Single unit

Pilot operated 2, 3, 5-port miniature pneumatic valve

## P/M/B Series

Cylinder bore size: φ6 to φ16



Refer to the Ending for details.





### JIS symbol

2-port valve

4GA/B

M4GA/B MN4GA/B

4GA/B

(mastr) 4GD/E

M4GD/E

MN4GD/E 4GA4/B4 MN3E

MN4E

W4GA/B2 W4GB4 4TB

4L2-4/

LMF0

MN3S0 MN4S0 4SA/B0 4KA/B

4KA/B

(mastr)

(mastr)

PV5G GMF

PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B

P/M/B NP/NAP/

4F\*0EX 4F\*0E HMV HSV 2QV 3QV

SKH

**PCD** 

Silencer

TotAirSys (Total Air)

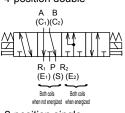
TotAirSys



3-port valve



5-port valve4-position double



2-position single



### Common specifications

Descriptions	Content
Valve and operation	Pilot operated poppet valve
Working fluid	Compressed air (low vacuum)
Max. working pressure MPa	Refer to Individual specifications listed below
Min. working pressure MPa	Refer to Individual specifications listed below
Proof pressure MPa	Refer to Individual specifications listed below
Ambient temperature °C	-10 (14°F) to 50 (122°F) (no freezing)
Fluid temperature °C	5 (41°F) to 50 (122°F)
Lubrication	Not required
Degree of protection	Dust-proof
Vibration resistance m/s <sup>2</sup>	50 or less
Shock resistance m/s <sup>2</sup>	300 or less
Atmosphere	Cannot be used in corrosive gas environment.

### Electrical specifications

Descrip	tion	s	Content
Rated voltage	AC		100, 200 (50/60 Hz)
V	DC		12, 24
Voltage fluo	tuati	on range	±10%
Starting	۸.	100 V	0.056 / 0.044
Starting	AC	200 V	0.034 / 0.026
current	DC	12 V	0.150
А	DC	24 V	0.075
Llolding		100 V	0.028 / 0.022
Holding		200 V	0.017 / 0.013
current	D0	12 V	0.150
А	DC	24 V	0.075
Power consumption	۸.	100 V	1.8 / 1.4 (2.0/1.6)
( ):With	AC	200 V	2.1 / 1.6 (2.3/1.8)
indicator	DC	12 V	1.8(2.0)
lamp	טט	24 V	1.8(2.0)
Thermal of	class	;	B (molded coil)
Temperat	ure i	rise °C	45 (113°F)

Reference: 100 VAC 50/60 Hz can be used with a rated voltage of 110 VAC 60 Hz and 200 VAC 50/60 Hz can be used with 220 VAC 60 Hz.

### Individual specifications (2-port valve)

2-port valve									
P5122	M5122	B5122	P5126	B5126					
1.0	(≈150 psi, 10 l	oar)	0.6 (≈87 psi, 6 bar) *2						
0.	1 (≈15 psi, 1 ba	ar)	0.1 (≈15 psi, 1 bar) *2						
1.5	(≈220 psi, 15 b	oar)	1.5 (≈220 psi, 15 bar)						
-	N	15	-	N	15				
	30 or less			30 or less					
4	47 93			47 9					
	1.0 0. 1.5	1.0 (≈150 psi, 10 to 0.1 (≈15 psi, 10 to 1.5 (≈220 psi, 15 to 1.5 (≈220 psi, 15 to 1.5 to 1.	P5122 M5122 B5122  1.0 (≈150 psi, 10 bar)  0.1 (≈15 psi, 1 bar)  1.5 (≈220 psi, 15 bar)  - M5  30 or less	P5122     M5122     B5122     P5126       1.0 (≈150 psi, 10 bar)     0.6 (≈87 p       0.1 (≈15 psi, 1 bar)     0.1 (≈15 p       1.5 (≈220 psi, 15 bar)     1.5       -     M5       30 or less	P5122         M5122         B5122         P5126         M5126           1.0 (≈150 psi, 10 bar)         0.6 (≈87 psi, 6 bar)         0.1 (≈15 psi, 1 bar)           0.1 (≈15 psi, 1 bar)         0.1 (≈15 psi, 1 bar)         1.5 (≈220 psi, 15 bar)           -         M5         -         M           30 or less         30 or less         30 or less				

### Individual specifications (3, 5-port valve)

1 MPa ≈ 145.0 psi,	1 MPa = 10 ba
--------------------	---------------

Descriptions	3-port valve						5-port valve				
Descriptions	P5132	M5132	B5132	P5136	M5136	B5136	W2P5132	W2P5136	P5142	B5142	
Max. working pressure MPa	1.0 (≈1	50 psi,	10 bar)	0.6 (≈	87 psi,	6 bar)	1.0	0.6	0.70 (≈100	psi, 7 bar)	
Min. working pressure MPa	0.1 (≈	15 psi,	1 bar)	0.1 (≈1	5 psi, 1	bar) *2	0.1 (≈15 բ	osi, 1 bar)	0.15 (≈22 p	si, 1.5 bar)	
Proof pressure MPa	1.5 (≈2	20 psi,	15 bar)	1.5 (≈2	20 psi,	15 bar)	1.5 (≈220 բ	osi, 15 bar)	1.05 (≈150 p	si, 10.5 bar)	
Port size	-	M	15	-	N	15	M	15	-	M5	
Response time *1 ms			30 oı	less				60 oı	r less		
Weight g	4	7	93	4	7	93	18	36	68	118	

<sup>\*1:</sup> The response time is the value at 0.5 MPa supply pressure, with no lubrication, and with the power ON. It depends on the pressure and the lubricant quality

### Copper and PTFE free specifications

• Copper- and PTFE-based materials are not used in the flow path.

(Gamma) Ending

**CKD** 

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<sup>\*2:</sup> When specifying the pressure classification V (for low pressure, for low vacuum pressure), the units can be used with low pressure (0 to 0.29 MPa) or low vacuum (3.3 to 101.00 kPa (abs) {25 to 760 Torr}).

## P/M/B Series

### Single valve; 2, 3, 5-port valve

### Flow characteristics

Model No.	Solenoid position	Port size	C[dm³/(s·bar)]	b		
P5122		-				
M5122	] [	M5	0.10	0.13		
B5122	2-port	IVIO				
P5126	[ 2-μοιτ	-				
M5126		M5	0.15	0.14		
B5126		IVIO				

Model No	Solenoid		P-	<b>→</b> B	B→R			
Model No.	position	Port size	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b		
P5132		-						
M5132		NAC	0.10	0.13	0.15	0.17		
B5132	2 nort	M5						
P5136	3-port	-						
M5136		M5	0.15	0.14	0.15	0.20		
B5136		CIVI						

Model No.	Solenoid	Port size	P→	A/B	A/B→	R1/R2
wodei No.	position	Port Size	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b
W2P5132		M5	0.12	0.13	0.15	0.20
W2P5136	E nort	CIVI	0.15	0.07	0.15	0.24
P5142	5-port	-	0.09	0.21	0.11	0.24
B5142		M5	0.09	0.21	0.11	0.24

<sup>\*1:</sup> Effective cross-sectional area S and sonic conductance C are converted as S  $\approx$  5.0 x C.

4GA/B M4GA/B MN4GA/B 4GA/B (mastr)

4GD/E

M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2

W4GB4 4TB

4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B

(mastr)

4F

(mastr)
PV5G
GMF
PV5
GMF

PV5S-0

3QR 3QB

MV3QR 3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F\*0EX

4F\*0E

HMV HSV 2QV 3QV

SKH

PCD

Silencer TotAirSys (Total Air) TotAirSys (Gamma)

## P/M/B Series

4TB

4F

**GMF** 

P\/5

GMF

3QR

3QB

NVP

HMV HSV

2QV

3QV

Silencer

TotAirSvs

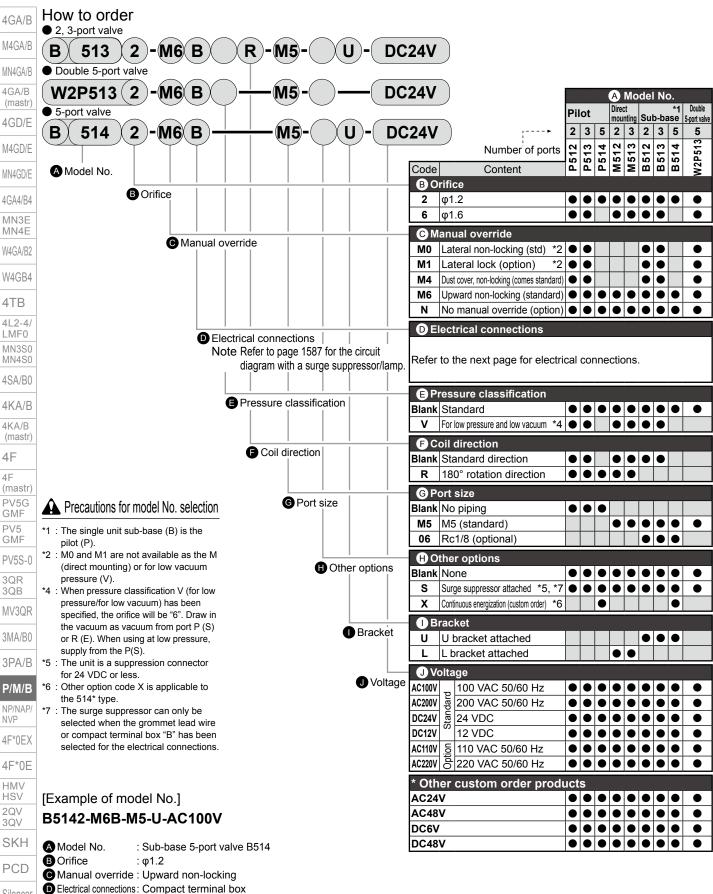
(Total Air

TotAirSys

(Gamma)

