

■ MAGD Series is back with a new eco-friendly design!

Specifications



Item	MAGD4-R-0	MAGD4-R-1
Working fluid	Inert gas/process gas	
Working pressure Pa (abs) to MPa (G)	1.3×10 ⁻⁶ to 0.99	1.3×10 ⁻⁶ to 0.7
Operating ambient temperature °C	-10 to 80	
Ambient temperature °C	-10 to 80	
Valve seat leakage Pa m ³ /s.He	1.3×10 ⁻⁹ or less	1.0×10 ⁻¹⁰ or less
External leakage Pa m ³ /s.He	2.8 x 10 ⁻¹² or less	
Cv (23°C, under pressurization)	0.1	0.26
Connection	1.5", W seal (nominal 6.35)	
Operating pressure MPa	NC	0.4 to 0.6
	NO	0.4 to 0.5
Operating port	M5	
Material	Body	SUS316L
	Diaphragm	Ni-Co alloy
	Seat	PCTFE

How to order

MAGD4 - R - 02A - W - 1 2

A Series

B Valve shape

C Seal shape

D Actuation(V1)

E Actuation (V2)

Code	Description
A Series	
MAGD4	Air operated valve for IAGD4
B Valve shape	
01D	1-station block D valve (2-port)
01X	1-station block X valve (3-port)
01Y	1-station block Y valve (3-port)
02A	2-station block A valve (3-port)
11D	1-station block D valve (2-port)
C Seal shape	
W	W seal (nominal 6.35)
D Actuation(V1)	
1	NC
2	NO
3	NC (with proximity sensor (normally closed valve))
4	NO (with proximity sensor (normally open valve))
5	NC (with proximity sensor (normally open valve))
6	NO (with proximity sensor (normally closed valve))
E Actuation(V2)	
1	NC
2	NO
3	NC (with proximity sensor (normally closed valve))
4	NO (with proximity sensor (normally open valve))
5	NC (with proximity sensor (normally open valve))
6	NO (with proximity sensor (normally closed valve))

[Example of model No.]

MAGD4-R-02A-W-12

- A** Series : Air operated valve for IAGD4
- B** Valve shape : 2-station block A valve (3-port)
- C** Seal shape : W seal (nominal 6.35)
- D** Actuation (V1) : NC
- E** Actuation (V2) : NO

*1: Mounting bolt, gasket and air fitting for actuator drive are not attached with the product and must be purchased separately.

*2: Contact CKD for products with mounting bolts.

LGD Series
 AGD/OGD/MGD-R Series
 High durability
 Other valves for process gas
 Regulator
 Integrated gas supply system
 Safety precautions
 Air operated valve
 Manual valve
 Vacuum pressure control valves
 Safety precautions
 Related products

MAGD4 Series

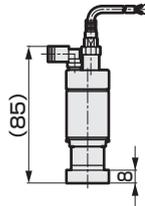
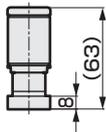
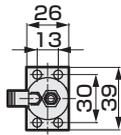
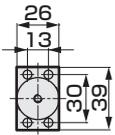
Dimensions

Dimensions

1-station block

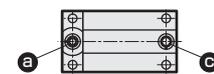
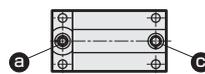
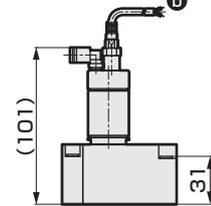
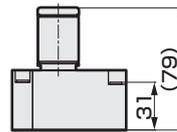
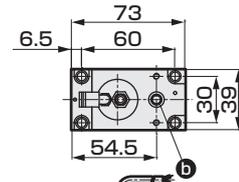
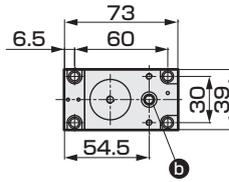
●MAGD4-R-01D

(with proximity sensor)



