



Single valve body piping
Pilot operated 3, 5-port pneumatic valve

3KA1/4KA1/2/3/4 Series

● Cylinder bore size: $\phi 20$ to $\phi 160$

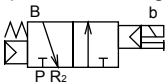


Refer to the Ending for details.



JIS symbol

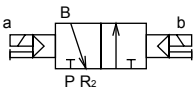
- 3-port valve
2-position NC single



- 3-port valve
2-position NO single



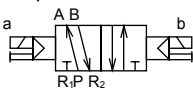
- 3-port valve
2-position double



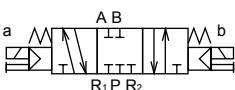
- 5-port valve
2-position single



- 5-port valve
2-position double



- 5-port valve
3-position all ports closed



- 5-port valve
3-position A/B/R connection



- 5-port valve
3-position P/A/B connection



Common specifications

Descriptions	Content
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	0.70 (≈ 100 psi, 7 bar)
Min. working pressure MPa	Refer to Individual specifications listed below
Proof pressure MPa	1.05 (≈ 150 psi, 10.5 bar)
Ambient temperature $^{\circ}\text{C}$	-5 (23 $^{\circ}\text{F}$) to 50 (122 $^{\circ}\text{F}$) (no freezing)
Fluid temperature $^{\circ}\text{C}$	5 (41 $^{\circ}\text{F}$) to 50 (122 $^{\circ}\text{F}$)
Lubrication	Not required
Degree of protection	Dust-proof
Vibration resistance m/s^2	50 or less
Shock resistance m/s^2	300 or less
Atmosphere	Cannot be used in corrosive gas environment.

Electrical specifications

Descriptions	3KA1, 4KA1/2		4KA3/4
Rated voltage	AC	100,200 (50 / 60 Hz)	
	DC	24	
Voltage fluctuation range		$\pm 10\%$	
Starting current	AC 100 V	0.056/0.044	0.046/0.042
	A AC 200 V	0.028/0.022	0.023/0.021
Holding current	AC 100 V	0.028/0.022	0.023/0.021
	A AC 200 V	0.014/0.011	
	DC 24 V	0.075	
Power consumption	AC 100 V	1.8 / 1.4 (1.8 / 1.5)	1.6 / 1.3 (1.8 / 1.5)
	W AC 200 V	1.8 / 1.4 (1.8 / 1.5)	1.6 / 1.3 (1.8 / 1.5)
	() : With indicator	DC 24 V	1.8 (2.0)
Thermal class		B (molded coil)	
Temperature rise $^{\circ}\text{C}$		43	30

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

1 MPa $\approx$ 145.0 psi, 1 MPa = 10 bar

Descriptions			3KA1	4KA1	4KA2	4KA3	4KA4
Min. working pressure	2-position	Single	0.15	0.15	0.15	0.15	0.15
		Double			0.10	0.10	0.10
	MPa 3-position		-	0.20	0.20	0.20	0.20
Port size	*1	P/A/B port	M5 Push-in fitting $\phi 4$, $\phi 6$	M5 Push-in fitting $\phi 4$, $\phi 6$	Rc1/8 Push-in fitting $\phi 6$, $\phi 8$	Rc1/4 Push-in fitting $\phi 8$, $\phi 10$	Rc3/8 Push-in fitting $\phi 10$, $\phi 12$
		R1/R2 port	M5	M5	Rc1/8	Rc1/4	Rc3/8
Response time	*2	2-position	30 or less	30 or less	30 or less	30 or less	30 or less
		3-position	-	60 or less	60 or less	60 or less	60 or less
Weight	g	2-position	70	70	115	214	325
		Single	110	110	155	315	435
	3-position		-	120	170	354	505

*1: As G and NPT threads can also be used for piping port screws, contact CKD for details.

*2: The response time is the value at 0.5 MPa working pressure, with no lubrication, and with the power ON. It depends on the pressure and the lubricant quality.