Ending

Single valve; 2, 3, 5-port valve



1590

■ Coil direction

① Other options

G Port size

Bracket

Voltage

Pressure classification: Standard

: Standard direction

: U bracket attached

: M5

: None

: 100 VAC

## P/M/B Series

4GA/B

### Single valve; 2, 3, 5-port valve

### (Electrical connection list)

						A	Мо	del	No	).	
			Pil	ot		Dir	ect			*1	Double
			2	3	5	mou 2	nting 3	Su 2	b-ba	se 5	5-port valve 5
			-	က	2	2	3	7	က	2	
	_	Number of ports	512	51	P514	21	51	21	51	51	W2P513
Code		Content	Δ.	Δ.	Δ.	Σ	Σ	В	m	В	×
		rical connections									
E	Standard	Grommet lead wire (300 mm)	•	•	•	•	•	•	•	•	•
В	_	Compact terminal box	•	•	•	•	•	•	•	•	•
Q	Option	Grommet lead wire (300 mm) With surge suppressor	•	•	•	•	•		•	•	•
C type	e cc	onnector (lead wire lateral direction)									
С	Std.	Lead wire length (300 mm)	•	•	•	•	•	•	•	•	•
C00		Lead wire length (500 mm)	•	•	•	•	•	•	•	•	•
C01		Lead wire length (1000 mm)	•	•	•	•	•	•	•	•	•
C02	1	Lead wire length (2000 mm)	•	•	•	•	•	•	•	•	•
C03		Lead wire length (3000 mm)	•	•	•	•	•	•	•	•	•
C1	ے	Without lead wire	•	•	•	•	•	•	•	•	•
C2	Option	Lead wire (300 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
C20	0	Lead wire (500 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
C21	1	Lead wire (1000 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
C22	1	Lead wire (2000 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
C23	1	Lead wire (3000 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
C3	1	No lead wire, with surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
D type	e cc	onnector (lead wire upward direction)									
D		Lead wire length (300 mm)	•	•	•	•	•	•	•	•	•
D00		Lead wire length (500 mm)	•	•	•	•	•	•	•	•	•
D01	1	Lead wire length (1000 mm)	•	•	•	•	•	•	•	•	•
D02		Lead wire length (2000 mm)	•	•	•	•	•	•	•	•	•
D03		Lead wire length (3000 mm)	•	•	•	•	•	•	•	•	•
D1	ioi	Without lead wire	•	•	•	•	•	•	•	•	•
D2	Option	Lead wire (300 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
D20	]	Lead wire (500 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
D21		Lead wire (1000 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
D22		Lead wire (2000 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
D23		Lead wire (3000 mm), surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
D3		No lead wire, with surge suppressor/indicator lamp	•	•	•	•	•	•	•	•	•
Comp	act	terminal box									
L	Ľ	Without lead wire With indicator lamp	•	•	•	•	•	•	•	•	•
LS	Option	Without lead wire With surge suppressor and indicator lamp	•	•	•	•	•	•	•	•	•
Р	0	Without lead wire With surge suppressor		•	•	•	•	•	•	•	•

<sup>\*3:</sup> With DC voltage, L is equipped with a surge suppressor.

M4GA/B MN4GA/B 4GA/B (mastr) 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 4TB 4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (mastr) 4F (mastr) PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F\*0EX 4F\*0E HMV HSV 2QV 3QV SKH PCD Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

# P/M/B 512, 513 series Single valve; 2, 3-port valve

### Internal structure and parts list

### P/B 512

4GA/B M4GA/B

MN4GA/B 4GA/B

(mastr) 4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E W4GA/B2 W4GB4

4TB

4L2-4/

LMF0

4KA/B

PV5G

GMF PV5 **GMF** 

3QR

3QB MV3QR

3MA/B0 3PA/B P/M/B NP/NAP NVP 4F\*0EX 4F\*0E HMV

HSV 2QV

3QV

SKH

**PCD** 

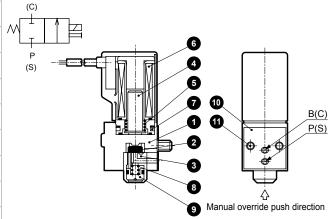
Silencer

TotAirSys (Total Air)

TotAirSys

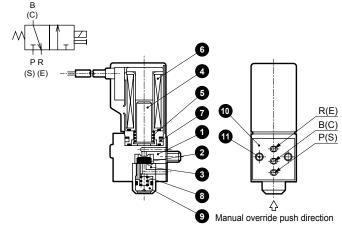
4F

Manual override lateral direction (M0) 2-port valve



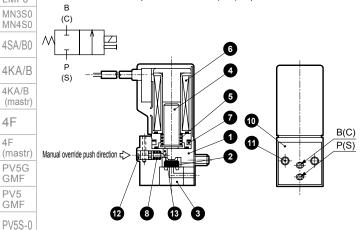
### P/B 513

Manual override lateral direction (M0) 3-port valve



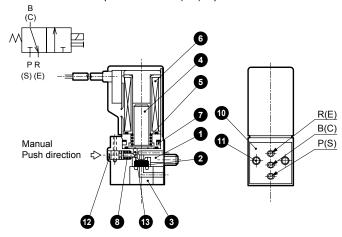
### P/M/B 512

Manual override upward direction (M6) 2-port valve



#### P/M/B 513

Manual override upward direction (M6) 3-port valve

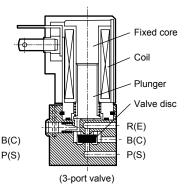


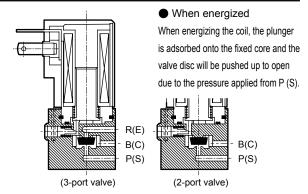
### Main parts list

	No.	Part name	Material	No.	Part name	Material
	1	Body	Zinc die-casting	10	Body gasket	Cork
	2	Valve disc	Nitrile rubber	11	Cross-recessed pan head machine screw with spring washer	Steel
1	3	Bottom seat	Copper alloy	12	Manual shaft	Resin
	4	Plunger	Stainless steel	13	Manual pin	Resin
	5	Plunger spring	Stainless steel			
	6	Coil assembly	-			
	7	Wave pin	Piano wire			
-	8	Manual spring	Stainless steel			
	9	Push button	Copper alloy			

### Operational principle

When not energized When energization of the coil is suspended, the plunger will move away from the fixed core. The valve disc will close due to the spring and the weight of the plunger.





(Gamma) Ending

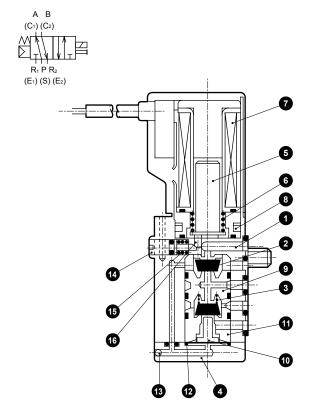
(2-port valve)

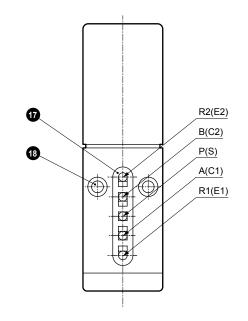
Single valve; 5-port valve

### Internal structure and parts list

#### P/B 5142

 Manual override upward direction (M6) 5-port valve 2-position single



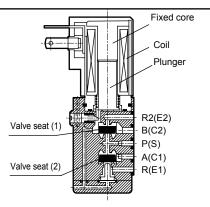


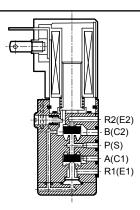
Main parts list

No.	Part name	Material	No.	Part name	Material
1	Body	Zinc die-casting	10	Piston	Copper alloy
2	Valve disc	Nitrile rubber	11	Bottom seat B	Copper alloy
3	Spring	Stainless steel	12	Diaphragm	Nitrile rubber
4	Сар	Zinc die-casting	13	Steel ball	Steel
5	Plunger	Stainless steel	14	Manual shaft	Resin
6	Plunger spring	Stainless steel	15	Manual spring	Stainless steel
7	Coil assembly	-	16	Manual pin	Resin
8	Wave pin	Piano wire	17	Body gasket	Nitrile rubber
9	Bottom seat A	Copper alloy	18	Cross-recessed pan head machine screw with spring washer	Steel

### Operational principle

● When not energized
When energization of the coil is
suspended, the plunger will
lower and the pressure on the B
(C2) side will be exhausted to
the R2 (E2) side. At the same
time, the valve seat (2) will lower
due to the spring force and the
pressure on the P (S) side will
be guided to the A (C1) side.





● When energized
When the coil is energized,
the plunger will rise and the
pressure on the P (S) side will
be guided to the B (C2) side.
At the same time, the valve
seat (2) will rise due to this
pressure and the pressure on
the A (C1) side will be
exhausted to the R1 (E1) side.

