



Metal-free 2, 3-port solenoid valve

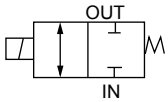
# MYB1/MYG1 Series

- NC (open when energized), universal
- Working fluid: Water/pure water/chemical liquids
- Port size: M6

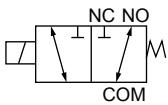


## JIS symbol

- MYB1 (2-port)  
: NC (open when energized)



- MYG1 (3-port)  
: Universal



## Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	MYB1-M6	MYG1-M6							
Working fluid	Water/pure water/chemical liquids (fluids that do not corrode wetted part materials)								
Proof pressure MPa	0.3 (≈44 psi, 3 bar) (water pressure)								
Working pressure MPa	Conditions	Fluid flow direction	Working pressure range of each port	Conditions	Fluid flow direction	Working pressure range of each port			
			IN	OUT		COM	NC	NO	
	IN (+) press	IN→OUT	0 to 0.2	0 to 0.1	COM (+) press	COM→NO or NC	0 to 0.2	0 to 0.1	0 to 0.1
	OUT (+) press	OUT→IN	0 to 0.1	0 to 0.1	NC (+) press	NC→COM	0 to 0.1	0 to 0.1	0 to 0.1
				IN (-) press	OUT→IN	-0.05 to 0	-0.05 to 0		
				NO (+) press	NO→COM	0 to 0.1	0 to 0.1	0 to 0.1	
				COM (-) press	NO or NC→COM	-0.05 to 0	-0.05 to 0	-0.05 to 0	
Fluid temperature °C	5 (41°F) to 60 (140°F)								
Ambient temperature °C	0 (32°F) to 50 (122°F)								
Atmosphere	No explosive or corrosive atmospheres								
Valve seat leakage cm <sup>3</sup> /min	0 (water pressure)								
Port size	M6								
Orifice size mm	2.0 or equiv.								
Cv	0.1								
Mounting orientation	Unrestricted								
Weight kg	0.14								
<b>Electrical specifications</b>									
Rated voltage	12 VDC/24 VDC/100 VAC(50/60 Hz)								
Voltage fluctuation range	±10%								
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) (*1)								
Thermal class	Class 130 (B)								

\*1: The leakage current from the control circuit must be equal to or less than the values shown in the table.

## How to order

**MY B 1 - M6 - DC12V**

**A** Number of ports

**B** Orifice size

**C** Port size

**D** Rated voltage

Code	Description
<b>A Number of ports</b>	
<b>B</b>	2-port
<b>G</b>	3-port
<b>B Orifice size</b>	
<b>1</b>	ø2
<b>C Port size</b>	
<b>M6</b>	M6
<b>D Rated voltage</b>	
<b>DC12V</b>	12 VDC
<b>DC24V</b>	24 VDC
<b>AC100V</b>	100 VAC(50/60 Hz)

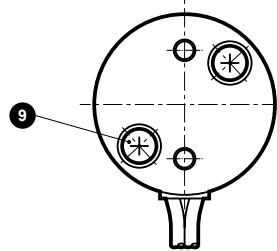
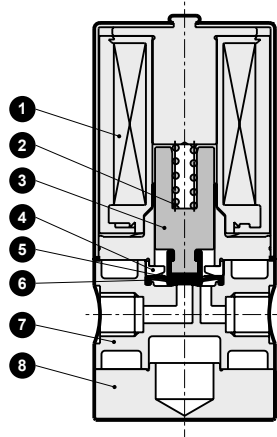
EXA  
FWD  
HNB/G  
USB/G  
FAB/G  
FGB/G  
FVB  
FWB/G  
FHB  
FLB  
AB  
AG  
AP/  
AD  
APK/  
ADK  
DryAir  
EX-  
XPLNprf  
XPLNprf  
HVB/  
HVL  
S ⚡ B/  
NAB  
LAD/  
NAD  
Water-  
Rela  
NP/NAP/  
NVP  
SNP  
CHB/G  
MXB/G  
Other  
valves  
SWD/  
MWD  
DustColl  
CVE/  
CVSE  
CCH/  
CPE/D  
LifeSci  
Gas-  
Combus  
Auto-  
Water  
Outdoor  
SpecFld  
Custom  
Ending

# MYB1/MYG1 Series

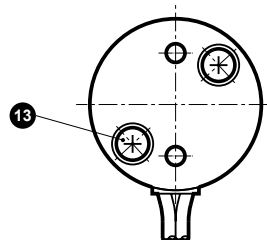
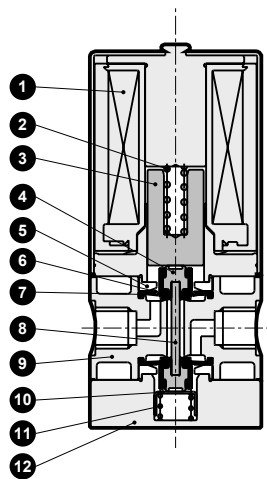
## Internal structure and parts list

