Components for integrated gas supply system

Air operated valve for IAGD3

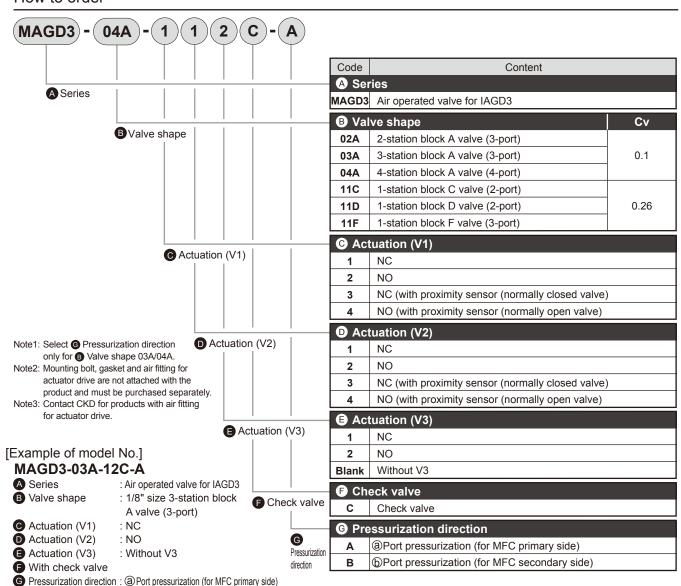
Custom order product



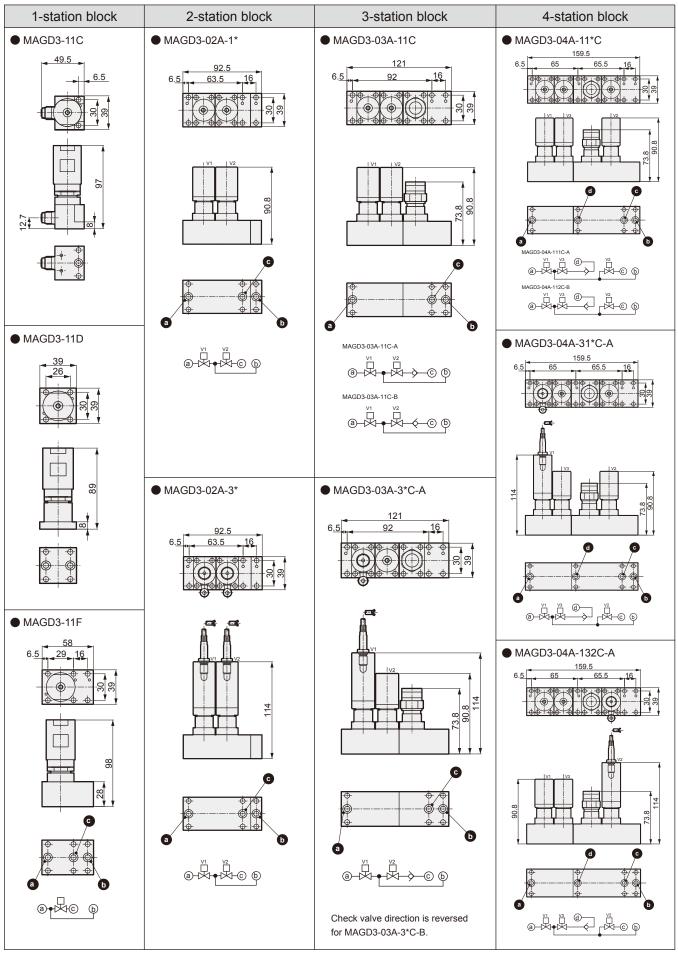
Specifications

Descriptions			MAGD3-0	MAGD3-1	
Working fluid			Inert gas/process gas		
Working pressure Pa(abs)-MPa(G)			1.3 × 10 ⁻⁶ to 0.7		
Fluid temperature °C			-10 to 80		
Ambient temperature °C			-10 to 80		
Valve seat leakage Pa·m³/s (He)			1.3 × 10 ⁻⁹		
External leakage Pa·m³/s (He)			2.8 × 10 ⁻¹²		
Cv			0.1	0.26	
Connection			CS seal (nominal 6.35)		
Operating pressure MPa NO		NC	0.4 to 0.6		
		NO	0.4 to 0.5		
Operating port			M5		
<u>a</u>	Body		SUS316L		
Material	Diaphragm		Ni-Co alloy		
≅	Seat		PCTFE		

