

Metal free 2, 3 port solenoid valve for chemical liquid

MYB1/MYG1 Series

- NC (normally closed) type, universal type
- Working fluid: water, pure water, chemical liquids
- Port size: M6

Constitutions

FAB/G

JIS symbol

MYB1 (2 port)
 : NC (normally closed) type



MYG1 (3 port)
 : universal type



Specifications								
Item		MYB1-M6 MYG1-M6						
Working fluid		Water, pure water, chemical liquids (fluids that do not corrode materials at wetted parts)						
Working pressure range	MPa	Conditions Fluid flow direction Working pressure range of each port Conditions Fluid flow direction Working pressure range of each port IN positive IN → OUT 0 to 0.2 0 to 0.1 CoM positive OUT → IN 0 to 0.2 0 to 0.1 CoM positive OU → NO 0 to 0.1 0 to 0.1						
Fluid temperature	э°С	5 to 60						
Ambient temperatur	е°С	0 to 50 (no freezing)						
Atmosphere		Not in explosive or corrosive environment						
Valve seat leakage cm3/	/min.	0 (water pressure)						
Port size		M6 (*4)						
Orifice	mm	Equivalent to 2.0						
Cv flow factor		0.1						
Mounting attitude	÷	Free						
Weight	kg	0.14						
Electric specificat	tions	6						
Rating		Continuous						
Voltage		12 VDC, 24 VDC, 100 VAC (50/60 Hz)						
Voltage fluctuation range		-10 to +10% of rated voltage						
Power consumption W AC		3.8						
	DC	3.0						
Leakage current mA		2 or less (12 VDC) / 1 or less (24 VDC) / 1.5 or less (100 VAC) (*6)						
Heat proof class		В						

Heat proof class

*1: Read the safety precautions for MYB1/MYG1 (page 768).

*2: Before starting use, check the compatibility between the materials of the product and working fluid. Working fluids must not adhere to the product body.

*3: Foreign matter etc. inside the piping may cause malfunction and valve seat leakage. Always flush the piping before installing the valve.

*4: Do not use metal joints because they could damage the port. Use a PP or fluorine resin joint.

Wrap PTFE sealing tape two to thee times around the joint. Tighten the joint with the recommended tightening torque below. Recommended tightening torque: 0.10 to 0.15 N·m

*5: Do not use for hydrochloric acid, hydrofluoric acid, nitric acid or sodium hypochlorite (soda).

*6: Keep leakage current from the control circuit within the levels below.

*7: When standing the secondary piping, do not make it higher than 2 m. Use tubing or piping with the same or larger bore size as the orifice to fix the pipe.

*8: Do not disassemble the product.

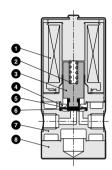
How to order

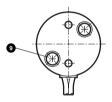
MY (B) 1) - (M6) - (DC12V)		
	Symbol	Descriptions
No. of port	A No. of por	t
	В	2 port
	G	3 port
BOrifice	B Orifice	
Gonice	1	ø2
Port size	C Port size	
G Port size	M6	M6
Rated voltage	D Rated volt	tage
• Rated voltage	DC12V	12 VDC
	DC24V	24 VDC
	AC100V	100 VAC (50/60 Hz)