- EXA
- FWD
- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/AD
- APK/ADK
- DryAir
- EX-XPLNprf
- XPLNprf
- HVB/HVL
- S◇B/NAB
- LAD/NAD
- Water-Rela
- NP/NAP/NVP
- SNP
- CHB/G
- MXB/G
- Other valves
- SWD/MWD
- DustColl
- CVE/CVSE
- CCH/CPE/D
- LifeSci
- Gas-Combus
- Auto-Water
- Outdoor
- SpecFld
- Custom
- Ending

### ● MYB1-M6



### ● MYG1-M6



**Cannot be disassembled**

No.	Part name	Material
1	Coil assembly	Class B molded coil
2	Spring	SUS304 Stainless steel
3	Plunger	SUS405 or equiv. Stainless steel
4	Diaphragm adaptor	PPS Polyphenylene sulfide
5	Protective sheet	PTFE Tetrafluoroethylene resin
6	Diaphragm	FKM Fluoro rubber
7	Body	PPS Polyphenylene sulfide
8	Mounting plate	SUS303 Stainless steel
9	Phillips pan head machine screw, captive spring washer	SUSXM7 Stainless steel

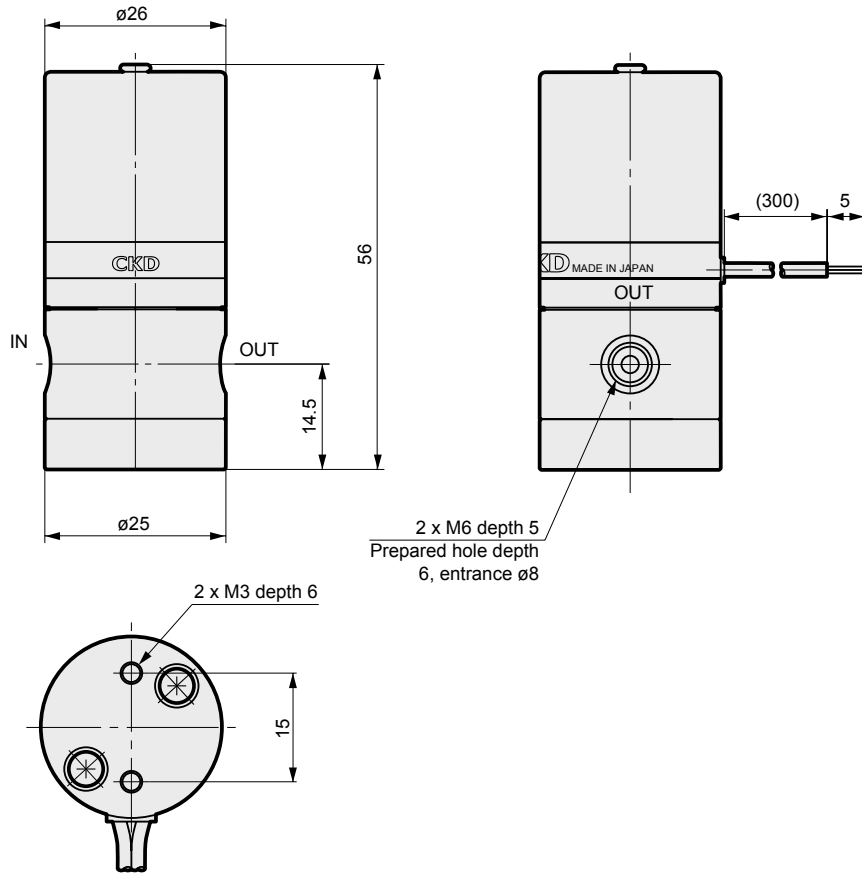
**Cannot be disassembled**

No.	Part name	Material
1	Coil assembly	Class B molded coil
2	Spring	SUS304 Stainless steel
3	Plunger	SUY Iron
4	Spacer	PPS Polyphenylene sulfide
5	Diaphragm adaptor	PPS Polyphenylene sulfide
6	Protective sheet	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	Phillips pan head machine screw, captive spring washer	SUSXM7 Stainless steel