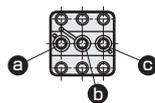
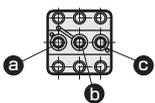
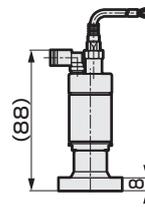
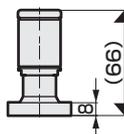
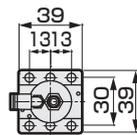
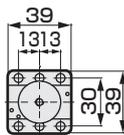
●MAGD4-R-01X

(with proximity sensor)



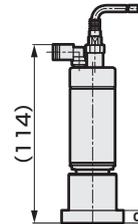
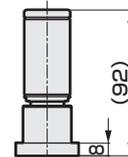
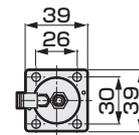
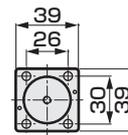
●MAGD4-R-01Y

(with proximity sensor)



●MAGD4-R-11D

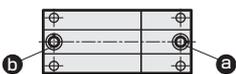
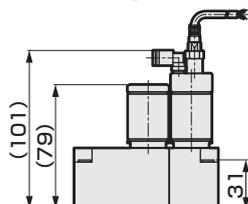
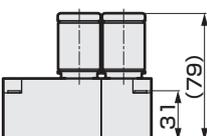
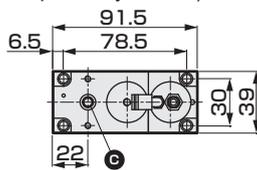
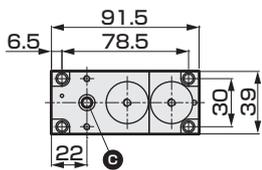
(with proximity sensor)



2-station block

●MAGD4-R-02A

(with proximity sensor)





Specifications

Item	MOGD4-01	MOGD4-11
Working fluid	Inert gas/process gas	
Working pressure Pa(abs)-MPa(G)	1.3 x 10 ⁻⁶ to 0.7	
Fluid temperature °C	-10 to 80	
Ambient temperature °C	-10 to 80	
Valve seat leakage Pa·m ³ /s (He)	1.3 x 10 ⁻⁹ or less	
External leakage Pa·m ³ /s (He)	2.8 x 10 ⁻¹² or less	
Cv	0.1	0.26
Connection	W seal (nominal 6.35)	
Material	Body	SUS316L
	Diaphragm	Ni-Co alloy
	Seat	PCTFE

How to order

MOGD4 - 11D - W - K A - S1

A Series

B Valve shape

C Seal shape

D Handle color

E Other

Code	Description	
A Series		
MOGD4	Manual valve for IAGD4	
B Valve shape		Cv
11D	1-station block D valve (2-port)	0.26
01X	1-station block X valve (3-port)	0.1
C Seal shape		
W	W seal (nominal 6.35)	
D Handle color		
K	Handle color: Black	
R	Handle color: Red	
B	Handle color: Blue	
Y	Handle color: Yellow	
G	Handle color: Green	
E Other		
S1	With handle lock (only when valve is closed)	
Blank	Without key	

*1: Mounting bolt and gasket are not attached with the product and must be purchased separately.
 *2: Contact CKD for products with mounting bolts.

[Example of model No.]

MOGD4-11D-W-KA-S1

- A** Series : Manual valve for IAGD4
- B** Valve shape : 1-station block D valve (2-port)
- C** Seal shape : W seal (nominal 6.35)
- D** Handle color : Black
- E** Other : With handle lock (only when valve is closed)

LGD Series
 AGD/OGD/ MGD-R Series
 High durability
 Other valves for process gas
 Regulator
 Integrated gas supply system
 Safety precautions
 Air operated valve
 Manual valve
 High vacuum components
 Vacuum pressure control valves
 Safety precautions
 Related products