MYB1/MYG1 Series

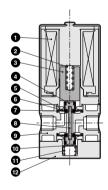
Internal structure and parts list

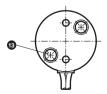
MYB1-M6





• MYG1-M6



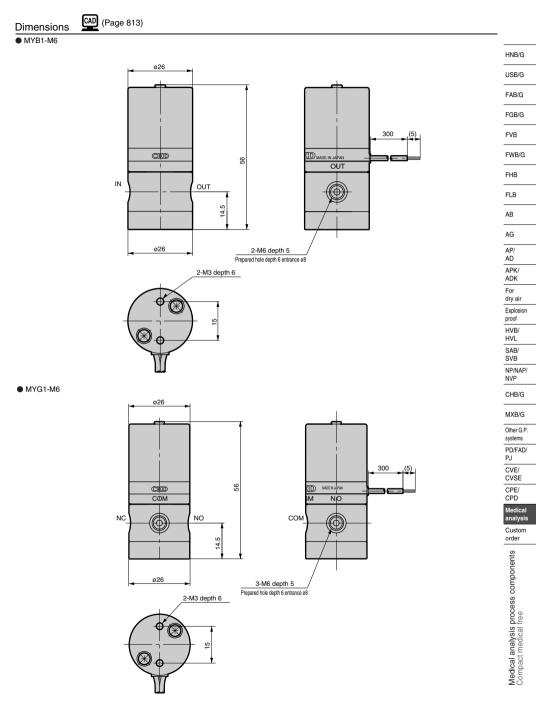


No.	Parts name	Material		
1	Coil assembly	Class B molded coil		
2	Spring	SUS304	Stainless steel	
3	Plunger	SUS405	Stainless steel	
4	Diaphragm receiving	PPS	Polyphenylene sulfide	
5	Protection seat	PTFE	Tetrafluoroethylene resin	
6	Diaphragm	FKM	Fluoro rubber	
7	Body	PPS	Polyphenylene sulfide	
8	Mounting plate	SUS303	Stainless steel	
9	Spring washer assembled cross headed pan head machine screw	SUSXM7	Stainless steel	

No.	Parts name	Material	
1	Coil assembly	Class B m	olded coil
2	Spring	SUS304	Stainless steel
3	Plunger	SUY	Iron
4	Spacer	PPS	Polyphenylene sulfide
5	Diaphragm receiving	PPS	Polyphenylene sulfide
6	Protection seat	PTFE	Tetrafluoroethylene resin
7	Diaphragm	FKM	Fluoro rubber
8	Rod	Ceramic	
9	Body	PPS	Polyphenylene sulfide
10	Spring holder	SUS304	Stainless steel
11	Spring	SUS304	Stainless steel
12	Mounting plate	SUS303	Stainless steel
13	Spring washer assembled cross headed pan head machine screw	SUSXM7	Stainless steel

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MYB1/MYG1 Series





Metal free 2, 3 port solenoid valve for chemical liquid

MYB2/MYG2 Series

- NC (normally closed) type, universal type
- Working fluid: water, pure water, chemical liquids
- Port size: Rc1/8

Specifications



JIS symbol ● MYB2 (2 port)

: NC (normally closed) type



MYG2 (3 port)
 : universal type



Item	MYB2-6	MYG2-6						
Working fluid	Water, pure water, chemical liquids (fluids the	hat do not corrode materials at wetted parts)						
Working pressure range MPa	$\label{eq:conditions} \begin{array}{c c c c c c c c c c c c c c c c c c c $	Conditions Fluid flow directon Working pressure angred reach port (IPa) COM positive COM NC NO COM positive COM > NO r NC 0 to 0.1 0 to 0.1 0 to 0.1 NC positive NC → COM 0 to 0.1 0 to 0.1 0 to 0.1 0 to 0.1 NC positive NC → COM 0 to 0.1 0 to 0.1 0 to 0.1 0 to 0.1 COM regaries NO or NC 0.05 to 0.405 to 0.405						
Fluid temperature °C	5 tc	0 60						
Ambient temperature °C	0 to 50 (no	o freezing)						
Atmosphere	Not in explosive or c	orrosive environment						
Valve seat leakage cm3/min.	0 (water pressure)							
Port size	Rc1/8 (*4)							
Orifice mm	Equivale	ent to 3.0						
Cv flow factor	0.	18						
Mounting attitude	Free							
Weight kg	0.22 0.24							
Electric specifications	5							
Rating	Continuous							
Voltage V	24 VDC, 100 VAC (50/60 Hz)							
Voltage fluctuation range	-10 to +10% of rated voltage							
Power consumption W	5.5							
Rush current A	1 or less							
Leakage current mA	24 VDC: 1 or less, 100 VAC: 6 or less (*6)							
Heat proof class	В							

*1: Read the safety precautions for MYB2/MYG2 (page 768).

*2: Before starting use, check the compatibility between the materials of the product and working fluid. Working fluids must not adhere to the product body.

*3: Foreign matter etc. inside the piping may cause malfunction and valve seat leakage. Always flush the piping before installing the valve.

*4: Do not use metal joints because they could damage the port. Use a PP or fluorine resin joint.

Wrap PTFE sealing tape two or three times around a joint which is compatible with the JIS B 0203 pipe taper screw.

Tighten the joint with the recommended tightening torque below.

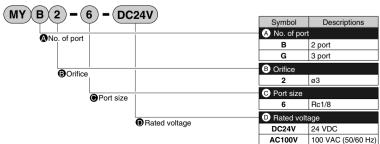
Recommended tightening torque: 0.5 to 0.8 N·m

*5: Do not use for hydrochloric acid, hydrofluoric acid, nitric acid or sodium hypochlorite (soda).