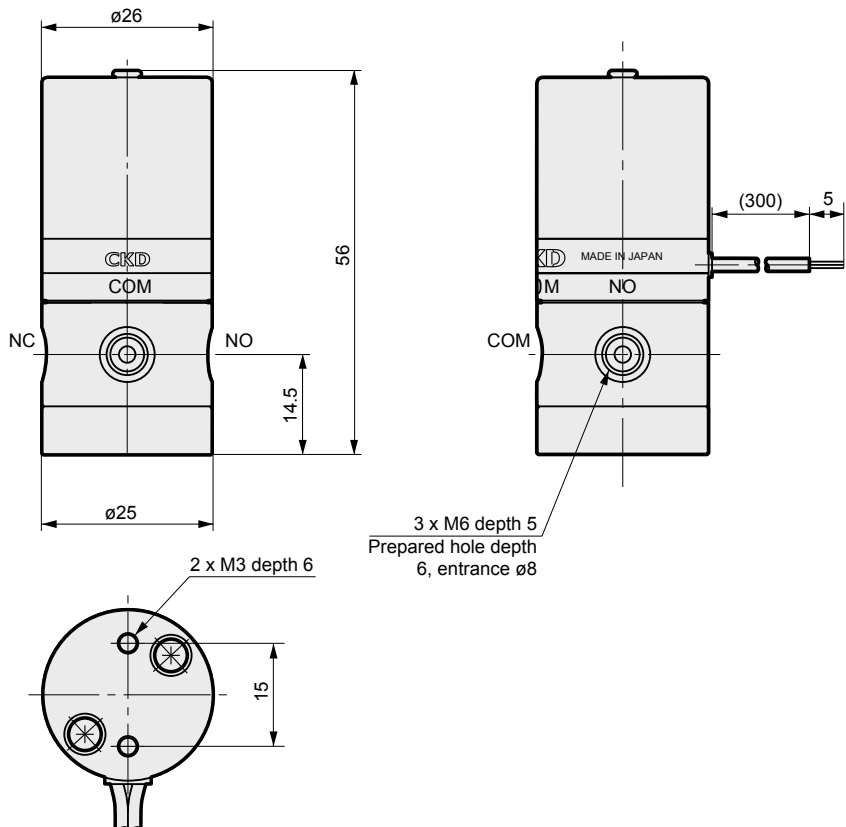
## Dimensions



### ● MYB1-M6



### ● MYG1-M6



EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/ AD
APK/ ADK
DryAir
EX- XPLNprf
XPLNprf
HVB/ HVL
S $\varnothing$ B/ NAB
LAD/ NAD
Water- Rela
NP/NAP/ NVP
SNP
CHB/G
MXB/G
Other valves
SWD/ MWD
DustColl
CVE/ CVSE
CCH/ CPE/D
<b>LifeSci</b>
Gas- Combus
Auto- Water
Outdoor
SpecFld
Custom
Ending



Metal-free 2, 3-port solenoid valve

# MYB2/MYG2 Series

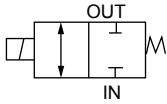
- NC (open when energized), universal
- Working fluid: Water/pure water/chemical liquids
- Port size: Rc1/8



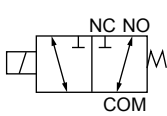
- EXA
- FWD
- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/AD
- APK/ADK
- DryAir
- EX-XPLNprf
- XPLNprf
- HVB/HVL
- S◇B/NAB
- LAD/NAD
- Water-Rela
- NP/NAP/NVP
- SNP
- CHB/G
- MXB/G
- Other valves
- SWD/MWD
- DustColl
- CVE/CVSE
- CCH/CPE/D
- LifeSci
- Gas-Combus
- Auto-Water
- Outdoor
- SpecFld
- Custom
- Ending

## JIS symbol

- MYB2 (2-port)  
: NC (open when energized)



- MYG2 (3-port)  
: Universal



## Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	MYB2-6	MYG2-6							
Working fluid	Water/pure water/chemical liquids (fluids that do not corrode wetted part materials)								
Proof pressure MPa	0.3 (≈44 psi, 3 bar) (water pressure)								
Working pressure MPa	Conditions	Fluid flow direction	Working pressure of each port (MPa)	Conditions	Fluid flow direction	Working pressure of each port (MPa)			
			IN	OUT		COM	NC	NO	
	IN (+) press	IN→OUT	0 to 0.2	0 to 0.1	COM (+) press	COM→NO or NC	0 to 0.2	0 to 0.1	0 to 0.1
	OUT (+) press	OUT→IN	0 to 0.1	0 to 0.1	NC (+) press	NC→COM	0 to 0.1	0 to 0.1	0 to 0.1
	IN (-) press	OUT→IN	-0.05 to 0	-0.05 to 0	NO (+) press	NO→COM	0 to 0.1	0 to 0.1	0 to 0.1
					COM (-) press	NO or NC→COM	-0.05 to 0	-0.05 to 0	-0.05 to 0
Fluid temperature °C	5 (41°F) to 60 (140°F)								
Ambient temperature °C	0 (32°F) to 50 (122°F)								
Atmosphere	No explosive or corrosive atmospheres								
Valve seat leakage cm <sup>3</sup> /min	0 (water pressure)								
Port size	Rc1/8								
Orifice size mm	3.0 or equiv.								
Cv	0.18								
Mounting orientation	Unrestricted								
Weight kg	0.22	0.24							
<b>Electrical specifications</b>									
Rated voltage	24 VDC, 100 VAC(50/60 Hz)								
Voltage fluctuation range	±10%								
Power consumption W	5.5								
Starting current A	1 or less								
Leakage current mA	24 VDC: 1 or less, 100 VAC: 6 or less (*1)								
Thermal class	Class 130 (B)								

\*1 : The leakage current from the control circuit must be equal to or less than the values shown in the table.

