

Discrete master valve, manifold (metal base) Sub-base porting

4GB1/2/3 Series

● Applicable cylinder bore size: $\varnothing 20$ to $\varnothing 100$



Common specifications

Descriptions	
Type of valve and operation method	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	0.7
Min. working pressure Note 1 MPa	Refer to main pressure in the table below.
Withstanding pressure MPa	1.05
Ambient temperature °C	-5 to 55 (no freezing)
Fluid temperature °C	5 to 55
Manual override	Non-locking/locking common type
Pilot exhaust method (manual override)	Main valve, pilot operated valve common exhaust type
Lubrication Note 2	Not required
Protective structure Note 3	Dust proof
Vibration/impact m/s ²	50 or less / 300 or less
Working environment	Containing corrosive gas is impermissible.

Note 1: The pressure below must be supplied to the P port when using manual override.

2-position 0.1MPa or more
3-position 0.2MPa or more

Note 2: Use the turbine oil Class 1 ISO VG32 if lubricated.

Excessive or intermittent lubrication results in instable operation.

Note 3: Check that water drops or oil, etc., do not come into contact.

Each model's specifications

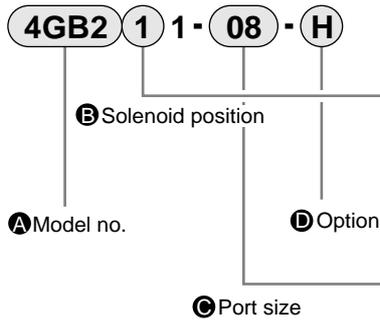
Sub-base porting (discrete, manifold)

Port No.	Model no.		Solenoid position	Pilot port PA/PB	Main pressure	Pilot signal pressure MPa	Other specifications page Note
	Discrete	Manifold					
5 port	4GB111	M4GB111	2-position single	M5	0.2 to 0.7	(0.6 x main pressure + 0.06) to 0.7	Discrete: Page 130 Manifold: Page 172
	4GB121	M4GB121	2-position double		0 to 0.7	0.2 to 0.7	
	4GB131	M4GB131	3-position		0.2 to 0.7	(0.6 x main pressure + 0.06) to 0.7	
	4GB211	M4GB211	2-position single	M5	0.2 to 0.7	(0.6 x main pressure + 0.06) to 0.7	
	4GB221	M4GB221	2-position double		0 to 0.7	0.2 to 0.7	
	4GB231	M4GB231	3-position		0.2 to 0.7	(0.6 x main pressure + 0.06) to 0.7	
	4GB311	M4GB311	2-position single	M5	0.2 to 0.7	(0.6 x main pressure + 0.06) to 0.7	
	4GB321	M4GB321	2-position double		0 to 0.7	0.2 to 0.7	
	4GB331	M4GB331	3-position		0.2 to 0.7	(0.6 x main pressure + 0.06) to 0.7	

Note: Other specifications are common with 4G series. Refer to pages of each specifications.

How to order

Discrete master valve



Note on model no. selection

Note 1 The check valve specifications (H) are not available for the 3-position all ports closed or P/A/B connection. Refer to page 382 for details on the check valve.

		A Model no.		
		4GB1	4GB2	4GB3
Symbol	Descriptions			
B Solenoid position				
1	2-position single	●	●	●
2	2-position double	●	●	●
3	3-position all ports closed	●	●	●
4	3-position A/B/R connection	●	●	●
5	3-position P/A/B connection	●	●	●
C Port size				
Port	A/B port	P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8		
06	Rc1/8	(2)		
08	Rc1/4		(3)	(3)
10	Rc3/8			(4)
D Option				
Blank	None	●	●	●
H	Check valve	●	●	●
A	Ozone and coolant proof	●	●	●
F	P/A/B port filter integrated	●	●	●
is not available.				

MN3E0

MN4E0

4GA/B

M4GA/B

MN4GA/B

4GA/B
(Master)

W4GA/B2

W4GB4

MN3S0
MN4S0

4TB

4L2-4/
LMF0

4SA/B0

4SA/B1

4KA/B

4F

PV5G/
CMFPV5/
CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/
NVP

4F*0E

HMV
HSV2QV
3QV

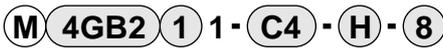
SKH

PCD/
FS/FD

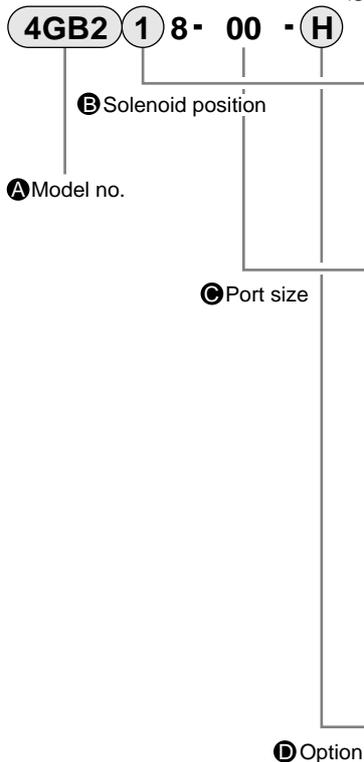
Ending

Master valve
3, 5 port pilot operated valve

Manifold



Discrete master valve for manifold (gasket, set screw attached)



Note on model no. selection

Note 1: The check valve specifications (H) are not available for the 3-position all ports closed or P/A/B connection. Refer to page 382 for details on the check valve.

Note 2: Specify the spacer mounting location and quantity in manifold specifications. Refer to pages 234 to 236 for details.

Note 3: Cannot be selected for discrete master valves for manifolds.

		A Model no.		
		4GB1	4GB2	4GB3
Symbol	Descriptions			
B Solenoid position				
1	2-position single	●	●	●
2	2-position double	●	●	●
3	3-position all ports closed	●	●	●
4	3-position A/B/R connection	●	●	●
5	3-position P/A/B connection	●	●	●
C Port size				
Port	A/B port	P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8		
C4	ø4 push-in joint	(2)	(3)	
C6	ø6 push-in joint	(2)	(3)	(4)
C8	ø8 push-in joint		(3)	(4)
C10	ø10 push-in joint			(4)
CL4	ø4 push-in joint L type (upward)	(2)		
CL6	ø6 push-in joint L type (upward)	(2)	(3)	
CL8	ø8 push-in joint L type (upward)		(3)	(4)
CL10	ø10 push-in joint			(4)
CX	Push-in joint mix	(2)	(3)	(4)
M5	M5	(2)		
06	Rc1/8		(3)	
08	Rc1/4			(4)
D Option				
Blank	None	●	●	●
H	Check valve	●	●	●
A	Ozone and coolant proof	●	●	●
F	A/B port filter integrated (P port: provided as standard)	●	●	●
Z1	Air supply spacer	●	●	●
Z2	In stop valve spacer	●	●	●
E Station number				
2	2 stations	●	●	●
to	to	●	●	●
20	Refer to page 172 for max. station number.	●	●	●
is not available.				