*6: Keep leakage current from the control circuit within the levels below.
*7: When standing the secondary piping, do not make it higher than 2 m. Use tubing or piping with the same or

- larger bore size as the orifice to fix the pipe.
- *8: Do not disassemble the product.
- *9: As this product, incorporating electronic oscillator circuits, generates noise, noise prevention should be taken on the same power supply wire.

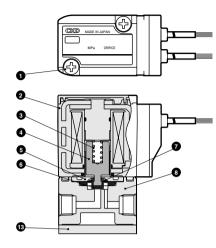
How to order



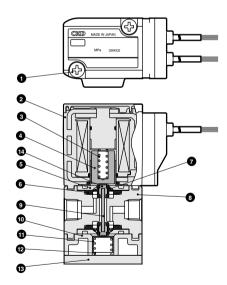
MYB2/MYG2 Series

Internal structure and parts list

MYB2 (2 port valve)



MYG2 (3 port valve)



No.	Parts name	Material		No.	Parts name	Material	
1	Cross headed pan head machine screw	SUSXM7	Stainless steel	8	Body	PPS	Polyphenylene sulfide
2 Coil assembly		Class B mode coil		9	Rod	Ceramic	
3	Spring	SUS304	Stainless steel	10	Base	PPS	Polyphenylene sulfide
4	Plunger	SUS405	Stainless steel	11	Spring holder	SUS304	Stainless steel
5	Diaphragm receiving	PPS	Polyphenylene sulfide	12	Spring	SUS304	Stainless steel
6	Diaphragm	FKM	Fluoro rubber	13	Mounting plate	SUS304	Stainless steel
7	Protection seat	PTFE	Tetrafluoroethylene resin	14	Сар	PPS	Polyphenylene sulfide

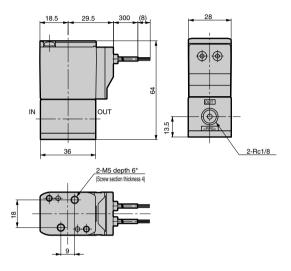
HNB/G

order

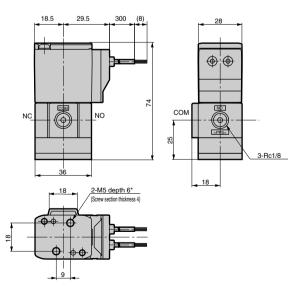
MYB2/MYG2 Series

Dimensions (Page 813)

MYB2 (2 port valve)



MYG2 (3 port valve)



* When a set screw end in fixing holes 2-M5 is more than 6 mm from the bottom of the mounting plate, the screw cuts into the body or base, leading to cracking. The screw end must be 6 mm or less from the bottom of the mounting plate.

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Specifications

Metal free 2, 3 port solenoid valve for chemical liquid

MYB3/MYG3 Series

- NC (normally closed) type, universal type
- Working fluid: water, pure water, chemical liquids
- Port size: R1/8, R1/4, R3/8

JIS symbol

MYB3 (2 port)
 : NC (normally closed) type



MYG3 (3 port)
 : universal type



Specifications								
Item		MYB3			MYG3			
Working fluid		Water, pure water, chemical liquids (fluids that do not corrode materials at wetted par						
range	MPa	IN positive IN → OUT	Working pressure r IN 0 to 0.2 0 to 0.1 -0.05 to 0	OUT 0 to 0.1 0 to 0.1 -0.05 to 0	Conditions Fluid flow direction Working pressure range of each point COM positive COM → NO or NC 0 to 0.2 0 to 0.1 0 to 0.1 NC positive NC → COM 0 to 0.2 0 to 0.1 0 to 0.1 0 to 0.1 NC positive NO → COM 0 to 0.1 0 to 0.1 0 to 0.1 0 to 0.1 NC positive NO → COM 0 to 0.1 0 to 0.1 0 to 0.1 0 to 0.1 COM negative NO or NC → COM -0.05 to 0 -0.05 to 0 -0.05 to 0			
Fluid temperature	e °C			5 to	o 60			
Ambient temperature	e °C			0 to 50 (no	o freezing)			
Atmosphere		Not in explosive or corrosive environment						
Valve seat leakage cm3	³/min.	0 (water pressure)						
Port size		Rc1/8, Rc1/4, Rc3/8 (*4)						
Orifice	mm	Equivalent to 5.0						
Cv flow factor		0.5						
Mounting attitude	Э			Fr	ee			
Weight	kg	C	.55		0.6			
Electric specifica	tions	3						
Rating		Continuous						
Voltage		12 VDC, 24 VDC, 100 VAC (50/60 Hz)						
Voltage fluctuation range		-10 to +10% of rated voltage						
Power consumption W AC		11						
	DC			11	1.5			
Leakage current mA		2 or less (12 VDC) / 1 or less (24 VDC) / 2 or less (100 VAC) (*6)						
Heat proof class		В						