Flow characteristics

Model No.	Solenoid position		C[dm ³ /(s·bar)]	b
3KA1	2-position		0.65	0.37
4KA1	2-position		0.65	0.37
	3-position	All ports closed	0.60	0.32
		A/B/R connection	0.68	0.39
		P/A/B connection	0.61	0.36
4KA2	2-position		2.6	0.43
	3-position	All ports closed	2.3	0.43
		A/B/R connection	2.9	0.34
		P/A/B connection	2.3	0.42
4KA3	2-position		5.6	0.49
	3-position	All ports closed	4.1	0.60
		A/B/R connection	4.1	0.62
		P/A/B connection	4.2	0.68
4KA4	2-position		9.8	0.49
	3-position	All ports closed	8.2	0.54
		A/B/R connection	11	0.50
		P/A/B connection	8.4	0.54

*1: Effective cross-sectional area "S" and sonic conductance "C" are converted as $S \approx 5.0 \times C$.

*2: Flow characteristics are values when the port size is M5 (3KA1, 4KA1), Rc1/8 (4KA2), Rc1/4 (4KA3), or Rc3/8 (4KA4).

Ozone-proof specifications (Ending Page 5)

** - Voltage - **P11**

Coolant proof specifications (Catalog No.CC-N-375A)

- Special structure with outstanding oil and water resistance

** - **A** - Voltage

Copper and PTFE free specifications

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

** - Voltage - **P6**

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)
Ending

3KA1/4KA1 to 4 Series

Single valve; body piping

How to order

4KA2 **1** **0** - **06** - **M1** **B** - **AC100V**

● Single solenoid valve for manifold

4KA2 **1** **9** - **06** - **M1** **B** - **AC100V**

A Model No. **B** Solenoid position

C Port size

D Manual override

E Electrical connections
* Refer to page 1237 for the circuit diagram with surge suppressor/lamp.

[Table 1] Compact terminal box L/LS compatibility table

Code	Content	3KA1	4KA1	4KA2	4KA3	4KA4	Surge suppressor
L	Without lead wire	AC	●	●	●	●	
		DC			●	●	
	with surge suppressor/indicator lamp	AC					
		DC	●	●	●		Integrated
LS	Without lead wire	AC	●	●	●	●	Integrated
	with surge suppressor/indicator lamp	DC			●	●	Integrated

⚠ Precautions for model No. selection

*1 : The compact terminal boxes of 3KA1, 4KA1, and 4KA2 and the DC voltage models of L, and LS are equipped with a surge suppressor.

*2 : The surge suppressor for attachment is a suppression connector when the grommet lead wire is 24 VDC or less. (Refer to page 1236)

*3 : The surge suppressor can only be selected when the grommet lead wire or compact terminal box "B" has been selected for the electrical connections.

*4 : With regard to the printed model No., although the model No. when placing an order is "4KA□□9", the model No. listed on the product name plate will be "4KA□□0".

[Example of model No.]

4KA210-06-M1BP-AC100V

- A** Model : 4KA2
B Solenoid position : 2-position single
C Port size : Rc1/8
D Manual override : Locking manual override
E Electrical connections: Compact terminal box/without lead wire
F Other options : With mounting plate
G Voltage : 100 VAC 50/60 Hz

* Gasket/mounting screw attached *4

		A Model No.				
		3KA1	4KA1	4KA2	4KA3	4KA4
B Solenoid position	1		●	●	●	●
	2	●	●	●	●	●
	3		●	●	●	●
	4		●	●	●	●
	5		●	●	●	●
	11	●				

C Port size	Port	P/A/B port	R1/R2 port			
			(1) = M5 (2) = Rc1/8 (3) = Rc1/4 (4) = Rc3/8			
	M5	M5	(1)	(1)		
	06	Rc1/8			(2)	
	08	Rc1/4				(3)
	10	Rc3/8				(4)
	GS4	φ4 Push-in fitting	(1)	(1)		
	GS6	φ6 Push-in fitting	(1)	(1)	(2)	
	GS8	φ8 Push-in fitting			(2)	(3)
	GS10	φ10 Push-in fitting			(3)	(4)
	GS12	φ12 Push-in fitting				(4)

D	Blank	Non-locking manual override	●	●	●	●	●
	M1	Locking manual override	●	●	●	●	●