M4GA/B

MN4GA/B

4GA/B

4GA/B (mastr)

4GD/E M4GD/E

MN4GD/E

4GA4/B4 MN3E

MN4E W4GA/B2

W4GB4

4TB 4L2-4/ LMF0 MN3S0 MN4S0

MN4S0 4SA/B0

4KA/B 4KA/B (mastr)

4F

4F (mastr) PV5G GMF PV5 GMF

PV5S-0

3QR 3QB

MV3QR 3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F\*0EX 4F\*0E

HMV HSV 2QV

3QV

SKH

PCD Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

# P512/P513 series Single valve 2, 3-port valve; pilot

### **Dimensions**



4GA/B M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E MN4GD/E

4GA4/B4

MN3E MN4E W4GA/B2

W4GB4

4TB 4L2-4/ LMF0

MN3S0 MN4S0 4SA/B0

4KA/B 4KA/B (mastr)

4F (mastr) PV5G GMF

PV5 GMF PV5S-0

3QR 3QB MV3QR

3MA/B0 3PA/B

P/M/B NP/NAP NVP

4F\*0EX

4F\*0E HMV HSV

2QV 3QV SKH

PCD

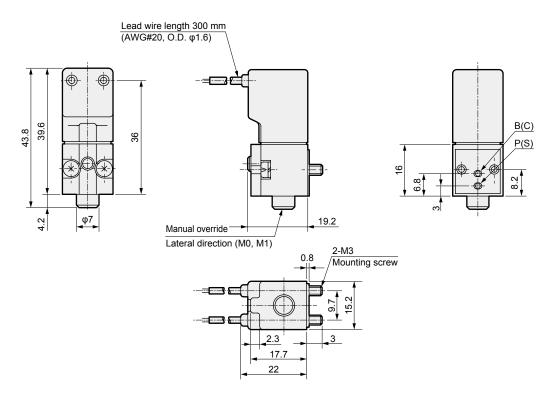
Silencer TotAirSys (Total Áir)

TotAirSys (Gamma)

Ending

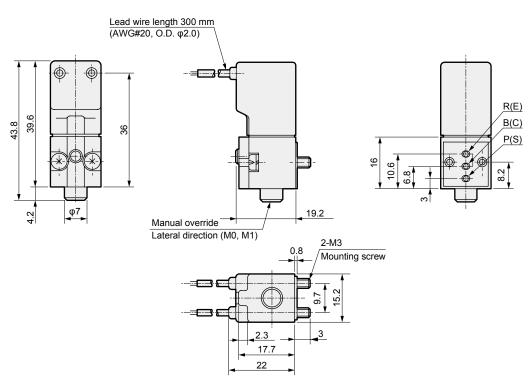
### P512<sup>2</sup><sub>6</sub>

• 2-port: grommet lead wire



### P513<sup>2</sup><sub>6</sub>

3-port: grommet lead wire



## P512/P513 Series

### Single valve 2, 3-port valve; pilot

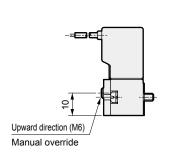
### Dimensions

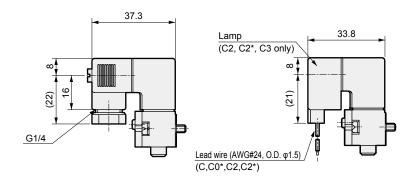


Non-locking manual override upward direction: (M6)

Compact terminal box: (B)

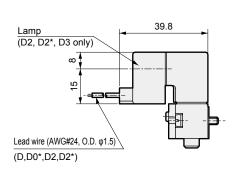
C type connector: (C/C0\*/C1/C2/C2\*/C3)

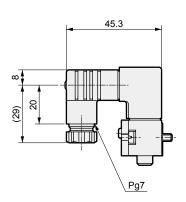


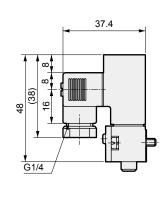


 D type connector: (D/D0\*/D1/D2/D2\*/D3) Compact terminal box with lamp: (L)
 With surge suppressor and indicator lamp: (LS)

Compact terminal box, with surge suppressor: (P)

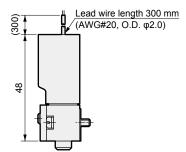


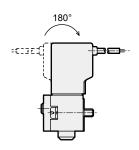




Grommet lead wire with surge suppressor: (Q)

Coil direction 180° rotation: (R)





4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

10D/F

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E

W4GA/B2

W4GB4

4TB

4L2-4/ LMF0 MN3S0 MN4S0

10114-00

4SA/B0

4KA/B

4KA/B (mastr)

4F

4 🗆

(mastr)

PV5G GMF

GMF

PV5S-0

3QR

3QB MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/ NVP

4F\*0EX

4F\*0E

HMV HSV

2QV

3QV

SKH

PCD

Silencer

TotAirSys (Total Air) TotAirSys

(Gamma) Ending

4505

## M512/M513 Series

Single valve 2, 3-port valve; direct mounting

### **Dimensions**



M4GA/B

4GA/B

MN4GA/B 4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2 W4GB4

4TB 4L2-4/ LMF0

MN3S0 MN4S0 4SA/B0

4KA/B 4KA/B (mastr)

4F (mastr) PV5G GMF PV5 GMF

PV5S-0 3QR 3QB

MV3QR 3MA/B0

3PA/B P/M/B

NP/NAP NVP 4F\*0EX

4F\*0E HMV HSV 2QV 3QV

SKH

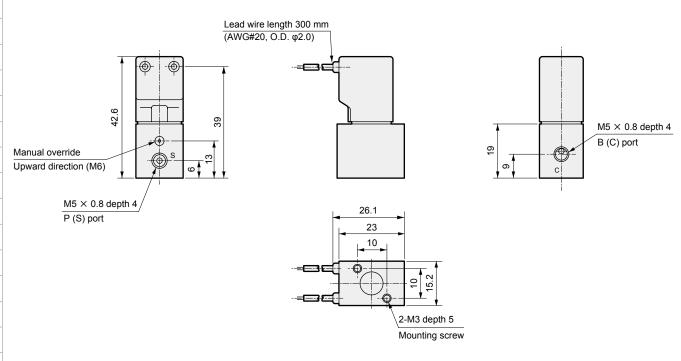
PCD Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

Ending

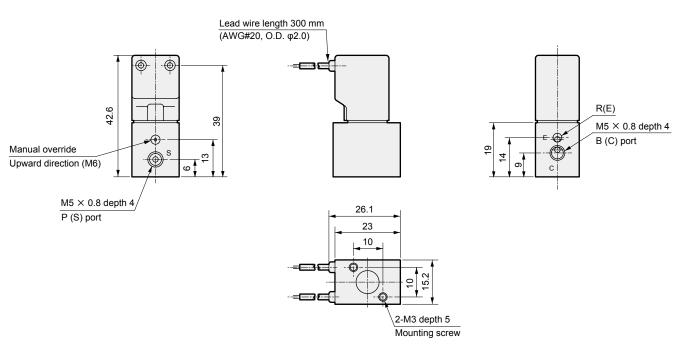
### M512<sub>6</sub>

• 2-port: grommet lead wire



### M513<sup>2</sup><sub>6</sub>

● 3-port valve: grommet lead wire



## M512/M513 Series

4GA/B M4GA/B

MN4GA/B 4GA/B (mastr) 4GD/E

M4GD/E

MN4GD/E 4GA4/B4

MN3E MN4E

W4GA/B2

W4GB4

4L2-4/ LMF0 MN3S0 MN4S0

4SA/B0 4KA/B 4KA/B

(mastr)

(mastr) PV5G GMF

GMF

3QR

3QB MV3QR 3MA/B0 3PA/B

P/M/B

NP/NAP/ NVP 4F\*0EX 4F\*0E

HMV HSV

2QV 3QV SKH

PV5S-0

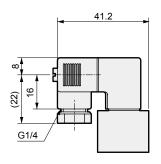
4F

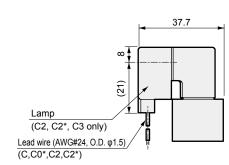
### Single valve 2, 3-port valve; direct mounting

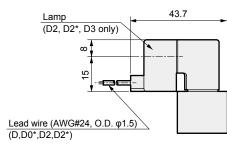
### Dimensions CAD

Compact terminal box: (B)

C type connector: (C/C0\*/C1/C2/C2\*/C3) D type connector: (D/D0\*/D1/D2/D2\*/D3)



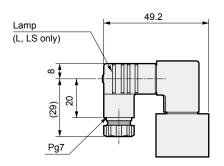


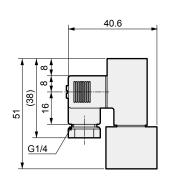


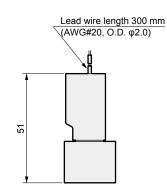
Compact terminal box with lamp: (L)
 With lamp and surge suppressor: (LS)

• Compact terminal box, with surge suppressor: (P)

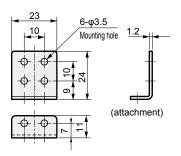
Grommet lead wire
 With surge suppressor: (Q)







● L type bracket: (L) Material: Stainless steel (Trivalent) chrome plating



Silencer TotAirSys (Total Air)