\*2 : As this product generates noise from incorporating electronic oscillator circuits, use noise countermeasures on the same power line.

\*3 : After the solenoid valve is completely switched OFF, set an interval of 0.5 seconds or more before switching it ON the next time.

## How to order

**MY B 2 - 6 - DC24V**

**A** Number of ports

**B** Orifice size

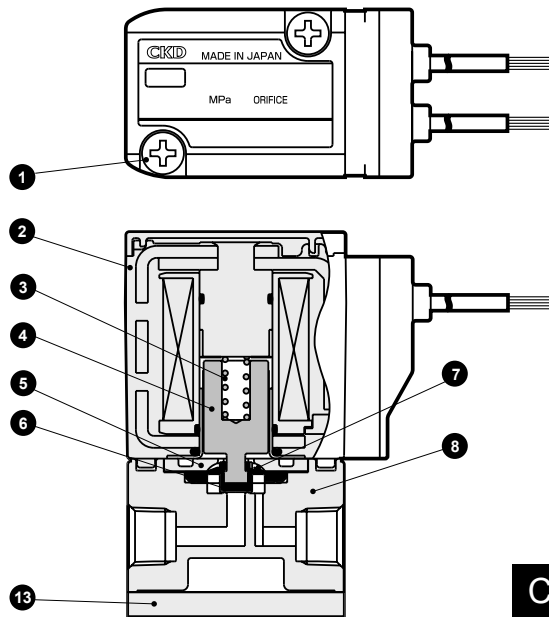
**C** Port size

**D** Rated voltage

Code	Description
<b>A Number of ports</b>	
B	2-port
G	3-port
<b>B Orifice size</b>	
2	ø3
<b>C Port size</b>	
6	Rc1/8
<b>D Rated voltage</b>	
DC24V	24 VDC
AC100V	100 VAC(50/60 Hz)

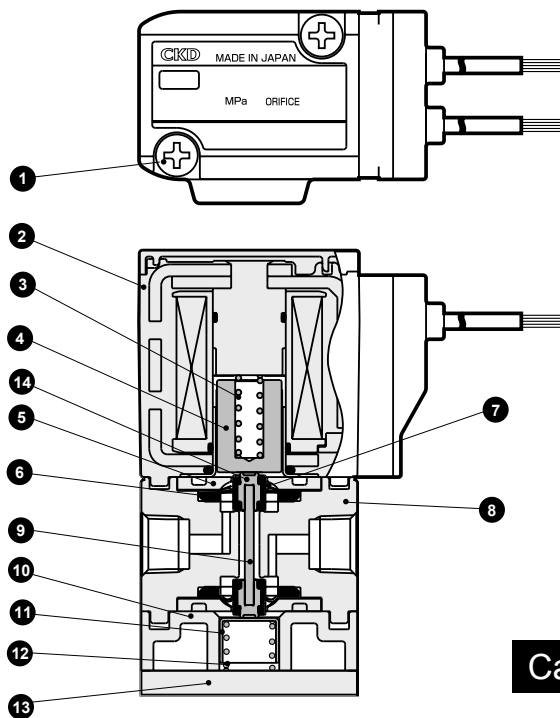
## Internal structure and parts list

### ● MYB2 (2-port valve)



Cannot be disassembled

### ● MYG2 (3-port valve)



Cannot be disassembled

No.	Part name	Material	No.	Part name	Material
1	Cross-recessed pan head machine screw	SUSXM7 ;Stainless steel	8	Body	PPS ;Polyphenylene sulfide
2	Coil assembly	Class B molded coil	9	Rod	Ceramic
3	Spring	SUS304 ;Stainless steel	10	Base	PPS ;Polyphenylene sulfide
4	Plunger	SUS405 or equiv. ;Stainless steel	11	Spring holder	SUS304 ;Stainless steel
5	Diaphragm adaptor	PPS ;Polyphenylene sulfide	12	Spring	SUS304 ;Stainless steel
6	Diaphragm	FKM ;Fluoro rubber	13	Mounting plate	SUS304 ;Stainless steel
7	Protective sheet	PTFE ;Tetrafluoroethylene resin	14	Cap	PPS ;Polyphenylene sulfide

EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/ AD
APK/ ADK
DryAir
EX- XPLNprf
XPLNprf
HVB/ HVL
S ♂ B/ NAB
LAD/ NAD
Water- Rela
NP/NAP/ NVP
SNP
CHB/G
MXB/G
Other valves
SWD/ MWD
DustColl
CVE/ CVSE
CCH/ CPE/D
LifeSci
Gas- Combust
Auto- Water
Outdoor
SpecFld
Custom
Ending