Electrical connections

Grommet lead wire						
Blank	Grommet lead wire (300 mm)	●	●	●	●	●
Compact terminal box						
B	Without lead wire		●	●	●	●
L	Without lead wire	Refer to [Table 1] at left for details. *1				
LS	No lead wire, with surge suppressor/lamp					
C type connector (lead wire lateral direction)						
C	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	Lead wire length (300 mm) with surge suppressor/lamp	●	●	●	●	●
C20	Lead wire length (500 mm) with surge suppressor/lamp	●	●	●	●	●
C21	Lead wire length (1000 mm) with surge suppressor/lamp	●	●	●	●	●
C22	Lead wire length (2000 mm) with surge suppressor/lamp	●	●	●	●	●
C23	Lead wire length (3000 mm) with surge suppressor/lamp	●	●	●	●	●
C3	Without lead wire, with surge suppressor/lamp	●	●	●	●	●
D type connector (lead wire upward direction)						
D	Lead wire length (300 mm)	●	●	●	●	●
D00	Lead wire length (500 mm)	●	●	●	●	●
D01	Lead wire length (1000 mm)	●	●	●	●	●
D02	Lead wire length (2000 mm)	●	●	●	●	●
D03	Lead wire length (3000 mm)	●	●	●	●	●
D1	Without lead wire	●	●	●	●	●
D2	Lead wire length (300 mm) with surge suppressor/lamp	●	●	●	●	●
D20	Lead wire length (500 mm) with surge suppressor/lamp	●	●	●	●	●
D21	Lead wire length (1000 mm) with surge suppressor/lamp	●	●	●	●	●
D22	Lead wire length (2000 mm) with surge suppressor/lamp	●	●	●	●	●
D23	Lead wire length (3000 mm) with surge suppressor/lamp	●	●	●	●	●
D3	Without lead wire, with surge suppressor/lamp	●	●	●	●	●

F	Blank	No option	●	●	●	●	●
	P	Mounting plate (compatible only with 2-position single)	●	●	●	●	●
	S	Surge suppressor attached *2 *3	●	●	●	●	●

G Voltage	Standard	AC100V	100 VAC 50/60 Hz	●	●	●	●	●
		AC200V	200 VAC 50/60 Hz	●	●	●	●	●
		DC24V	24 VDC	●	●	●	●	●
		DC12V	12 VDC	●	●	●	●	●
	Option	AC110V	110 VAC 50/60 Hz	●	●	●	●	●
		AC220V	220 VAC 50/60 Hz	●	●	●	●	●
		* Other custom order products						
		AC24V		●	●	●	●	●

G Voltage	AC115V	●	●	●	●	●	●
	AC120V	●	●	●	●	●	●

MEMO

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)
Ending

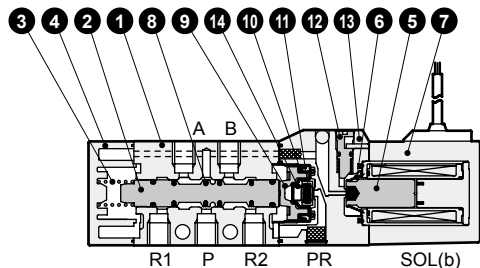
3KA1/4KA1 Series

Single valve; body piping

Internal structure and parts list

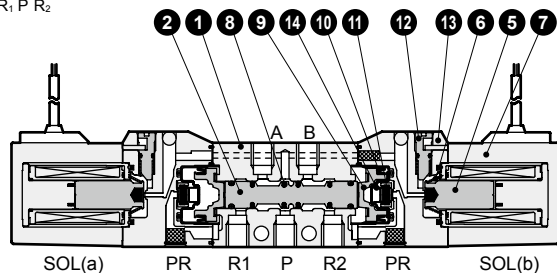
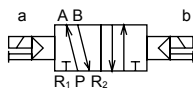
4KA110

- 2-position single



4KA120

- 2-position double



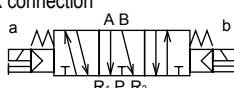
4KA130

- 3-position all ports closed



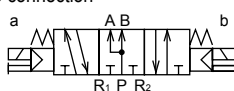
4KA140

- 3-position A/B/R connection



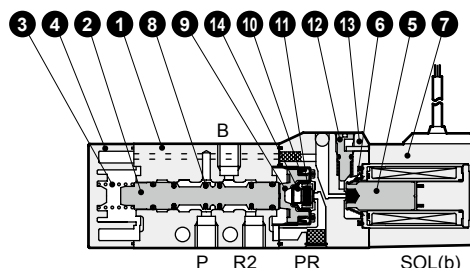
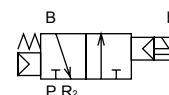
4KA150