PCD

TotAirSys (Gamma) Ending

## **B512/B513** Series

Single valve pilot operated 2, 3-port valve; sub-base

Dimensions CAD



### B512<sub>6</sub>

4GA/B M4GA/B

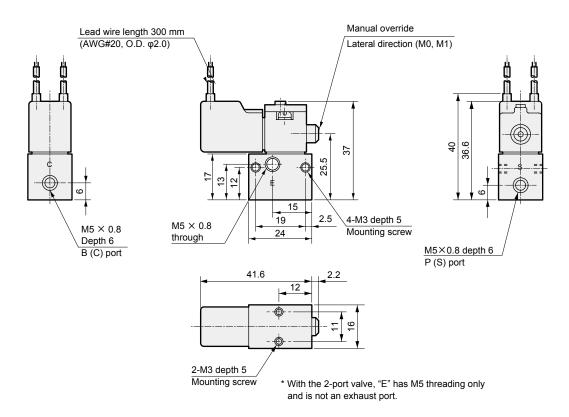
MN4GA/B

4GA/B (mastr)

4GD/E

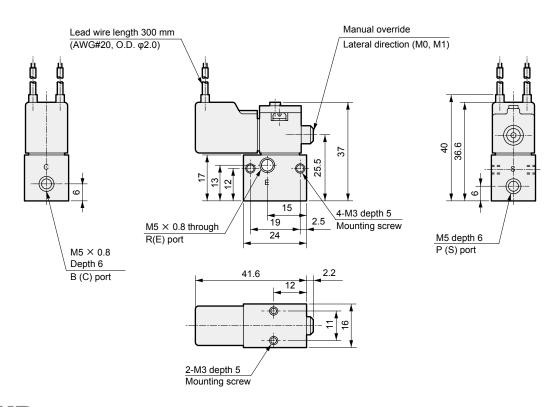
M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E

• 2-port: grommet lead wire



### B513<sup>2</sup><sub>6</sub>

3-port valve: grommet lead wire



W4GA/B2 W4GB4 4TB 4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (mastr) 4F (mastr) PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP NVP 4F\*0EX 4F\*0E HMV HSV 2QV 3QV SKH **PCD** Silencer

1598

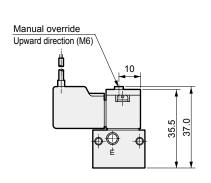
TotAirSys (Total Air) TotAirSys (Gamma)

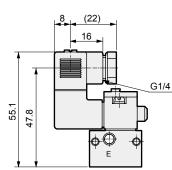
## **B512/B513** Series

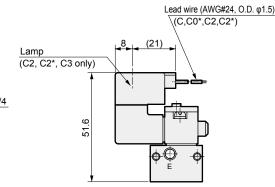
### Single valve pilot operated 2, 3-port valve; sub-base

## Dimensions

C type connector: (C/C0\*/C1/C2/C2\*/C3)

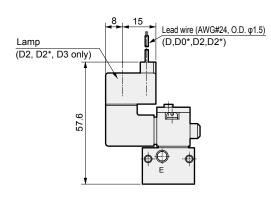


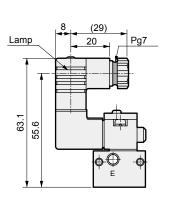


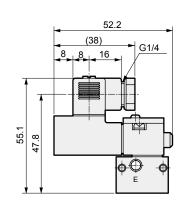


D type connector: (D/D0\*/D1/D2/D2\*/D3) Compact terminal box with lamp: (L) With surge suppressor and indicator lamp: (LS)

Compact terminal box, with surge suppressor: (P)



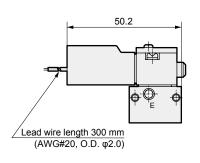


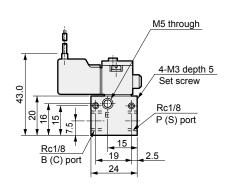


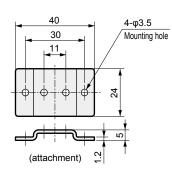
Grommet lead wire with surge suppressor: (Q)

Port size Rc 1/8: (06)

U type bracket: (U) Material: Stainless steel (Trivalent) chrome plating







4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E

W4GA/B2 W4GB4

4TB

4L2-4/ LMF0 MN3S0 MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

(mastr) PV5G GMF

PV5 GMF

PV5S-0 3QR

3QB MV3QR

3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F\*0EX

4F\*0E

HMV HSV

2QV 3QV

SKH

**PCD** 

Silencer TotAirSys (Total Air)

TotAirSys (Gamma) **Ending** 

## W2P513 Series

Single valve 5-port valve (two 3-port valves integrated); double

### Dimensions



4GA/B M4GA/B

M4GA/B MN4GA/B

4GA/B (mastr)

4GD/E M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4 4TB

4L2-4/ LMF0 MN3S0 MN4S0

4SA/B0 4KA/B

4KA/B (mastr)

4F (mastr) PV5G GMF

4F

PV5 GMF

PV5S-0 3QR 3QB

MV3QR

3MA/B0 3PA/B

P/M/B

NP/NAP/ NVP

4F\*0EX

4F\*0E

HMV HSV

2QV 3QV

PCD

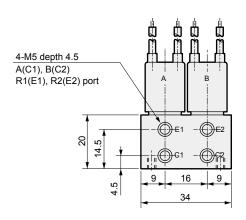
Silencer TotAirSys

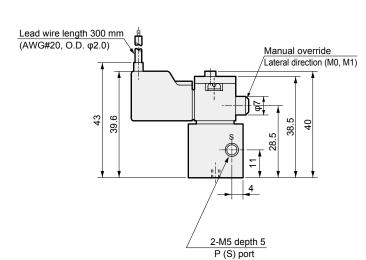
(Total Air)
TotAirSys
(Gamma)

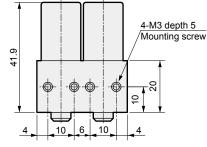
Ending

#### W2P513

Grommet lead wire







## W2P513 Series

4GA/B M4GA/B

MN4GA/B

4GA/B

(mastr)

4GD/E

M4GD/E

MN4GD/E 4GA4/B4

MN3E

MN4E

W4GA/B2 W4GB4 4TB 4L2-4/ LMF0 MN3S0 MN4S0

4SA/B0

4KA/B 4KA/B

(mastr)

(mastr)

PV5G GMF

GMF

3QR 3QB MV3QR 3MA/B0

PV5S-0

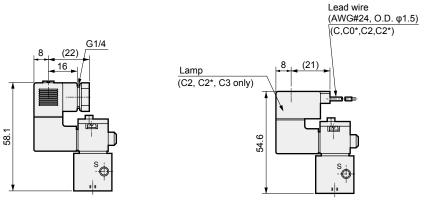
4F

### Single valve 5-port valve (two 3-port valves integrated); double



■ Non-locking manual override upward direction: (M6)
■ Compact terminal box: (B)

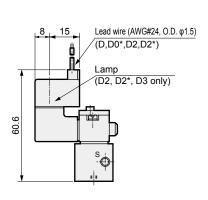
C type connector: (C/C0\*/C1/C2/C2\*/C3)

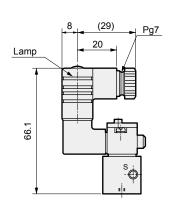


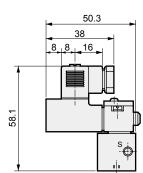
Manual override Upward direction (M6) الخان S

D type connector: (D/D0\*/D1/D2/D2\*/D3) Compact terminal box with lamp: (L) With surge suppressor and indicator lamp: (LS)

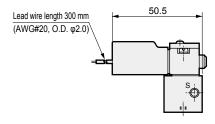
Compact terminal box, with surge suppressor: (P)







Grommet lead wire with surge suppressor: (Q)



3PA/B P/M/B

NP/NAP/ NVP

4F\*0EX

4F\*0E HMV HSV

2QV 3QV

SKH **PCD** 

Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

## P5142 Series

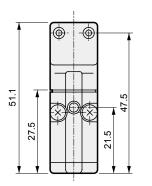
Single valve 5-port valve; pilot

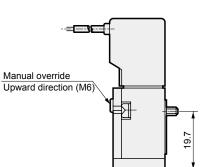
### Dimensions

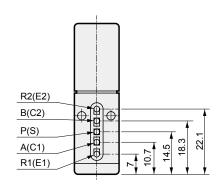


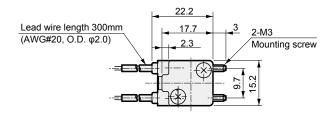
M4GA/B P5142

Pilot: grommet lead wire

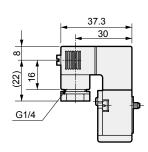




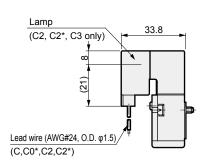




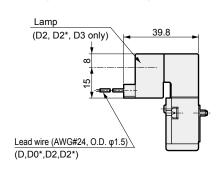
Compact terminal box: (B)



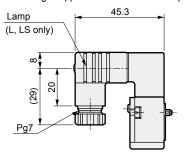
C type connector: (C/C0\*/C1/C2/C2\*/C3)



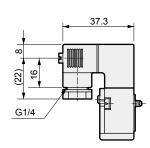
D type connector: (D/D0\*/D1/D2/D2\*/D3)

