorized 3-port ball valve

MXG1-FP2/MXG1D-FP2 Series

● Port size: Rc1/2 to Rc2



JIS symbol



Common specifications

Item	MXG1(Standard)/MXG1D(With relay)
Working fluid	Water/air/oil (500mm ² /s or less)
Working pressure MPa	0 to 1.0(Refer to working pressure in individual specifications.)
Proof pressure(water pressure)MPa	2.0
Fluid temperature °C	0 to 80 (no freezing)
Ambient temperature °C	-10 to 50
Ambient humidity %	95 or less
Mounting orientation	From vertical direction with the actuator on the top to horizontal direction.
Pressurization direction	Port C pressurization only
Degree of protection	IPX3 "rainproof"

Electrical specifications

Item		MXG1-15	MXG1-20	MXG1-25	MXG1-32	MXG1-40	MXG1-50
Rated voltage	*1	100 VAC(50/60Hz), 200 VAC(50/60Hz), 12 VDC, 24 VDC					
Apparent power VA	Operating	100 VAC	4.9/5.9(50/60Hz)			13/15(50/60Hz)	
		200 VAC	5.4/6.2(50/60Hz)			13/15(50/60Hz)	
	When starting	100 VAC	4.9/5.9(50/60Hz)			13/15(50/60Hz)	
		200 VAC	5.4/6.2(50/60Hz)			13/15(50/60Hz)	
Average current valueA	12 VDC	1.1			1.5		
	*2 24 VDC	0.7			1.0		
Starting current A	12 VDC	1.8 or less			3 or less		
	*2 24 VDC	1.2 or less			2 or less		
Power consumption W	AC	7			15		
	12 VDC	13			18		
	24 VDC	17			24		

Item		MXG1D-15	MXG1D-20	MXG1D-25	MXG1D-32	MXG1D-40	MXG1D-50
Rated voltage	*1	100 VAC(50/60Hz), 200 VAC(50/60Hz)					
Apparent power VA	Operating	100 VAC	6.0/6.8(50/60Hz)			14/16(50/60Hz)	
		200 VAC	6.6/7.2(50/60Hz)			14/16(50/60Hz)	
	When starting	100 VAC	6.0/6.8(50/60Hz)			14/16(50/60Hz)	
		200 VAC	6.6/7.2(50/60Hz)			14/16(50/60Hz)	
Power consumption	W	8			16		

Individual specifications

Item		MXG1-15	MXG1-20	MXG1-25	MXG1-32	MXG1-40	MXG1-50	
		MXG1D-15	MXG1D-20	MXG1D-25	MXG1D-32	MXG1D-40	MXG1D-50	
Port size		Rc1/2	Rc3/4	Rc1	Rc1 ¹ / ₄	Rc1 ¹ / ₂	Rc2	
Orifice size	mm	10	14	19	23	30	38	
Cv		3	6	11	16	28	47	
Working pressure	MPa	0 to 1.0					0 to 0.5	
Response time sec	AC	20/16(50/60Hz)			26/22(50/60Hz)			
	DC	16			21			
Frequency	AC	1 cycle/min. or less			1 cycle/2 min. or less			
	*3 DC	1 cycle/2 min. or less			1 cycle/5 min. or less			
Weight	kg	MXG1	1.3	1.4	1.7	2.7	3.2	4.1
		MXG1D	1.3	1.5	1.7	2.7	3.3	4.2

*1: Use the product within ±10% of the rated voltage.

*2: Current values at the rated voltage.

*3: Be sure to observe the specified frequency of use.

*4: Consult with CKD for specifications not indicated above.

MXG1-FP2/MXG1D-FP2 Series

How to order

How to order

MXG1 - **20** - **N** **K** - **FP2** - **2**

MXG1D

Model No.

A Port size

B Body/seat material

C Other options

D Voltage

Code	Description	Model No.			
		MXG1	MXG1D		
A Port size					
15	Rc1/2	●	●		
20	Rc3/4	●	●		
25	Rc1	●	●		
32	Rc1 1/4	●	●		
40	Rc1 1/2	●	●		
50	Rc2	●	●		
B Body/seat material					
N	Body - stainless steel/seat - PTFE/oil-prohibited specifications	●	●		
C Other options					
	Description	Applications	Remarks	MXG1	MXG1D
Blank	5-conductor cable 0.5mm ² (With output lead wire)	-	-	●	●
T	3-conductor cable 0.75mm ² (Without signal output)	When output lead wire is not required	3-conductor cable used	●	●
K	Multi-fluid type (90°Rotation switching method Response time 1/2)	To remove load to pump	Fluids may mix somewhat during switching	●	●
TK	3-conductor cable 0.75mm ² Multi-fluid type	-	-	●	●
D Voltage					
1	100 VAC (50/60 Hz)	●	●		
2	200 VAC (50/60 Hz)	●	●		
3	24 VDC	●			
4	12 VDC	●			

[Model No. example]

MXG1-20-NK-FP2-2

Model: MXG1

- A** Port size: Rc3/4
- B** Body/seat material: Body - stainless steel/seat - PTFE/oil-prohibited specifications
- C** Other options: Multi-fluid type (90°Rotation switching method, response time 1/2)
- D** Voltage: 200 VAC (50/60 Hz)

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FR/L Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves

For dimensions, refer to the MXG1/MXG1D Series in "General Purpose Valves (CB-03-1SA)".