- 3-position P/A/B connection



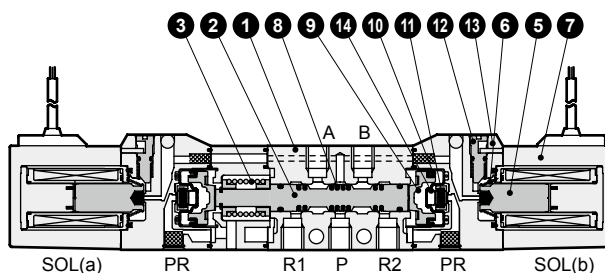
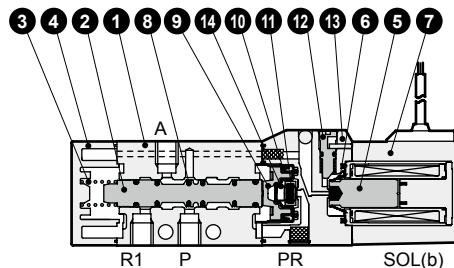
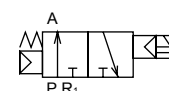
3KA110-NC

- 2-position single / NC



3KA1110-NO

- 2-position single / NO



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Valve seat spring	Stainless steel

Repair parts list

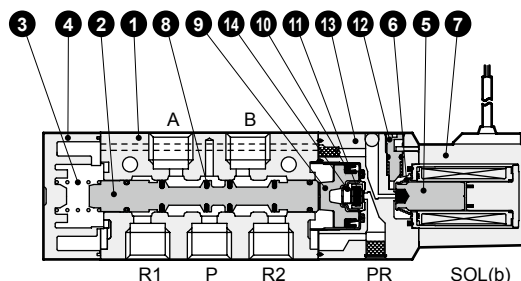
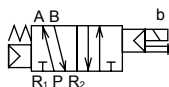
No./part name	2 8	9 10	5 6 7
Model No.	Spool assembly	Piston assembly	Coil assembly *
3KA110	4K9-110	4K9-151	4K1L- E electrical connection option code- Blank for grommet lead wire COIL - G Voltage
3KA1110			
3KA120	4K9-118		
4KA110		4K9-151	
4KA120	4K9-118		
4KA130		4K9-111	
4KA140	4K9-112		
4KA150			

* The compact terminal box and connector of the coil assembly will come assembled and included with the options of the descriptions indicated with model No. selection.

Internal structure and parts list

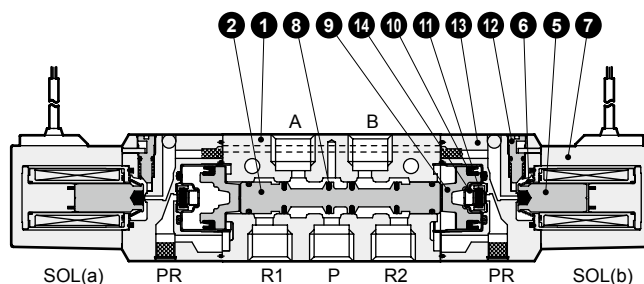
4KA210

- 2-position single



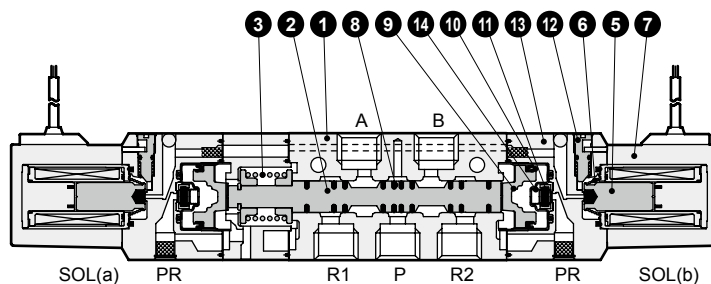
4KA220

- 2-position double



4KA230

- 3-position all ports closed



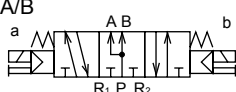
4KA240

- 3-position A/B/R connection



4KA250

- 3-position P/A/B connection



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Valve seat spring	Stainless steel

Repair parts list

No./part name	2 8	9 10	5 6 7
Model No.	Spool assembly	Piston assembly	Coil assembly *
4KA210	4K9-150	4K9-153	4K1L electrical connection option code Blank for grommet lead wire COIL - Voltage
4KA220	4K9-126		
4KA230	4K9-127		
4KA240	4K9-128		
4KA250	4K9-129	4K9-154	

* The compact terminal box and connector of the coil assembly will come assembled and included with the options of the descriptions indicated with model No. selection.