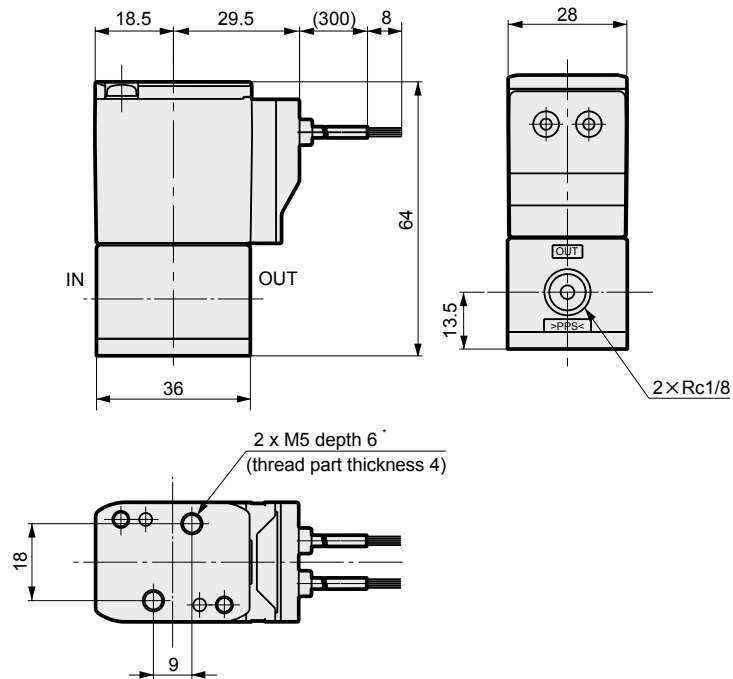
# MYB2/MYG2 Series

## Dimensions

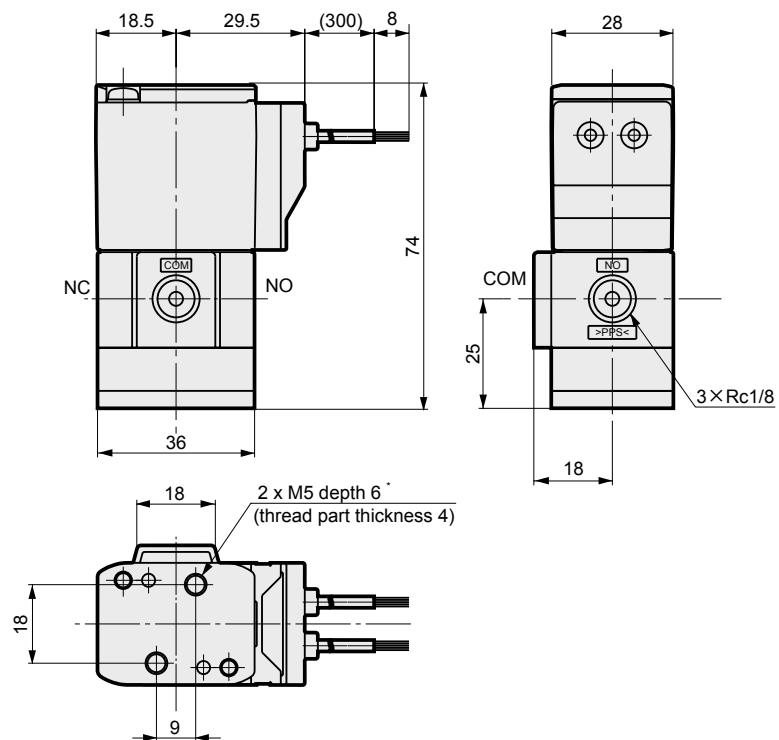


- EXA
- FWD
- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/AD
- APK/ADK
- DryAir
- EX-XPLNprf
- XPLNprf
- HVB/HVL
- S $\diamond$ B/NAB
- LAD/NAD
- Water-Rela
- NP/NAP/NVP
- SNP
- CHB/G
- MXB/G
- Other valves
- SWD/MWD
- DustColl
- CVE/CVSE
- CCH/CPE/D
- LifeSci
- Gas-Combus
- Auto-Water
- Outdoor
- SpecFld
- Custom
- Ending

### ● MYB2 (2-port valve)



### ● MYG2 (3-port valve)



\* When 2 x M5 for mounting is 6 mm or more 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.



Metal-free 2, 3-port solenoid valve

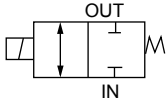
# MYB3/MYG3 Series

- NC (open when energized), universal
- Working fluid: Water/pure water/chemical liquids
- Port size: Rc1/8, Rc1/4, Rc3/8

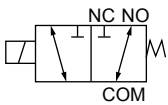


## JIS symbol

- MYB3 (2-port)  
: NC (open when energized)