Heat proot class

*1: Read the safety precautions for MYB3/MYG3 (page 768).

*2: Before starting use, check the compatibility between the materials of the product and working fluid. Working fluids must not adhere to the product body.

*3: Foreign matter etc. inside the piping may cause malfunction and valve seat leakage. Always flush the piping before installing the valve.

*4: Do not use metal joints because they could damage the port. Use a PP or fluorine resin joint. Wrap PTFE sealing tape two or three times around a joint which is compatible with the JIS B 0203 pipe taper screw.

Tighten the joint with the recommended tightening torque below.

Recommended tightening torque: Rc1/8: 0.5 to 0.8 N·m, Rc1/4 and Rc3/8: 1.0 to 1.5 N·m

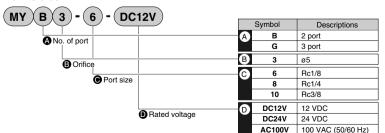
*5: Do not use for hydrochloric acid, hydrofluoric acid, nitric acid or sodium hypochlorite (soda).

*6: Keep leakage current from the control circuit within the levels below.

*7: When standing the secondary piping, do not make it higher than 2 m. Use tubing or piping with the same or larger bore size as the orifice to fix the pipe.

*8: Do not disassemble the product.

How to order

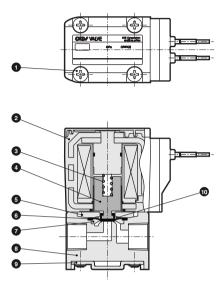


FAB/G FGB/G FVB FWB/G FHB FLB AB AG AP/ AD APK/ ADK For dry air Explosion proof HVB/ HVL SAB/ SVB NP/NAP/ NVP CHB/G MXB/G Other G.P systems PD/FAD/ P.J CVE/ CVSE CPE/ CPD Medica analysis Custom order Medical analysis process components Compact medical free

MYB3/MYG3 Series

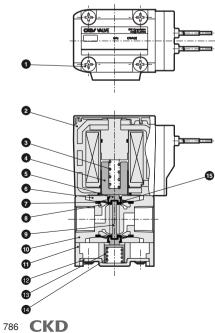
Internal structure and parts list

• MYB3



No.	Parts name	Material		
1	Cross headed pan head machine screw	SUSXM7	Stainless steel	
2	Coil assembly	Class B molded coil		
3	Spring	SUS304	Stainless steel	
4	Plunger	SUS405	Stainless steel	
5	Diaphragm receiving	PPS	Polyphenylene sulfide	
6	Diaphragm	FKM	Fluoro rubber	
7	Diaphragm receiving	PPS	Polyphenylene sulfide	
8	Body	PPS	Polyphenylene sulfide	
9	Mounting plate	SUS304	Stainless steel	
10	Protection seat	PTFE	Tetrafluoroethylene resin	

• MYG3



NI-	Dorto nomo	Material	
No.	Parts name	Material	
1	Cross headed pan head machine screw	SUSXM7	Stainless steel
2	Coil assembly	Class B m	olded coil
3	Spring	SUS304	Stainless steel
4	Plunger	SUS405	Stainless steel
5	Spacer	PPS	Polyphenylene sulfide
6	Diaphragm receiving	PPS	Polyphenylene sulfide
7	Diaphragm	FKM	Fluoro rubber
8	Diaphragm receiving	PPS	Polyphenylene sulfide
9	Rod	Ceramic	
10	Body	PPS	Polyphenylene sulfide
11	Base	PPS	Polyphenylene sulfide
12	Mounting plate	SUS304	Stainless steel
13	Spring holder	SUS304	Stainless steel
14	Spring	SUS304	Stainless steel
15	Protection seat	PTFE	Tetrafluoroethylene resin

MYB3/MYG3 Series