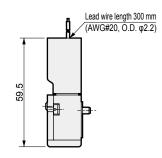


Compact terminal box with lamp: (L) With surge suppressor and indicator lamp: (LS)



● Compact terminal box, with surge suppressor: (P) ● Grommet lead wire with surge suppressor: (Q)





Ending

**CKD** 



4GA/B

M4GD/E

MN4GD/E 4GA4/B4

MN3E MN4E W4GA/B2

W4GB4 4TB

4L2-4/ LMF0 MN3S0 MN4S0

4SA/B0 4KA/B

4KA/B (mastr) 4F

4F (mastr) PV5G GMF PV5 GMF

PV5S-0 3QR 3QB

MV3QR 3MA/B0

3PA/B P/M/B

NP/NAP NVP 4F\*0EX

4F\*0E HMV HSV 2QV

3QV SKH

Silencer

**PCD** 

TotAirSys (Total Air) TotAirSys (Gamma)

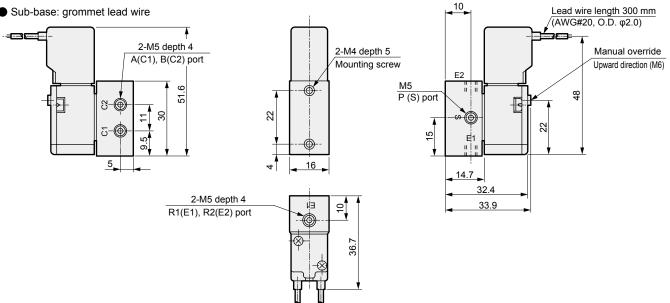
1602

Single valve 5-port valve; sub-base

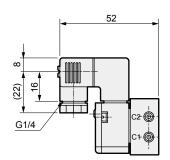


#### B5142

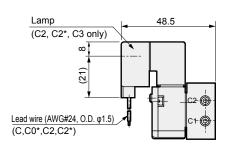
Sub-base: grommet lead wire



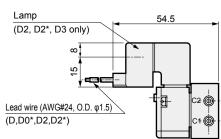
Compact terminal box: (B)



C type connector: (C/C0\*/C1/C2/C2\*/C3)

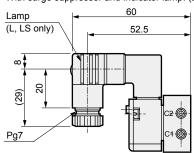


D type connector: (D/D0\*/D1/D2/D2\*/D3)

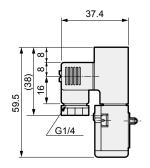


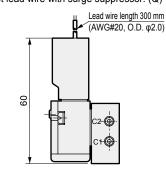
Compact terminal box with lamp: (L)

With surge suppressor and indicator lamp: (LS)

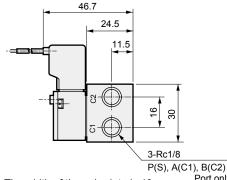


■ Compact terminal box, with surge suppressor: (P)
■ Grommet lead wire with surge suppressor: (Q)





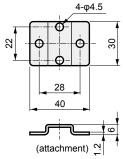
Port size Rc1/8: (06)



\* The width of the sub-plate is 19.

U type bracket: (U)

Material: Stainless steel (Trivalent) chrome plating



4GA/B

M4GA/B

MN4GA/B 4GA/B

(mastr) 4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E W4GA/B2

W4GB4

4TB

4L2-4/ LMF0 MN3S0

MN4S0 4SA/B0

4KA/B

4KA/B (mastr)

4F 4F (mastr) PV5G **GMF** 

PV5 GMF PV5S-0

3QR 3QB

MV3QR

3MA/B0

3PA/B

P/M/B NP/NAP. NVP

4F\*0EX

4F\*0E HMV

HSV 2QV

3QV

SKH

**PCD** 

Silencer TotAirSys (Total Air)

TotAirSys (Gamma)



Individual wiring manifold Pilot operated 2, 3, 5-port miniature pneumatic valve

## B\*P51\* Series

Cylinder bore size: φ6 to φ16



Refer to the Ending for





### JIS symbol

2-port valve



₩4GA/B2 **3**-ı

4GD/E

M4GD/E

MN4GD/E 4GA4/B4 MN3E MN4E

W4GB4 4TB

4L2-4/

LMF0

MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (mastr)

(mastr)

PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0

3PA/B

P/M/B

NP/NAPA NVP

4F\*0EX

4F\*0E

HMV

HSV

2QV

3QV

SKH

PCD Silencer TotAirSys



5-port valve2-position single



### Common specifications

Descriptions	Content
Manifold method	Manifold integrated
Manifold	Common supply, common exhaust
Station No.	2 to 10 stations
Valve and operation	Pilot operated poppet valve
Working fluid	Compressed air/low vacuum
Max. working pressure MPa	Refer to Individual specifications listed below
Min. working pressure MPa	Refer to Individual specifications listed below
Proof pressure MPa	Refer to Individual specifications listed below
Ambient temperature °C	-10 (14°F) to 50 (122°F) (no freezing)
Fluid temperature °C	5 (41°F) to 50 (122°F)
Lubrication	Not required
Degree of protection	Dust-proof
Vibration resistance m/s <sup>2</sup>	50 or less
Shock resistance m/s <sup>2</sup>	300 or less
Atmosphere	Cannot be used in corrosive gas environment.

### Electrical specifications

Descriptions			Content		
Rated voltage	AC		100, 200 (50/60 Hz)		
V	DC		12, 24		
Voltage fluc	oltage fluctuation range		±10%		
Ctarting	AC	100 V	0.056 / 0.044		
Starting current	AC	200 V	0.034 / 0.026		
Current	DC	12 V	0.150		
A		24 V	0.075		
Holding	AC	100 V	0.028 / 0.022		
Holding		200 V	0.017 / 0.013		
current	DC	12 V	0.150		
A		24 V	0.075		
Power consumption		100 V	1.8 / 1.4 (2.0/1.6)		
VV ( ):With	AC	200 V	2.1 / 1.6 (2.0/1.8)		
indicator	DC	12 V	1.8(2.0)		
lamp		24 V	1.8(2.0)		
Thermal	clas	s	B (molded coil)		
Temperati	ıre r	ise °C	45 (113°F)		

Reference: 100 VAC 50/60 Hz can be used with a rated voltage of 110 VAC 60 Hz and 200 VAC 50/60 Hz can be used with 220 VAC 60 Hz. 1 MPa  $\approx$  145.0 psi, 1 MPa = 10 bar

### Individual specifications

Descriptions	2-port	valve	3-port	valve	5-port valve	
Descriptions	P5122	P5126	P5132	P5136	P5142	
Max. working pressure MPa	1.0	0.6	1.0	0.6	0.7 (≈100 psi, 7 bar)	
Min. working pressure MPa	0.1	0.1 *2	0.1	0.1 *2	0.15 (≈20 psi, 1.5 bar)	
Proof pressure MPa	1.5	1.5	1.5	1.5	1.05 (≈150 psi, 10.5 bar)	
Orifice mm	φ1.2	φ1.6	φ1.2	φ1.6	φ1.2	
Response time *1 ms 30 or less		less	30 oı	less	60 or less	
Weight (n: station No.) g		83×n+5				

<sup>\*1:</sup> The response time is the value at 0.5 MPa supply pressure, with no lubrication, and with the power ON. It depends on the pressure and the lubricant quality.

### [Mix manifold]

■ How to list combination content When selecting a combination manifold (write 8 from ⓒ), list the code (refer to table on right) for required functions and the arrangement No. (numbering up to specified station No. with left side as 1) in the field for remarks below the normal model No. display as shown in the example.

Code	Function
M2	2-port valve
М3	3-port valve
M4	5-port valve
MP	Masking plate

1	2	3	4	5
3-port valve	3-port valve	3-port valve	5-port valve	5-port valve
(M3)	(M3)	(M3)	(M4)	(M4)

#### Example

The model No. when using a combination manifold of 5 stations with an arrangement such as that in the figure at left with an orifice of φ1.2 and a voltage of 200 VAC is

### B5P5182-M6E-M5-AC200V

M2 M3 M4 MP
- 0 3 2 0

(M3 = 1 to 3, M4 = 4/5)

Enter the quantity to be used after the model No. Even when none are to be used, enter 0.

(Total Air)
TotAirSys
(Gamma)

(Gamma) Ending



<sup>\*2:</sup> When specifying the pressure classification V (for low pressure, for low vacuum pressure), the units can be used with low pressure (0 to 0.29 MPa) or low vacuum (3.3 to 101.0 O kPa (abs) {25 to 760 Torr}).

### Individual wiring manifold; 2, 3, 5-port valve

### Flow characteristics

Model No.	Solenoid position	C[dm³/(s·bar)]	b
P5122	2 nort	0.11	0.15
P5126	2-port	0.15	0.18

Model No.	Salanaid position	P-	<b>→</b> B	B→R		
	Solenoid position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b	
P5132	2 nort	0.11	0.15	0.15	0.34	
P5136	3-port	0.15	0.18	0.15	0.29	

Model No.	Solonoid position	P→	A/B	A/B→R1/R2		
woder No.	Solenoid position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b	
P5142	5-port	0.09	0.23	0.13	0.18	

<sup>\*1:</sup> Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \text{ x C}$ .

### Copper and PTFE free specifications

• Copper- and PTFE-based materials are not used in the flow path.