- MYG3 (3-port)  
: Universal



## Specifications

Item	MYB3	MYG3							
Working fluid	Water/pure water/chemical liquids (fluids that do not corrode wetted part materials)								
Proof pressure MPa	0.3 (≈44 psi, 3 bar) (water pressure)								
Working pressure MPa	Conditions	Fluid flow direction	Working pressure range of each port	Conditions	Fluid flow direction	Working pressure range of each port			
	IN (+) press	IN→OUT	IN	OUT	COM (+) press	COM→NO or NC	COM	NC	NO
	OUT (+) press	OUT→IN	0 to 0.2	0 to 0.1	NC (+) press	NC→COM	0 to 0.2	0 to 0.1	0 to 0.1
	IN (-) press	OUT→IN	0 to 0.1	0 to 0.1	NO (+) press	NO→COM	0 to 0.1	0 to 0.1	0 to 0.1
Fluid temperature °C	5 (41°F) to 60 (140°F)								
Ambient temperature °C	0 (32°F) to 50 (122°F)								
Atmosphere	No explosive or corrosive atmospheres								
Valve seat leakage cm <sup>3</sup> /min	0 (water pressure)								
Port size	Rc1/8, Rc1/4, Rc3/8								
Orifice size mm	5.0 or equiv.								
Cv	0.5								
Mounting orientation	Unrestricted								
Weight kg	0.55	0.6							
<b>Electrical specifications</b>									
Rated voltage	12 VDC/24 VDC/100 VAC(50/60 Hz)								
Voltage fluctuation range	±10%								
Power consumption W	AC	11							
	DC	11.5							
Leakage current mA	2 or less (12 VDC)/1 or less (24 VDC)/2 or less (100 VAC) (*1)								
Thermal class	Class 130 (B)								

\*1 : The leakage current from the control circuit must be equal to or less than the values shown in the table.

## How to order

MY B 3 - 6 - DC12V

A Number of ports

B Orifice size

C Port size

D Rated voltage

Code	Description
A	B 2-port
	G 3-port
B	3 ø5
C	6 Rc1/8
	8 Rc1/4
	10 Rc3/8
D	DC12V 12 VDC
	DC24V 24 VDC
	AC100V 100 VAC(50/60 Hz)

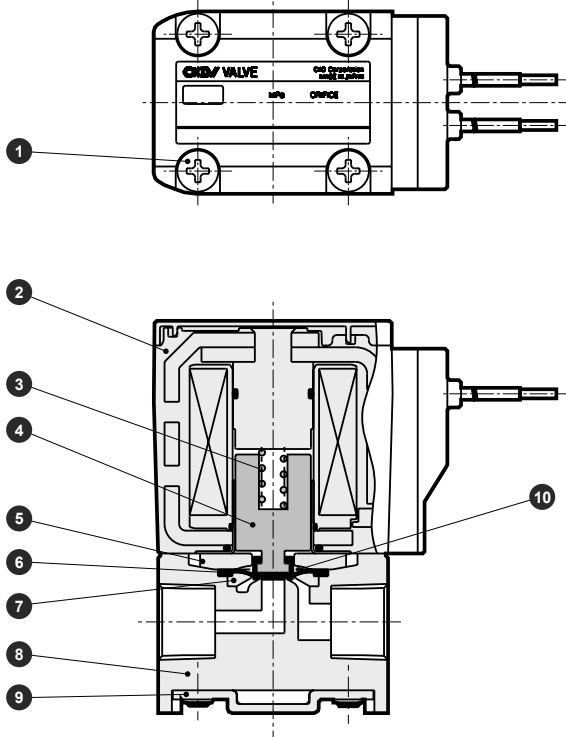
EXA  
FWD  
HNB/G  
USB/G  
FAB/G  
FGB/G  
FVB  
FWB/G  
FHB  
FLB  
AB  
AG  
AP/  
AD  
APK/  
ADK  
DryAir  
EX-  
XPLNprf  
XPLNprf  
HVB/  
HVL  
S ♂ B/  
NAB  
LAD/  
NAD  
Water-  
Rela  
NP/NAP/  
NVP  
SNP  
CHB/G  
MXB/G  
Other  
valves  
SWD/  
MWD  
DustColl  
CVE/  
CVSE  
CCH/  
CPE/D  
LifeSci  
Gas-  
Combustion  
Auto-  
Water  
Outdoor  
SpecFld  
Custom  
Ending

# MYB3/MYG3 Series

## Internal structure and parts list

- EXA
- FWD
- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/AD
- APK/ADK
- DryAir
- EX-XPLNprf
- XPLNprf
- HVB/HVL
- S $\diamond$ B/NAB
- LAD/NAD
- Water-Rela
- NP/NAP/NVP
- SNP
- CHB/G
- MXB/G
- Other valves
- SWD/MWD
- DustColl
- CVE/CVSE
- CCH/CPE/D
- LifeSci
- Gas-Combus
- Auto-Water
- Outdoor
- SpecFld
- Custom
- Ending

