

W4GB4

MN3S0 MN4S0

4TB

4L2-4/ LMF0 4SA/B0

4SA/B1

4KA/B

4F

PV5G/ CMF PV5/ CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/ NVP

4F\*0E

HMV HSV

2QV

3QV

SKH

PCD/ FS/FD



Discrete valve ISO size 1 DIN terminal box type 5 port pilot operated valve ISO conformed valve



Applicable cylinder bore size: Max. ø100

Refer to Intro 17 for details.



# JIS symbol

5 port valve2-position single solenoid (FG-S)

2-position double solenoid (FG-D)

3-position all ports closed (FHG)

3-position all ports closed non-leak type (FPG)

3-position A/B/R connection (FJG)

3-position P/A/B connection (FIG)

2-position single solenoid exhaust pressurization type (YZ-S)

2-position double solenoid exhaust pressurization type (YZ-D)

## Common specifications

	Descriptions						
<b>у</b> Т	ype of valve and operator	Pilot operated soft spool valve					
V	Vorking fluid	Compressed air					
Μ	lax. working pressure MPa	1.0					
Μ	lin. working pressure MPa	0.15 0.20 (3-position) Note 1					
) W	/ithstanding pressure MPa	1.50					
Â	mbient temperature °C	-5 to 60 (no freezing)					
F	luid temperature °C	5 to 60					
L	ubrication	Not required					
P	Protective structure	Dust proof, jet-proof (IP65 or equivalent)					
) L	.eakage cm <sup>3</sup> /min.	10 (ANR) or less					
(/	A, B → R port)	3-position all ports closed non-leak type only 0.3 (ANR) or less Note 2					
V	ibration/impact m/s <sup>2</sup>	50 or less / 300 or less					
V	Vorking environment	Use in the environment containing corrosive gas is not permissible.					
N	Note 1: Use the supply pressure at R1 > R2 $\ge$ 0.15 MPa only for YZ-S.						

Note 1: Use the supply pressure at R1 > R2  $\geq$  0.15 MPa only for YZ-S.

Note 2: Indicates the default.

### **Electric specifications**

Descriptions					
Rated voltage	AC		100 (50 / 60 Hz)		
V			110 (50 / 60 Hz)		
v	DC		12, 24		
Rated voltage f	ated voltage fluctuation range		±10%		
			Without light	With light	
Apparent power VA	AC	100 V	2.3 (0.023)	2.4 (0.024)	
(Ampere A) Note 3		110 V	2.5 (0.023)	2.6 (0.024)	
Power consumption_W	DC	12 V	1.0 (0.083)	1.2 (0.100)	
(Ampere A)		24 V	1.0 (0.042)	1.2 (0.050)	
Heat proof class			B (molded coil)		
Wiring methods			Electric plug connector		

Note 3: The AC type current is the holding current.

# Individual specifications

Descriptions			PV5G-6		
Port size Note 1			Rc1/4	Rc3/8	
Response	2-position	Single solenoid	30 (when ON),	40 (when OFF)	
time ms	2-200011	Double solenoid	30		
Note 2	2 3-position		30 (when ON), 50 (when neutral)		
Weight	2-position	Single solenoid	0.40		
kg	2-200011	Double solenoid	0.4	44	
Note 3	3-position	Other than non-leak type	0.4	48	
		All ports closed non-leak type	1.1	14	

Note 1: G threads and NPT threads are available for the piping port threads. Contact CKD for information.

Note 2: Response time is the value at an air supply of 0.5 MPa, and oil-free. The value will change based on quality of pressure and oil. Note 3: Weight does not include the sub-plate.

# PV5G-6 Series

### Discrete valve: ISO size 1

### **Flow characteristics**

Flow characteristics						MN3E0 MN4E0	
		Solenoid position	$P \rightarrow$	$P \to A/B$		$A/B \rightarrow R1/R2$	
Model no.	Port size		C (dm³/ (s⋅bar))	b	C (dm³/ (s⋅bar))	b	4GA/B
		2-position single solenoid	6.1	0.28	6.7	0.20	
		2-position double solenoid	6.1	0.28	6.7	0.20	M4GA/B
	Rc1/4	3-position all ports closed	5.2	0.32	5.6	0.30	
PV5G-6		3-position A/B/R connection	5.1	0.32	6.9	0.16	
		3-position P/A/B connection	6.3	0.28	5.9	0.28	4GA/B
		3-position all ports closed non-leak	3.4	-	3.0	-	(Master)
	•		· · ·				

Note 1: Effective sectional area S and sonic conductance C are converted as S  $\doteqdot$  5.0 × C.

# Coolant proof specifications

Can be selected with "D" option "A" in How to Order on page 984.

#### PV5G-6 Series Discrete valve: ISO size 1 How to order DIN terminal box type MN3E0 ISO size 1 MN4E0 PV5G)-(6)-(FG-S)-(3)-(N)(-(A03) 4GA/B M4GA/B Model no. MN4GA/B ISO size 1 4GA/B (Master W4GA/B2 Model no. Symbol Descriptions PV5G-6 W4GB4 A Solenoid position A Solenoid position FG-S 2-position single solenoid • MN3S0 MN4S0 FG-D 2-position double solenoid FHG-D P pressurization 3-position all ports closed • 4TB type 3-position A/B/R connection FJG-D 4L2-4/ FIG-D 3-position P/A/B connection • LMF0 FPG-D 3-position all ports closed non-leak • 4SA/B0 YZ-S Exhaust 2-position single solenoid YZ-D pressurization type 2-position double solenoid • 4SA/B1 B Rated voltage B Rated voltage 4KA/B 100 VAC 1 • 3 24 VDC • 4F 12 VDC 4 • PV5G/ CMF 5 110 VAC • C Light and surge suppressor C Light and PV5/ Blank None • surge suppressor CMF Ν With light / surge suppressor Note 1 • 3MA/B0 D Option DOption Blank None • 3PA/B A Note on model no. selection Coolant proof Δ Note 1: Refer to page 978 for the circuit diagram of P/M/B Sub-plate and port size the type with indicator light and surge Sub-plate Blank Without sub-plate NP/NAP/ and port size suppressor. NVP A02 Side porting Rc1/4 (Rc3/8 for R port) <Example of model number> A03 Side porting Rc3/8 0 4F\*0E PV5G-6-FG-S-3-N-A03 Back porting Rc1/4 (Rc3/8 for R port) B02 Model: PV5G/ISO size 1 (DIN terminal box type) HMV B03 Back porting Rc3/8 : P pressurization type 2-position A Solenoid position HSV single solenoid 2QV **B**Rated voltage : 24 VDC 3QV OPower indicator light : With light and surge suppressor SKH DOption : None : Side porting Rc3/8 Sub-plate port size

Ending ISO size 1 Sub-plate specifications and how to order

<u>CB1</u> )-( <u>A02</u> )	Symbol Method P/A/B port   A Port connection			R1/R2 port	Weight (kg)
A Port connection	A02	Side	Rc1/4	Rc3/8	
	A03	porting	Rc3/8		0.36
	B02	Back	Rc1/4		0.30
	B03	porting	Rc3/8	Rc3/8	

PCD/ FS/FD