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4

4TB

4L2-4/ LMF0

MN3S0 MN4S0 4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr) PV5G GMF

PV5 GMF

PV5S-0

3QR 3QB MV3QR

3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F\*0EX

4F\*0E

HMV HSV

2QV 3QV

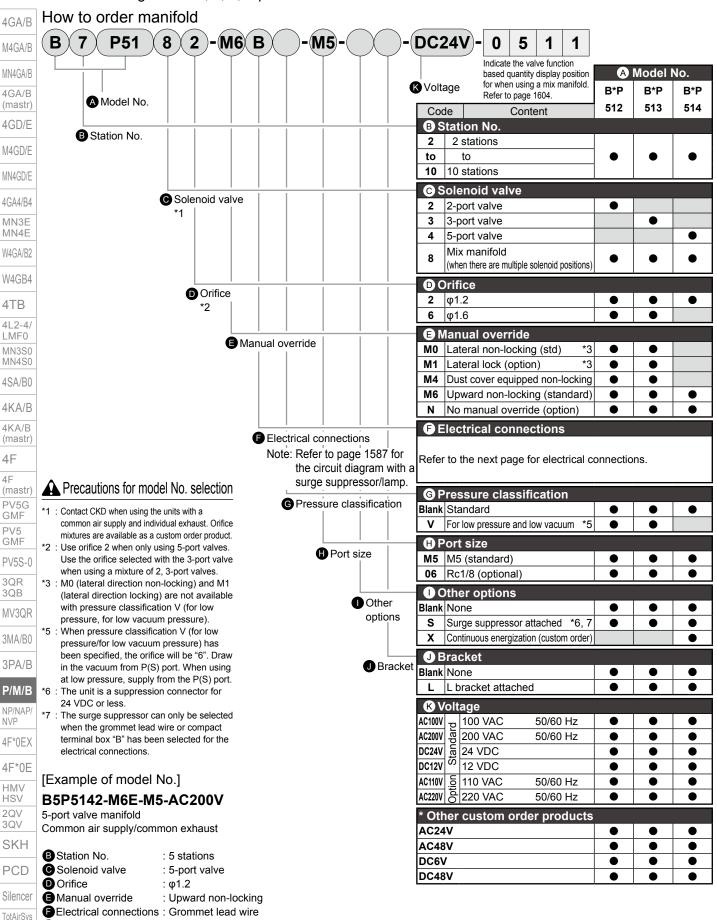
PCD

Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

## B\*P51\* Series

Individual wiring manifold; 2, 3, 5-port valve



: M5

: None

: None

: 200 VAC

Port size

DBracket

**K** Voltage

Other options

4F

PV/5

NVP

HSV

3QV

(Total Air

TotAirSys (Gamma)

### Individual wiring manifold; 2, 3-port valve

### (Electrical connection list)

		Ī	A	Model N	No.
			B*P	B*P	B*P
Cod	le.	Content	512	513	514
G E	lec	trical connections			
E	dard	Grommet lead wire (300 mm)	•	•	•
В	Stan	Compact terminal box	•	•	•
Q	Option	Grommet lead wire (300 mm) with surge suppressor	•	•	
C type		nnector (lead wire lateral direction)			
С	Std	Lead wire length (300 mm)	•	•	•
C00		Lead wire length (500 mm)	•	•	•
C01		Lead wire length (1000 mm)	•	•	•
C02		Lead wire length (2000 mm)	•	•	•
C03		Lead wire length (3000 mm)	•	•	•
C1	_	Without lead wire	•	•	•
C2	ption	Lead wire length (300 mm) with surge suppressor and indicator lamp	•	•	•
C20	0	Lead wire length (500 mm) with surge suppressor and indicator lamp	•	•	•
C21	1	Lead wire length (1000 mm) with surge suppressor and indicator lamp	•	•	•
C22		Lead wire length (2000 mm) with surge suppressor and indicator lamp	•	•	•
C23	1	Lead wire length (3000 mm) with surge suppressor and indicator lamp	•	•	•
C3	1	Without lead wire with surge suppressor and indicator lamp	•	•	•
D type	e cc	nnector (lead wire upward direction)			
D		Lead wire length (300 mm)	•	•	•
D00	1	Lead wire length (500 mm)	•	•	•
D01	1	Lead wire length (1000 mm)	•	•	•
D02	1	Lead wire length (2000 mm)	•	•	•
D03	1	Lead wire length (3000 mm)	•	•	•
D1	Option	Without lead wire	•	•	•
D2	형	Lead wire length (300 mm) with surge suppressor and indicator lamp	•	•	•
D20	]	Lead wire length (500 mm) with surge suppressor and indicator lamp	•	•	•
D21		Lead wire length (1000 mm) with surge suppressor and indicator lamp	•	•	•
D22		Lead wire length (2000 mm) with surge suppressor and indicator lamp	•	•	•
D23		Lead wire length (3000 mm) with surge suppressor and indicator lamp		•	•
D3	L	Without lead wire with surge suppressor and indicator lamp	•	•	•
Comp	act	terminal box			
L	Ľ	Without lead wire with indicator lamp	•	•	•
LS	ption	Without lead wire with surge suppressor and indicator lamp	•	•	•
Р	0	Without lead wire with surge suppressor	•	•	•

<sup>\*4:</sup> With DC voltage, L is equipped with a surge suppressor

4GA/B M4GA/B MN4GA/B 4GA/B (mastr) 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 4TB 4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (mastr) 4F PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B

P/M/B

NP/NAP/ NVP 4F\*0EX

4F\*0E

HMV HSV

2QV 3QV

SKH

PCD

Silencer TotAirSys (Total Air)

TotAirSys (Gamma)

## B\*P51<sup>2</sup> Series

Individual wiring manifold; 2, 3-port valve





#### M4GA/B B\*P513

4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E

W4GA/B2

W4GB4

4TB 4L2-4/

LMF0

MN3S0 MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

(mastr) PV5G GMF

P\/5

**GMF** PV5S-0

3QR

3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP NVP 4F\*0EX

4F\*0E HMV

HSV 2QV 3QV

SKH **PCD** 

Silencer

TotAirSvs

(Total Air)

TotAirSys

(Gamma)

Ending

4F

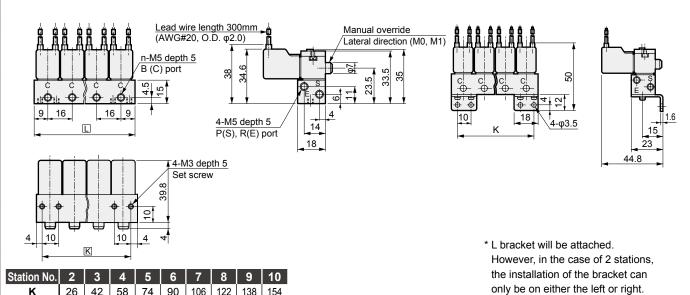
Κ

26 42

34 50

Grommet lead wire

L type bracket: (L) Material: Stainless steel (Trivalent) chrome plating



66 Non-locking manual override upward direction

58 74 90 106

> 82 98 114

Manual override Upward direction (M6) Compact terminal box: (B)

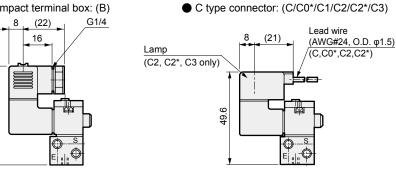
138 154

53,

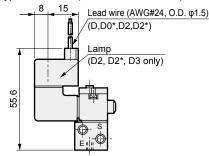
162

122

130 146

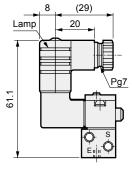


D type connector: (D/D0\*/D1/D2/D2\*/D3)



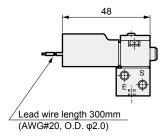
Compact terminal box with lamp: (L)

With surge suppressor and indicator lamp: (LS) Compact terminal box, with surge suppressor: (P)

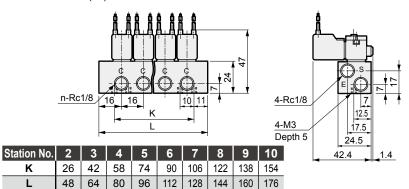


48 G1/4 <u>(38</u>) 8 8 16 53.2  $\bigoplus$ 

Grommet lead wire with surge suppressor: (Q)



Port size Rc1/8: (06)



### B\*P514 Series

### Individual wiring manifold; 5-port valve

### **Dimensions**

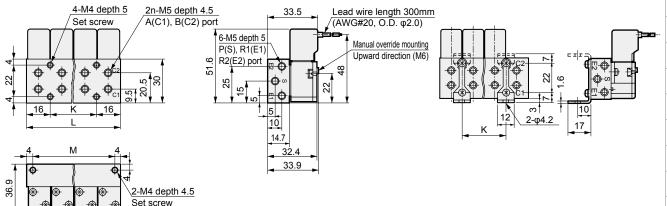


#### B\*P514

Grommet lead wire

\* With B\*P518 (mix manifold), 2-port valves and 3-port valves will be mounted on the manifold base of B\*P514.

L type bracket: (L) Material: Stainless steel (Trivalent) chrome plating



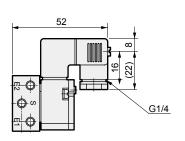
5	Station No.	2	3	4	5	6	7	8	9	10
	K	0	16	32	48	64	80	96	112	128
	L	32	48	64	80	96	112	128	144	160
	М	24	40	56	72	88	104	120	136	152

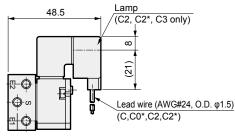
Compact terminal box: (B)

48.5

● D type connector: (D/D0\*/D1/D2/D2\*/D3)

\* L bracket will be attached.