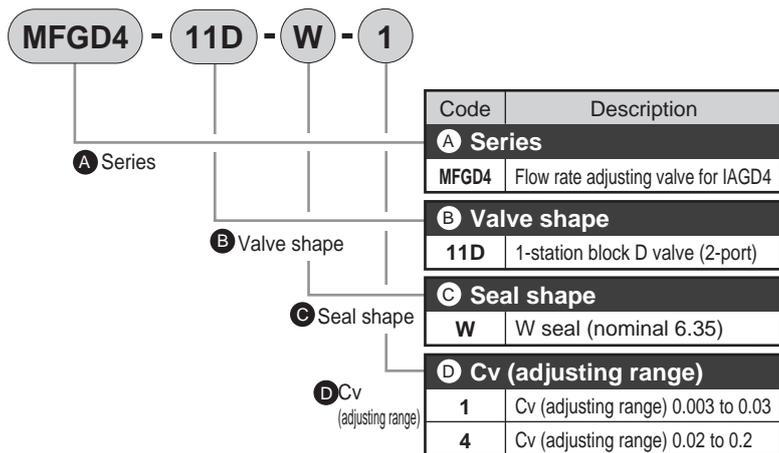
Specifications

Item	MFGD4-11D-W-1	MFGD4-11D-W-4
Working fluid	Inert gas/process gas	
Working pressure Pa(abs)-MPa(G)	1.3 x 10 ⁻⁶ to 0.7	
Fluid temperature °C	-10 to 80	
Ambient temperature °C	-10 to 80	
Valve seat leakage	1/100 or less of max. Cv	
External leakage Pa m3/s (He)	2.8 x 10 ⁻¹² or less	
Cv (adjusting range)	0.003 to 0.03	0.02 to 0.2
Connection	W seal (nominal 6.35)	
Material	Body	SUS316L
	Diaphragm	Ni-Co alloy

* Cover is included with the product.



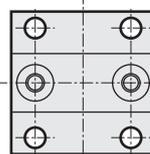
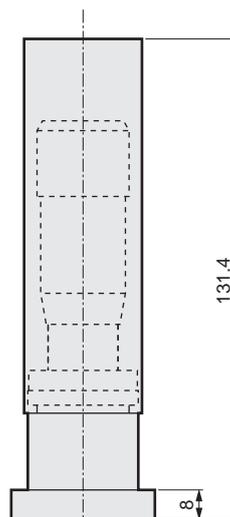
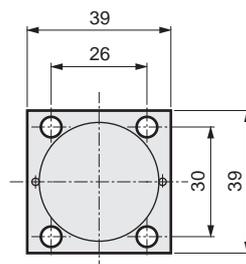
How to order



*1: Mounting bolt and gasket are not attached with the product and must be purchased separately.
 *2: Contact CKD for products with mounting bolts.

Dimensions

● MFGD4



[Example of model No.]

MFGD4-11D-W-1

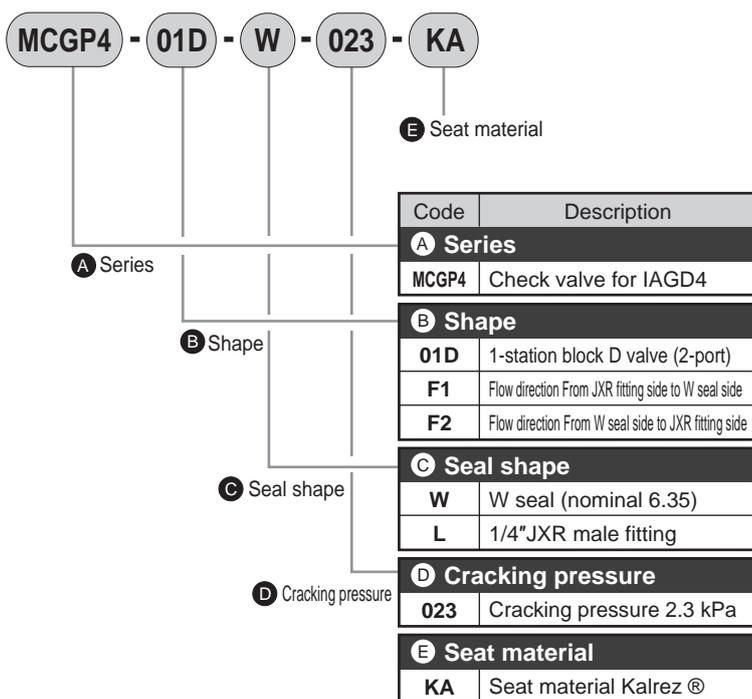
- A Series** : Flow rate adjusting valve for IAGD4
- B Valve shape**: 1-station block D valve (2-port)
- C Seal shape**: W seal (nominal 6.35)
- D Other** : Cv (adjusting range) 0.003 to 0.03