How to order



Dimensions



Components for integrated gas supply system Manual valve for IAGD3

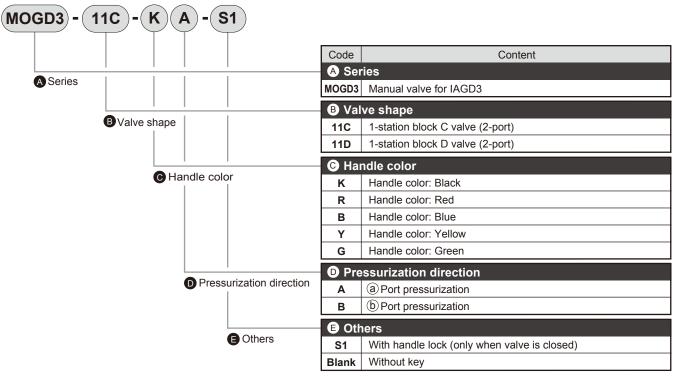
Custom order product



Specifications

Descriptions	MOGD3-11	
Working fluid	Inert gas/process gas	
Working pressure Pa(abs)-MPa(G)	1.3 × 10 ⁶ to 0.7	
Fluid temperature °C	-10 to 80	
Ambient temperature °C	-10 to 80	
Valve seat leakage Pa·m³/s (He)	1.3 × 10°	
External leakage Pa·m³/s (He)	2.8 × 10 ⁻¹²	
Cv	0.26	
Connection	CS seal (nominal 6.35)	
<u>Body</u>	SUS316L	
Body Diaphragm Seat	Ni-Co alloy	
Seat	PCTFE	

How to order



Note1: Mounting bolt and gasket are not attached with the product and must be purchased separately.

[Example of model No.]

MOGD3-11C-KA-S1

A Series : Manual valve for IAGD3
B Valve shape : 1-station block C valve (2-port)

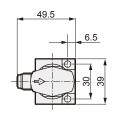
Handle color : Black

Pressurization direction : ⓐ Port pressurization

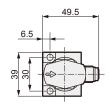
Others : With handle lock (only when valve is closed)

Dimensions

● MOGD3-11C-*A

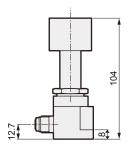


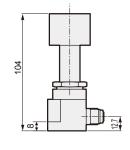
● MOGD3-11C-*B

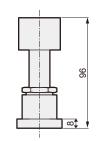


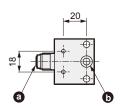
● MOGD3-11D-*A

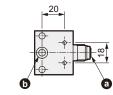










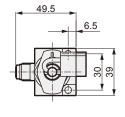


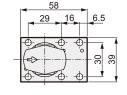


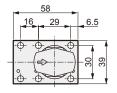
● MOGD3-11C-KA-S1

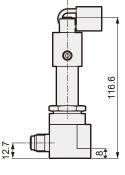


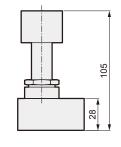


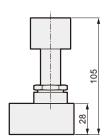


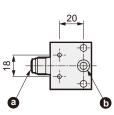


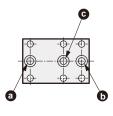


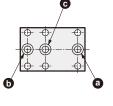
















Components for integrated gas supply system

Flow rate adjusting valve for **IAGD3**

Custom order product

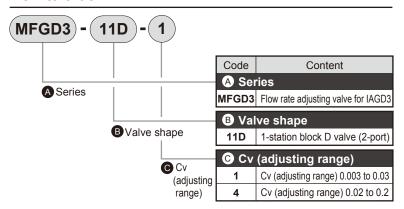


Specifications

Descriptions	MFGD3-11D-1	MFGD3-11D-4	
Working fluid	Inert gas/process gas		
Working pressure Pa(abs)-MPa(G)	1.3 × 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 × 10 ⁻¹²		
Cv (adjusting range)	0.003 to 0.03	0.02 to 0.2	
Connection	CS seal (nominal 6.35)		
Body Diaphragm	SUS316L		
Diaphragm	Ni-Co alloy		

^{*} Cover is included with the product.

How to order



Note: Mounting bolt and gasket are not attached with the product and must be purchased separately.

[Example of model No.]

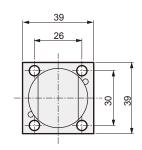
MFGD3-11D-1

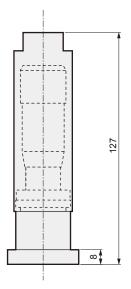
A Series : Flow rate adjusting valve for IAGD3
B Valve shape : 1-station block D valve (2-port)

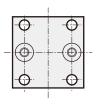
Cv (adjusting range): 0.003 to 0.03

Dimensions

● MFGD3-11D







Components for integrated gas supply system Check valve for IAGD3

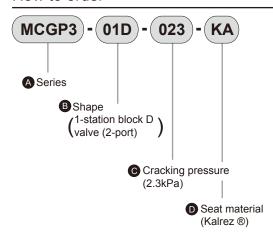
Custom order product



Specifications

Descriptions		MCGP3-01D
Working fluid		Inert gas/process gas
Work	ring pressure Pa(abs)-MPa(G)	1.3 × 10 ⁻⁶ to 0.7
Fluid temperature °C		-10 to 80
Ambient temperature °C		-10 to 80
Valve seat leakage Pa·m³/s (He)		4.7 × 10 ⁻⁸
External leakage Pa·m³/s (He)		2.8 × 10 ⁻¹²
Cv (max.)		0.25
Connection		CS seal (nominal 6.35)
Material	Body	SUS316L
	Seat	Kalrez ®
	Spring	SUS316
	Gasket	PTFE

How to order



Note: Mounting bolt and gasket are not attached with the product and must be purchased separately.