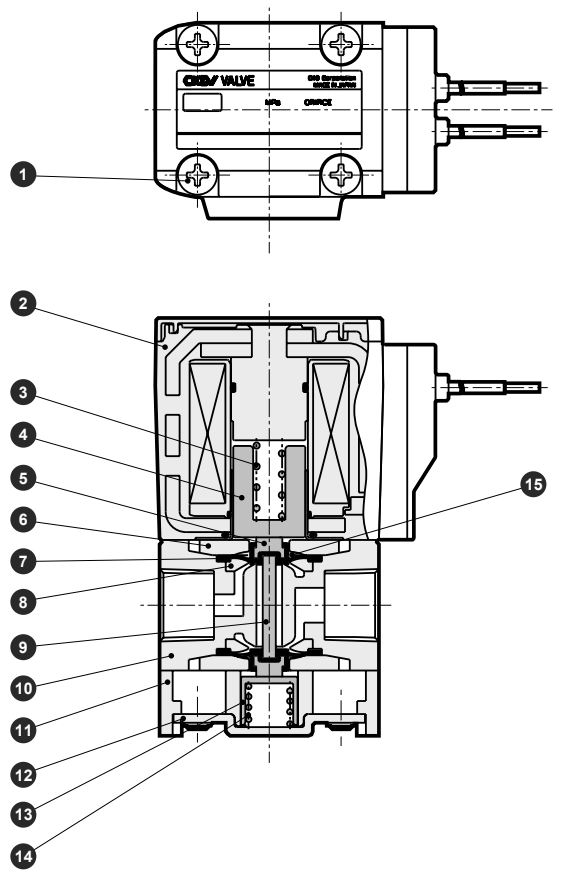
### ● MYB3



**Cannot be disassembled**

No.	Part name	Material
1	Cross-recessed pan head machine screw	SUSXM7 ;Stainless steel
2	Coil assembly	Class B molded coil
3	Spring	SUS304 ;Stainless steel
4	Plunger	SUS405 or equiv. ;Stainless steel
5	Diaphragm adaptor	PPS ;Polyphenylene sulfide
6	Diaphragm	FKM ;Fluoro rubber
7	Diaphragm adaptor	PPS ;Polyphenylene sulfide
8	Body	PPS ;Polyphenylene sulfide
9	Mounting plate	SUS304 ;Stainless steel
10	Protective sheet	PTFE ;Tetrafluoroethylene resin

### ● MYG3



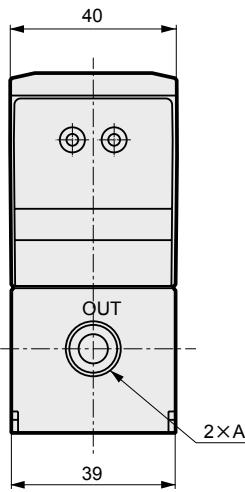
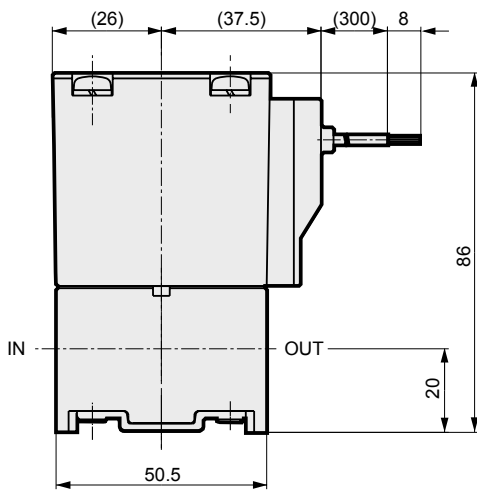
**Cannot be disassembled**

No.	Part name	Material
1	Cross-recessed pan head machine screw	SUSXM7 ;Stainless steel
2	Coil assembly	Class B molded coil
3	Spring	SUS304 ;Stainless steel
4	Plunger	SUS405 or equiv. ;Stainless steel
5	Spacer	PPS ;Polyphenylene sulfide
6	Diaphragm adaptor	PPS ;Polyphenylene sulfide
7	Diaphragm	FKM ;Fluoro rubber
8	Diaphragm adaptor	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	Protective sheet	PTFE ;Tetrafluoroethylene resin

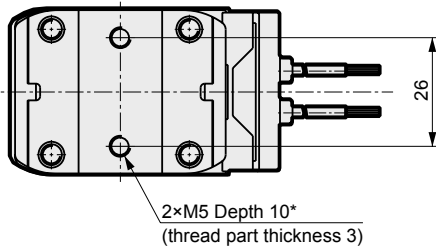
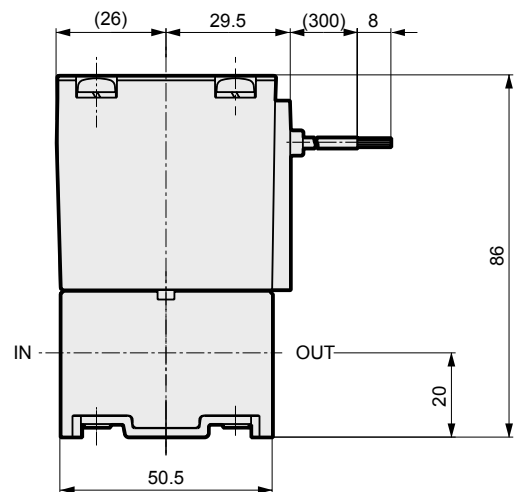