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)
Ending

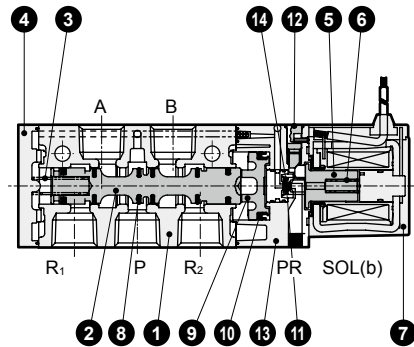
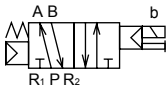
4KA3 Series

Single valve; body piping

Internal structure and parts list

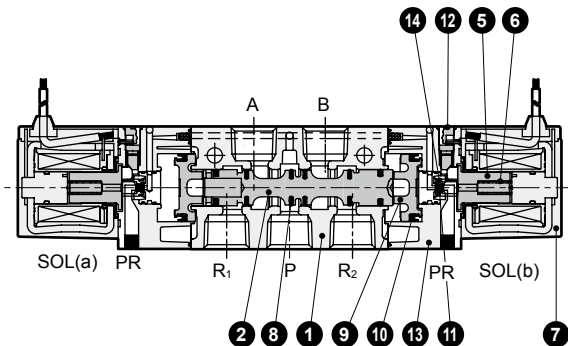
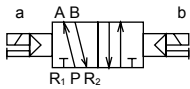
4KA310

● 2-position single



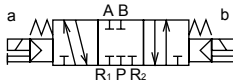
4KA320

● 2-position double



4KA330

● 3-position all ports closed



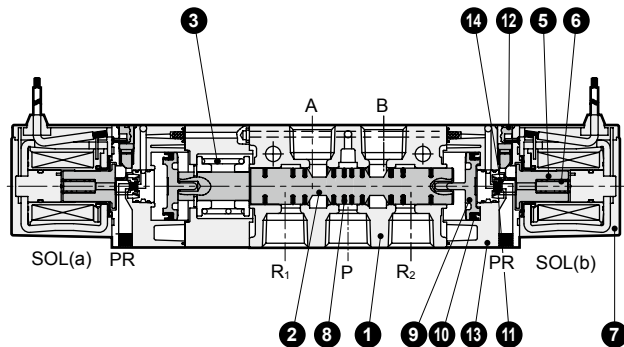
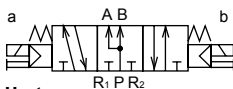
4KA340

● 3-position A/B/R connection



4KA350

● 3-position P/A/B connection



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Valve seat spring	Stainless steel

Repair parts list

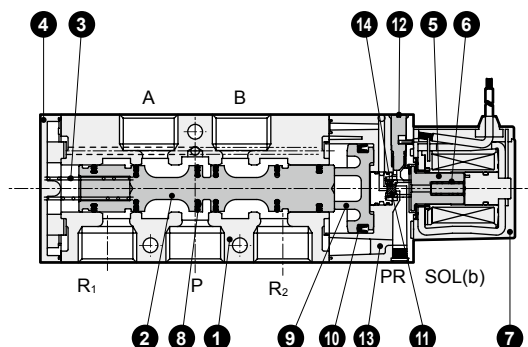
No./part name	2 8	9 10	5 6 7
Model No.	Spool assembly	Piston assembly	Coil assembly *
4KA310	4K9-133	4K9-137	4K3- E electrical connection option code Blank for grommet lead wire COIL - G Voltage
4KA320		4K9-138	
4KA330			
4KA340			
4KA350			

* The terminal box and connector of the coil assembly will come assembled and included with the options of the descriptions indicated with model No. selection.