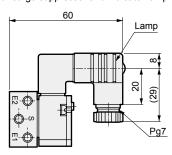
●C type connector: (C/C0\*/C1/C2/C2\*/C3)

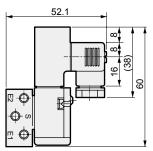
54.5 Lamp (D2, D2\*, D3 only) **п-Ф** *ن* - 🌐 Lead wire (AWG#24, O.D. φ1.5) (D,D0\*,D2,D2\*)

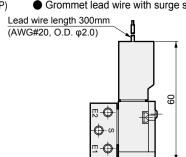
Compact terminal box with lamp: (L)

With surge suppressor and indicator lamp: (LS) • Compact terminal box, with surge suppressor: (P)

Grommet lead wire with surge suppressor: (Q)

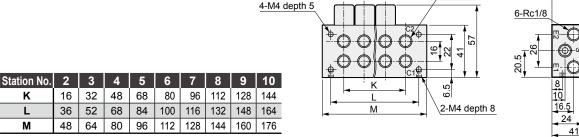


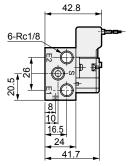




2n-Rc1/8

Port size Rc1/8: (06)





4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E W4GA/B2

W4GB4

4TB

4L2-4/ LMF0 MN3S0 MN4S0

4SA/B0

4KA/B 4KA/B

(mastr)

4F 4F (mastr)

PV5G **GMF** PV5 GMF

PV5S-0 3QR

3QB MV3QR

3MA/B0 3PA/B

P/M/B

NP/NAP

4F\*0EX

4F\*0E HMV

HSV 2QV 3QV

SKH

**PCD** Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

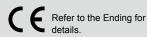
4GA/B
M4GA/B
MN4GA/B
4GA/B

Block manifold

Pilot operated 2, 3, 5-port valve miniature pneumatic valve

## N\*P51\* Series

Cylinder bore size: φ6 to φ16







### JIS symbol

(mastr) 4GD/E

M4GD/E

MN4GD/E 4GA4/B4 MN3E

MN4E

W4GA/B2

W4GB4 4TB

4L2-4/ LMF0

MN3S0

MN4S0

4SA/B0 4KA/B 4KA/B

(mastr)

(mastr)

PV5G GMF PV5 GMF PV5S-0 3QR 3QB

3MA/B0

3PA/B

P/M/B NP/NAP/

4F\*0EX
4F\*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys

4F

• 2-port valve



3-port valve



5-port valve2-position single



### Common specifications

Descriptions		Content		
Manifold metho	4	Manifold block system		
	u	(DIN rail mount)		
Manifold		Common supply/common exhaust		
Station No.		2 to 25 stations		
Valve and opera	ation	Pilot operated poppet valve		
Working fluid		Compressed air/low vacuum		
Max. working pressure	MPa	Refer to Individual specifications listed below		
Min. working pressure	MPa	Refer to Individual specifications listed below		
Proof pressure	MPa	1.5 (≈220 psi, 15 bar) (*1)		
Ambient temperature	°C	-10 (14°F) to 40 (104°F) (no freezing)		
Fluid temperature	°C	5 (41°F) to 40 (104°F)		
Lubrication		Not required		
Degree of prote	ction	Dust-proof		
Vibration resistance	m/s²	50 or less		
Shock resistance	m/s²	300 or less		
Atmosphere		Cannot be used in corrosive gas environment.		
*1: DE142 will be 1	OF M	Do.		

#### \*1: P5142 will be 1.05 MPa.

### Electrical specifications

Descriptions			Content		
Rated voltage	AC		100, 200 (50/60 Hz)		
V	DC		12, 24		
Voltage fluc	tuation range		±10%		
Ctarting	AC	100 V	0.056 / 0.044		
Starting	AC	200 V	0.034 / 0.026		
current	DC	12 V	0.150		
A	DC	24 V	0.075		
Llolding	AC	100 V	0.028 / 0.022		
Holding current		200 V	0.017 / 0.013		
	D0	12 V	0.150		
A	DC	24 V	0.075		
Power	AC	100 V	1.8 / 1.4 (2.0/1.6)		
consumption W	ΛC	200 V	2.1 / 1.6 (2.3/1.8)		
( ): With	DC	12 V	1.8(2.0)		
indicator lamp	DC	24 V	1.8(2.0)		
Thermal	class	3	B (molded coil)		
Temperati	ıre r	ise °C	45 (113°F)		

Reference: 100 VAC 50/60 Hz can be used with a rated voltage of 110 VAC 60 Hz and 200 VAC 50/60 Hz can be used with 220 VAC 60 Hz. 1 MPa  $\approx$  145.0 psi, 1 MPa = 10 bar

### Individual specifications

Descriptions	2-port	valve	3-port	valve	5-port valve	
Descriptions	P5122	P5126	P5132	P5136	P5142	
Max. working pressure MPa	1.0	0.6	1.0	0.6	0.7 (≈100 psi, 7 bar)	
Min. working pressure MPa	0.1	0.1 *2	0.1	0.1 *2	0.15 (≈22 psi, 1.5 bar)	
Orifice mm	φ1.2	φ1.6	φ1.2	φ1.6	φ1.2	
Response time *1 ms	30 oı	less	30 oı	less	60 or less	

<sup>\*1 :</sup> The response time is the value at 0.5 MPa supply pressure, with no lubrication, and with the power ON. It depends on the pressure and the lubricant quality.

### Weight

Valve block	N513*-UH4(SH4)	N5142-UH4(SH4)
(g)	17	21
Supply block	P□UH6	P□SH6
(g)	25	34
Exhaust block	R□UH6	R□SH6
(g)	25	34
DIN rail (g) n: number of valve blocks, m: number of other blocks	13+3×	s(n+m)

(Total Air)
TotAirSys
(Gamma)
Ending

<sup>\*2 :</sup> When specifying the pressure classification V (for low pressure, for low vacuum pressure), the units can be used with low pressure (0 to 0.29 MPa) or low vacuum (3.3 to 101.00 kPa (abs) {25 to 760 Torr}).

### Block manifold; 2, 3, 5-port valve

### Flow characteristics

Model No.	Solenoid position	C[dm³/(s·bar)]	b
P5122	2 nort	0.11	0.15
P5126	2-port	0.15	0.18

Model No.	Calanaid masitism	P-	<b>→B</b>	B→R						
	Solenoid position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b					
P5132	3-port	0.11	0.15	0.15	0.34					
P5136	3-port	0.15	0.18	0.15	0.29					

Madal No	Solenoid position	P→	A/B	A/B→R1/R2						
Model No.	Solenoia position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b					
P5142	5-port	0.09	0.23	0.13	0.18					

<sup>\*1:</sup> Effective cross-sectional area S and sonic conductance C are converted as S  $\approx$  5.0 x C.

### Copper and PTFE free specifications

● Copper- and PTFE-based materials are not used in the flow path.

4GA/B

M4GA/B

MN4GA/B 4GA/B (mastr)

4GD/E M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4

4TB 4L2-4/ LMF0

MN3S0 MN4S0

4SA/B0

4KA/B 4KA/B (mastr)

4F

4F (mastr) PV5G GMF

PV5 GMF

PV5S-0 3QR 3QB

MV3QR

3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F\*0EX

4F\*0E

HMV HSV 2QV 3QV

SKH

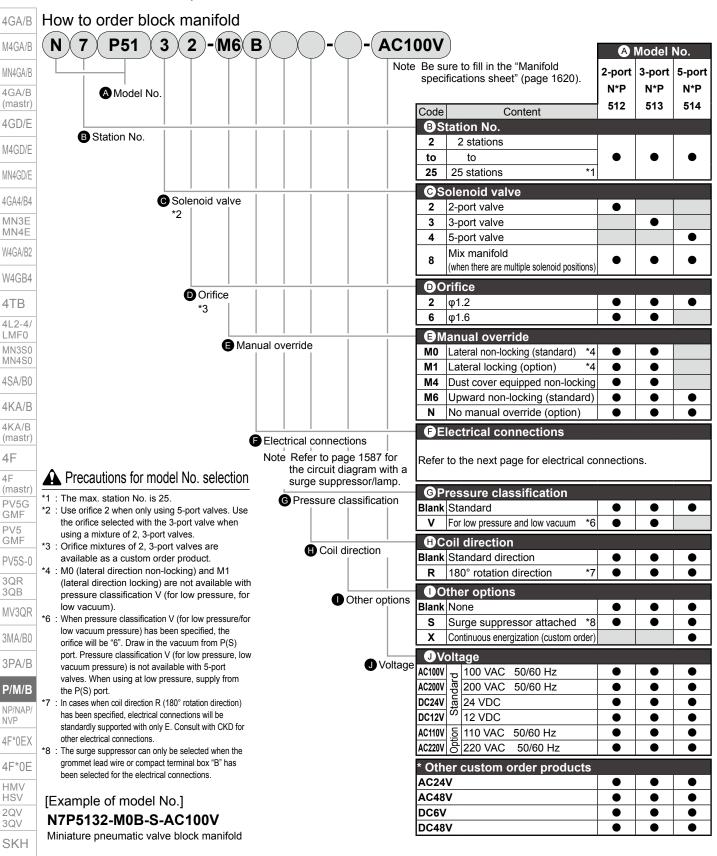
PCD

Silencer TotAirSys (Total Air)