## Dimensions

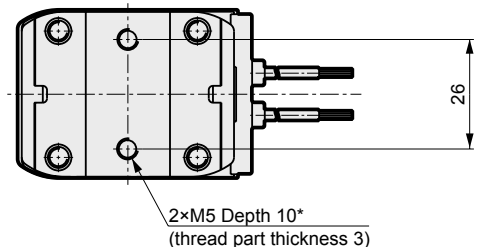
### ● MYB3 [For AC]



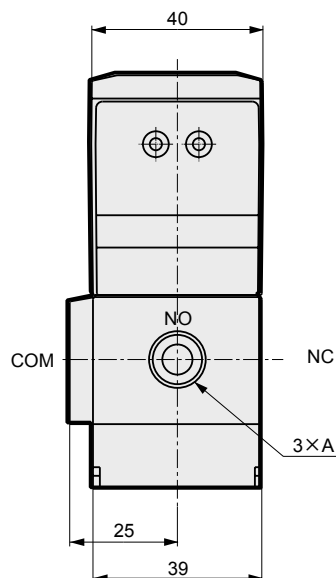
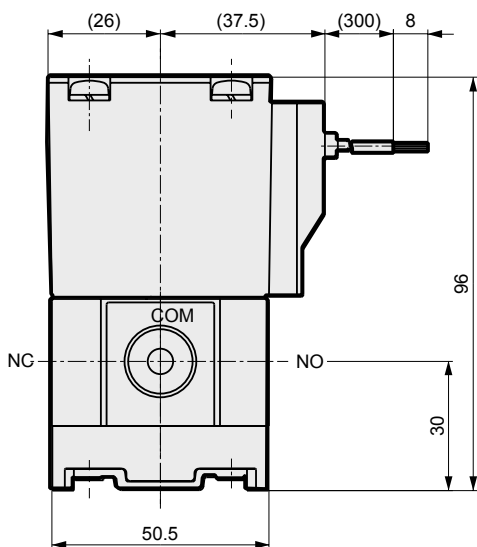
### [For DC]



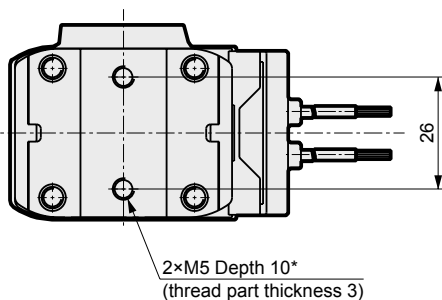
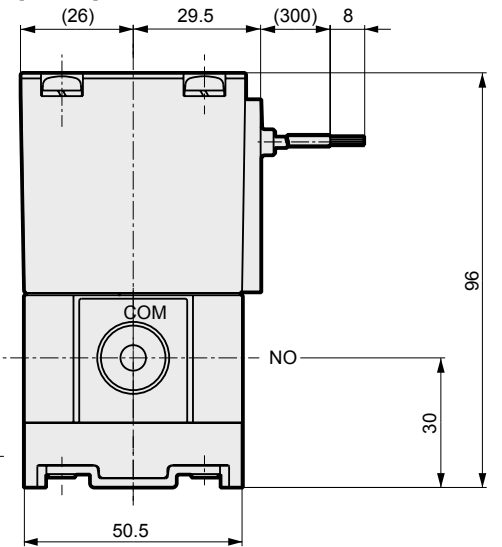
Model No.	A
MYB3-6	Rc1/8
MYB3-8	Rc1/4
MYB3-10	Rc3/8



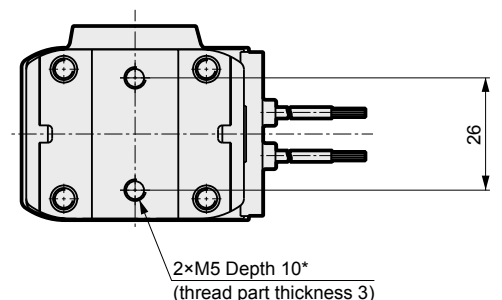
### ● MYG3 [For AC]



### [For DC]



Model No.	A
MYG3-6	Rc1/8
MYG3-8	Rc1/4
MYG3-10	Rc3/8



\* When M5 for mounting is 10 mm or more from the bottom of the mounting plate, the screw cuts into the body or base, leading to cracking. The screw end must be 10 mm or less from the bottom of the mounting plate.

EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/ AD
APK/ ADK
DryAir
EX- XPLNprf
XPLNprf
HVB/ HVL
S ⚡ B/ NAB
LAD/ NAD
Water- Rela
NP/NAP/ NVP
SNP
CHB/G
MXB/G
Other valves
SWD/ MWD
DustColl
CVE/ CVSE
CCH/ CPE/D
LifeSci
Gas- Combustion
Auto- Water
Outdoor
SpecFld
Custom
Ending