Specifications

Item	MCGP4-01D	MCGP4-F
Working fluid	Inert gas/process gas	
Working pressure Pa(abs)-MPa(G)	1.3 x 10 ⁻⁶ to 0.7	
Fluid temperature °C	-10 to 80	
Ambient temperature °C	-10 to 80	
Valve seat leakage Pa·m ³ /s (He)	4.7 x 10 ⁻⁸ or less	
External leakage Pa·m ³ /s (He)	2.8 x 10 ⁻¹² or less	
Cv (max.)	0.25	
Connection	W seal (nominal 6.35)	
Material	Body	SUS316L
	Seat	Kalrez®
	Spring	SUS316-WPA
	Gasket	PTFE

How to order



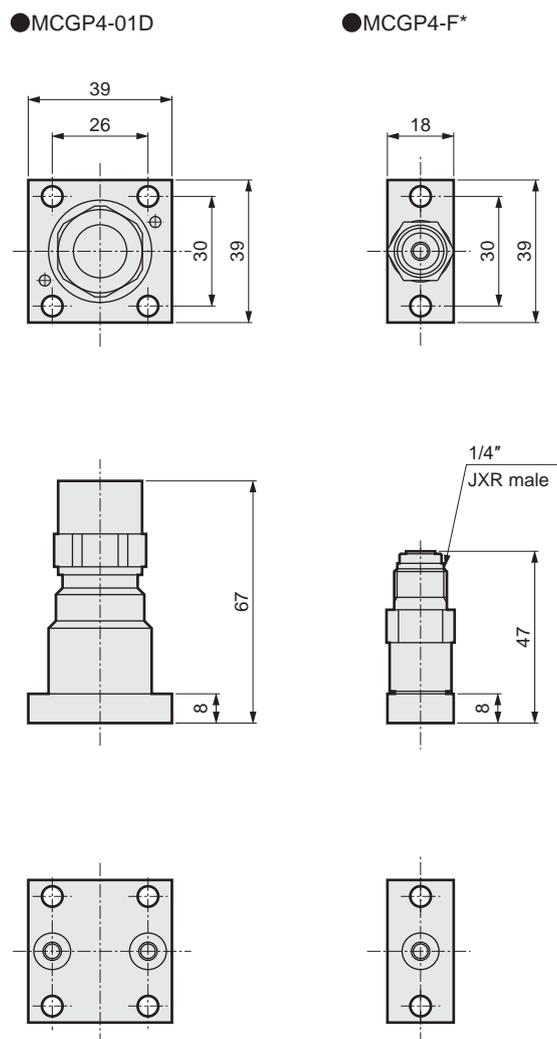
*1: Mounting bolt and gasket are not attached with the product and must be purchased separately.
 *2: Contact CKD for products with mounting bolts.

[Example of model No.]

MCGP4-01D-W-023-KA

- A** Series : ICheck valve for AGD4
- B** Shape : 1-station block D valve (2-port)
- C** Seal shape : W seal (nominal 6.35)
- D** Cracking pressure : 2.3kPa
- E** Seat material : Kalrez®

Dimensions



Kalrez® is a registered trademark of DuPont Corporation.