[Example of model No.]

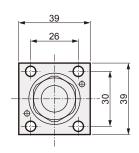
MCGP3-01D-023-KA

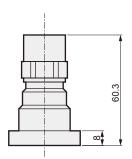
A Series : Check valve for IAGD3
B Shape : 1-station block D valve (2-port)

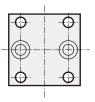
G Cracking pressure : 2.3 kPa
D Seat material : Kalrez ®

Dimensions

MCGP3-01D-023-KA







Integrated Gas System Series IAGD3

Components for integrated gas supply system Other components for IAGD3

Gasket set (2 hexagon socket head cap screws, 1 C ring, 1 gasket retainer)

Material C ring : SUS316L, SUS304-WPB (non-gas contact parts)

Gasket retainer : SUS304

Hexagon socket head cap screw: SCM 435 (special treatment)



9	,	
Name	Model No.	Applicable parts
Gasket set (bolt length 16 mm)	IAGD3-SEAL	MAGD3-11C
		MAGD3-11D
		MOGD3-11C
		MOGD3-11D
		MFGD3-11D
		MCGP3
Gasket set (bolt length 20 mm)	IAGD3-SEAL-L20	
Gasket set (bolt length 30 mm)	IAGD3-SEAL-L30	
Gasket set (bolt length 35 mm)	IAGD3-SEAL-L35	MAGD3-11F
		MAGD3-02A
		MOGD3-03A
		MOGD3-04A
		Bypass block (for interface pitch 26 mm)
		Bypass piping block (for MFC interface pitch 79.8 mm)
		Sealing flange
		SEC-7330*-*-792B (MFC manufactured by STEC)
		SEC-7340*-*-792B (MFC manufactured by STEC)
		SEC-F730*-*-792B (MFC manufactured by STEC)
		SEC-F740*-*-792B (MFC manufactured by STEC)
		SEC-4400-792B (MFC manufactured by STEC)
		FC-785X*B (MFC manufactured by Hitachi Metals)
		FC-795*T-B (MFC manufactured by Hitachi Metals)
		FC-D985*T-B1 (MFC manufactured by Hitachi Metals)
		FC-D985*Y-B1 (MFC manufactured by Hitachi Metals)
		FC-985*T-B1 (MFC manufactured by Hitachi Metals)
		FC-985*Y-B1 (MFC manufactured by Hitachi Metals)
Gasket set (bolt length 40 mm)	IAGD3-SEAL-L40	FC-2979 (MFC manufactured by CELERITY)
,		SEC-7350*-*-792B (MFC manufactured by STEC)
		SEC-7355*-*-792B (MFC manufactured by STEC)
		SEC-F750*-*-792B (MFC manufactured by STEC)
Gasket set (bolt length 45 mm)	IAGD3-SEAL-L45	FC-785*T-B (MFC manufactured by Hitachi Metals)
,		FC-785*Y-B (MFC manufactured by Hitachi Metals)
		FC-786*T-B (MFC manufactured by Hitachi Metals)
		FC-786*Y-B (MFC manufactured by Hitachi Metals)
		FC-796*T-B1 (MFC manufactured by Hitachi Metals)
		FC-D986*Y-B1 (MFC manufactured by Hitachi Metals)
		FC-986*T-B1 (MFC manufactured by Hitachi Metals)
		FC-986*Y-B1 (MFC manufactured by Hitachi Metals)
		,

Note1: The number of gasket sets required is determined by the number of CS seal parts.

Note2: Contact CKD for details of applicable parts.

Maintenance tools (Installer set, torque wrench, Allen wrench bit (with magnet))

,	,
Name	Model No.
Maintenance tool set	IAGD3-MAINTENANCE

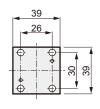
Refer to the instruction manual for details of use.



Other components

Top mount block

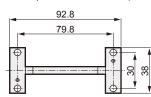
Bypass block (for 26 mm pitch between)







Bypass piping block (for 79.8 mm pitch between MFC)







Sealing flange

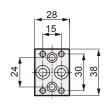






Base block

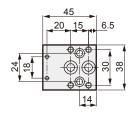
Mount base B-1







Mount base E-5







Mount base F-1