Internal structure and parts list

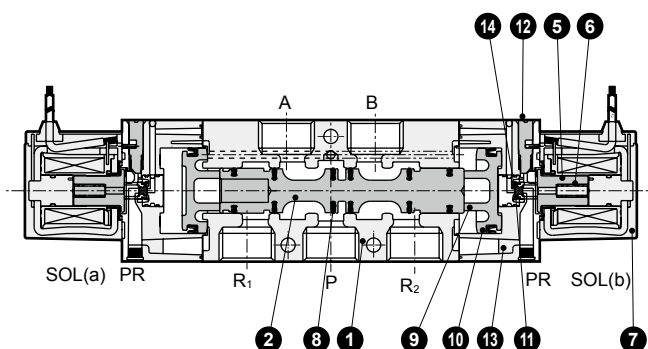
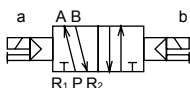
4KA410

- 2-position single



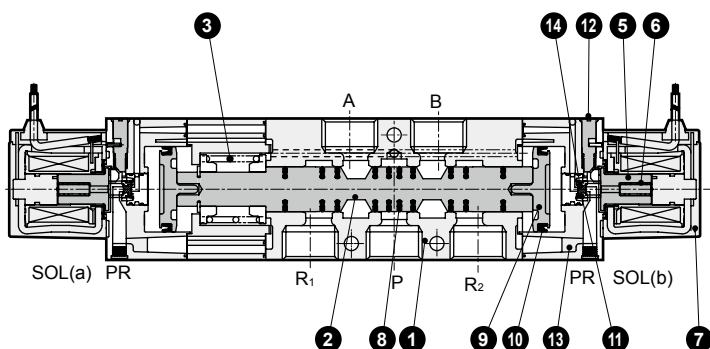
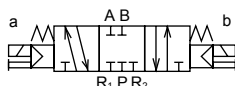
4KA420

- 2-position double



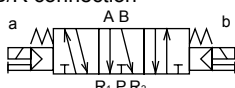
4KA430

- 3-position all ports closed



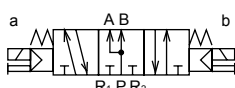
4KA440

- 3-position A/B/R connection



4KA450

- 3-position P/A/B connection



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Valve seat spring	Stainless steel

Repair parts list

No./part name	2 8	9 10	5 6 7
Model No.	Spool assembly	Piston assembly	Coil assembly *
4KA410	4K9-140	4K9-144	4K3- E electrical connection option code Blank for grommet lead wire COIL - G Voltage
4KA420			
4KA430	4K9-141	4K9-145	
4KA440	4K9-142		
4KA450	4K9-143		

* The terminal box and connector of the coil assembly will come assembled and included with the options of the descriptions indicated with model No. selection.

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)
Ending

3KA1 Series

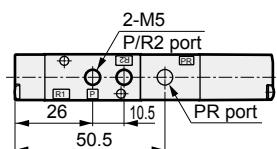
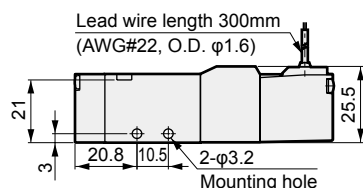
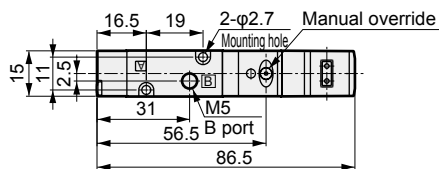
Single valve; body piping

Dimensions

3KA110



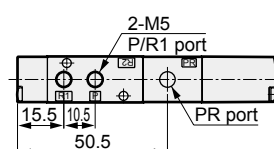
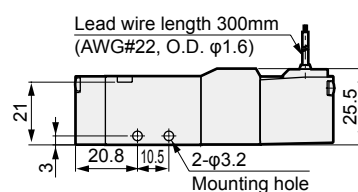
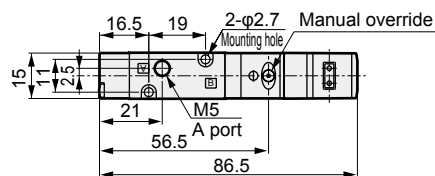
● 2 position NC single: grommet lead wire



3KA1110



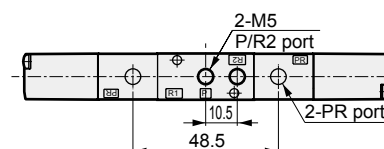
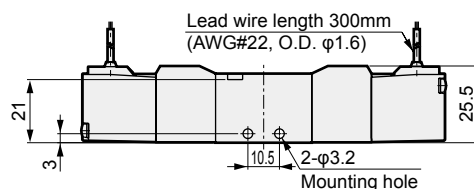
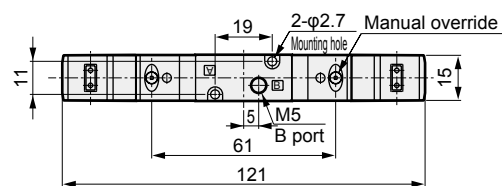
● 2 position NO single: grommet lead wire