(Total Air)
TotAirSys
(Gamma)

## N\*P51\* Series

Block manifold; 2, 3, 5-port valve



B Station No. : 7 stations C Solenoid valve : 3-port valve Orifice : φ1.2

Manual override : Lateral non-locking Electrical connections : Compact terminal box

G Pressure classification: Standard

Coil direction : Standard direction

Other options : Surge suppressor attached

Voltage : 100 VAC

4F

PV/5

3QB

NVP

HSV

2QV

3QV

**PCD** 

Silence

TotAirSvs

(Total Air

TotAirSys

(Gamma)

## N\*P51\* Series

### Block manifold; 2, 3, 5-port valve

### [Electrical connection list]

				A	Model N	lo.
	_			2-port N*P 512	3-port N*P 513	5-port N*P 514
Code			Content			
_		trical connections	,			
E	ngar	Grommet lead wire (3 Compact terminal box	300 mm)	•	•	•
В			<b>K</b>	•	•	•
Q	Option	Grommet lead wire (3	300 mm) with surge suppressor	•	•	•
	_	nnector (lead wire lateral	· · · · · · · · · · · · · · · · · · ·			
С	SE	Lead wire length (300	) mm)	•	•	•
C00	]	Lead wire length (500	) mm)	•	•	•
C01		Lead wire length (100	00 mm)	•	•	•
C02		Lead wire length (200	00 mm)	•	•	•
C03		Lead wire length (300	00 mm)	•	•	•
C1	Ę	Without lead wire		•	•	•
C2	bi∃	Without lead wire Lead wire length (300 mm)	with surge suppressor and indicator lamp	•	•	•
C20	0	Lead wire length (500 mm)	with surge suppressor and indicator lamp	•	•	•
C21		Lead wire length (1000 mm)	with surge suppressor and indicator lamp	•	•	•
C22	1	Lead wire length (2000 mm)	with surge suppressor and indicator lamp	•	•	•
C23		Lead wire length (3000 mm)	with surge suppressor and indicator lamp	•	•	•
C3	1	Without lead wire	with surge suppressor and indicator lamp	•	•	•
D type	cor	nnector (lead wire upward	d direction)			
D		Lead wire length (300	) mm)	•	•	•
D00		Lead wire length (500	) mm)	•	•	•
D01		Lead wire length (100	00 mm)	•	•	•
D02	1	Lead wire length (200	00 mm)	•	•	•
D03		Lead wire length (300	00 mm)	•	•	•
D1	ion	Without lead wire Lead wire length (300 mm)		•	•	•
D2	Opt	Lead wire length (300 mm)	with surge suppressor and indicator lamp	•	•	•
D20	]	Lead wire length (500 mm)	with surge suppressor and indicator lamp	•	•	•
D21		Lead wire length (1000 mm)	with surge suppressor and indicator lamp	•	•	•
D22		Lead wire length (2000 mm)	with surge suppressor and indicator lamp	•	•	•
D23		Lead wire length (3000 mm)	with surge suppressor and indicator lamp	•	•	•
D3		Without lead wire	with surge suppressor and indicator lamp	•	•	•
Compa	act t	erminal box				
L	ے	Without lead wire	with indicator lamp	•	•	•
LS	ption	Without lead wire	with surge suppressor and indicator lamp	•	•	•
Р	Ō	Without lead wire	with surge suppressor	•	•	•

<sup>\*5 :</sup> The DC voltage model of L is equipped with a surge suppressor.

4GA/B M4GA/B MN4GA/B 4GA/B (mastr) 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 4TB 4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (mastr) 4F (mastr) PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0

3PA/B **P/M/B** 

NP/NAP/ NVP 4F\*0EX

4F\*0E

HMV HSV

2QV 3QV

SKH

Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

## N\*P51\* Series

Block manifold 2, 3, 5-port valve; upward piping

### Dimensions



M4GA/B MN4GA/B

4GA/B (mastr) 4GD/E

M4GD/E MN4GD/E

4GA4/B4 MN3E

MN4E

W4GA/B2

W4GB4

4TB 4L2-4/ LMF0 MN3S0

MN4S0 4SA/B0 4KA/B 4KA/B (mastr) 4F

(mastr) PV5G

GMF

PV5

GMF PV5S-0

3QR

3QB MV3QR 3MA/B0 3PA/B

NVP

HMV

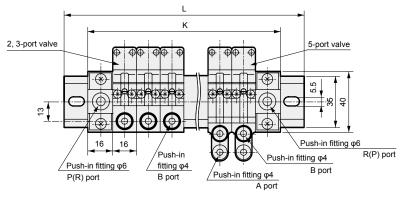
HSV

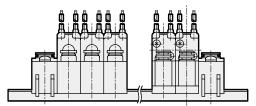
2QV 3QV

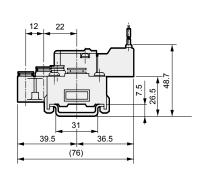
4GA/B

N\*P51

Push-in fitting upward piping: grommet lead wire





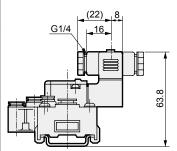


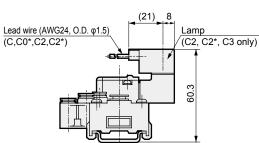
Station No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
K	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432
L	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432	448	464

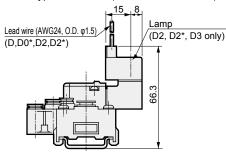
Compact terminal box: (B)

● C type connector: (C/C0\*/C1/C2/C2\*/C3)

● D type connector: (D/D0\*/D1/D2/D2\*/D3)



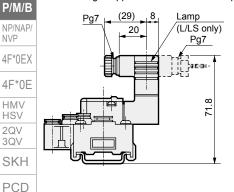


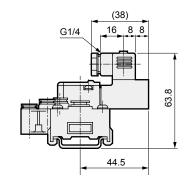


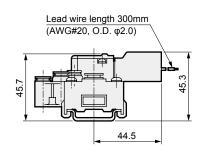
Compact terminal box with lamp: (L) With surge suppressor and indicator lamp: (LS) 

Compact terminal box, with surge suppressor: (P) 

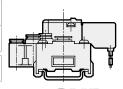
Grommet lead wire with surge suppressor: (Q)







Coil 180° rotation: (R)



TotAirSys (Total Air) TotAirSys (Gamma)

Silencer

Ending

1614

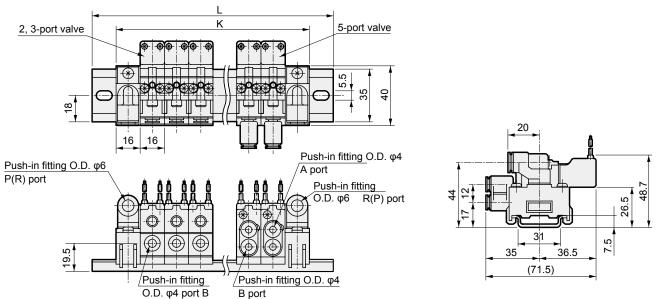
Block manifold 2, 3, 5-port valve; lateral piping

### Dimensions

## CAD

#### N\*P51

Push-in fitting lateral piping: grommet lead wire

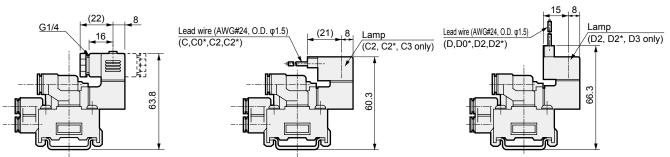


Station No	D. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
K	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432
L	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432	448	464

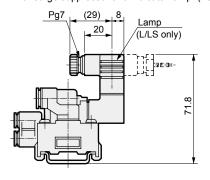
Compact terminal box: (B)

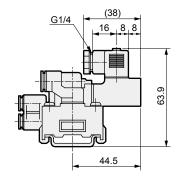
● C type connector: (C/C0\*/C1/C2/C2\*/C3)

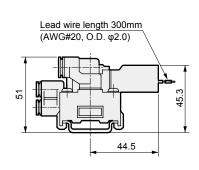
■ D type connector: (D/D0\*/D1/D2/D2\*/D3)



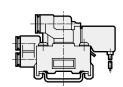
Compact terminal box with lamp: (L)
With surge suppressor and indicator lamp: (LS) ● Compact terminal box, with surge suppressor: (P) ● Grommet lead wire with surge suppressor: (Q)







Coil 180° rotation: (R)



**CKD** 

4GD/E M4GD/E

4GA/B M4GA/B

MN4GA/B 4GA/B (mastr)

MN4GD/E 4GA4/B4

MN3E MN4E W4GA/B2

W4GB4

4TB 4L2-4/ LMF0 MN3S0 MN4S0

4SA/B0

4KA/B 4KA/B (mastr)

4F

PV5G GMF PV5 GMF

PV5S-0 3QR 3QB

MV3QR 3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F\*0EX

4F\*0E HMV HSV

HSV 2QV 3QV

SKH

PCD

Silencer TotAirSys (Total Air) TotAirSys

(Gamma)