LGD Series
 AGD/OGD/
 MGD-R Series
 High durability
 Other valves
 for process gas
 Regulator
 Integrated gas
 supply system
 Safety precautions
 Air operated valve
 Manual valve
 High vacuum components
 Vacuum pressure
 control valves
 Safety precautions
 Related products

Gasket

Name	Model No.
W seal gasket (nominal 6.35)	IAGD4-UGF-6.35GR



Mounting bolt for W seal



Name	Model No.	Applicable parts
Hexagon socket head cap screw for W seal (M5 x 5, 12,4 pcs)	IAGD4-BOLT-M5x12-4	MAGD4-R-01D MAGD4-R-11D MOGD4-R-11D MFGD4-11D MCGP4-01D MCGP4-F* Bypass block (for interface pitch 26 mm) Bypass piping block (for MFC interface pitch 79.8 mm) Sealing flange SEC-G111*-W-1.5 (MFC manufactured by Horiba Estek)
Hexagon socket head cap screw for W seal (M5 x 5, 35,4 pcs)	IAGD4-BOLT-M5x35-4	MAGD4-R-01X MAGD4-R-02A MOGD4-R-01X FC-785 (MFC manufactured by Hitachi Metals) FC-786 (MFC manufactured by Hitachi Metals) FC-985 (MFC manufactured by Hitachi Metals)
Hexagon socket head cap screw for W seal (M5 x 5, 40,4 pcs)	IAGD4-BOLT-M5x40-4	SEC-7330*-800A (MFC manufactured by Horiba Estek) SEC-7340*-800A (MFC manufactured by Horiba Estek) SEC-F730*-800A (MFC manufactured by Horiba Estek) SEC-F740*-800A (MFC manufactured by Horiba Estek)
Hexagon socket head cap screw for W seal (M5 x 5, 43,4 pcs)	IAGD4-BOLT-M5x43-4	SEC-7350*-800A (MFC manufactured by Horiba Estek) SEC-F750*-800A (MFC manufactured by Horiba Estek) FC-986 (MFC manufactured by Hitachi Metals)

Contact CKD for details of applicable parts.

Maintenance tools (Torque screwdriver, bit for torque screwdriver, tweezers (gasket installation tool) 1 each)

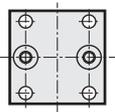
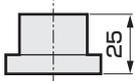
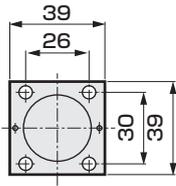
Name	Model No.
Maintenance tool set	IAGD4-MAINTENANCE

Refer to the instruction manual for details of use.

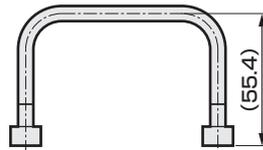
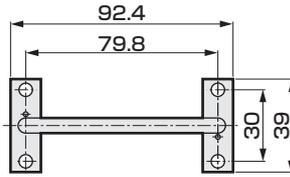


Top mount block

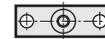
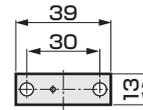
- Bypass block
(for 26 mm pitch between)



- Bypass piping block
(for 79.8 mm pitch between MFC)

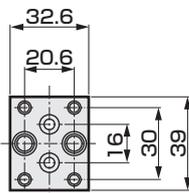


- Sealing flange

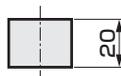
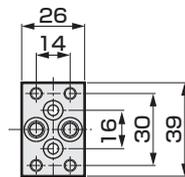


Base block

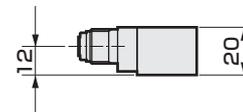
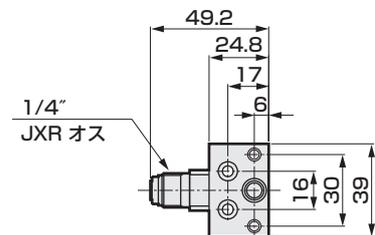
- Base block 1
(20.6 mm between)



- Base block 5
(14.0 mm between)



- 1/4" JXR male flange



LGD Series	AGD/OGD/ MGD-R Series	High durability for process gas	Other valves for process gas	Regulator	Integrated gas supply system	Safety precautions	Air operated valve	Manual valve	Vacuum pressure control valves	Safety precautions	Related products
Components for process gases											
High vacuum components											