3KA120

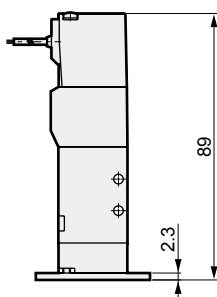
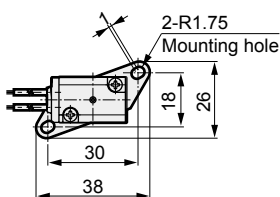


● 2 position NC double: grommet lead wire



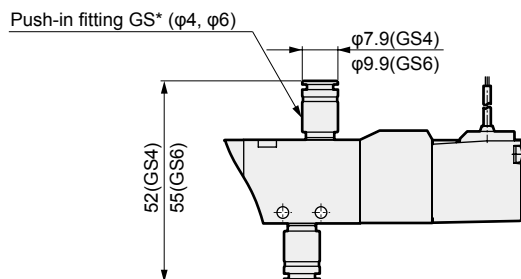
Material: Steel

Zinc chromate treatment



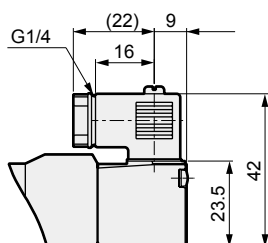
Dimensions

- $\phi 4/\phi 6$ push-in fitting: (GS4/GS6)

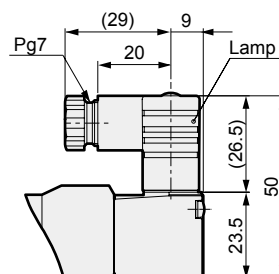


- Compact terminal box: (B [Without lamp]/L/LS [With lamp])

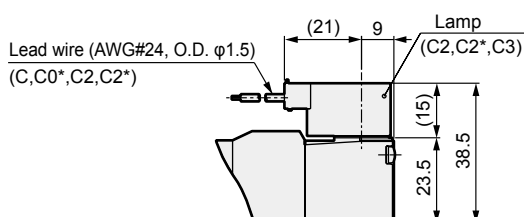
Without indicator lamp



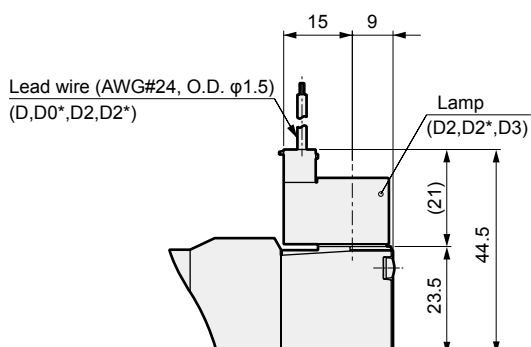
With indicator lamp



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



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



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)
Ending

4KA1 Series

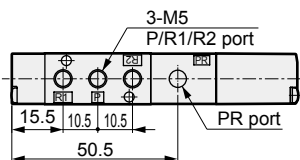
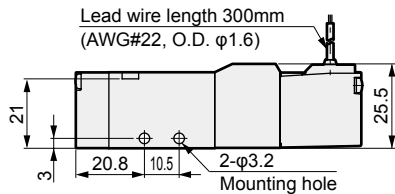
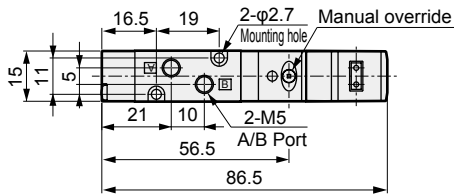
Single valve; body piping

Dimensions

4KA110



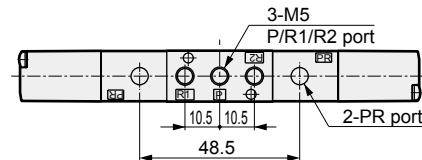
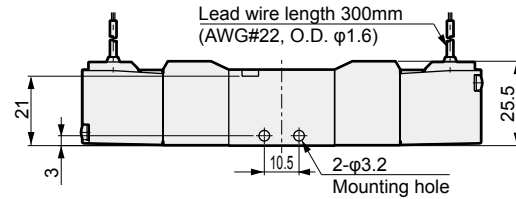
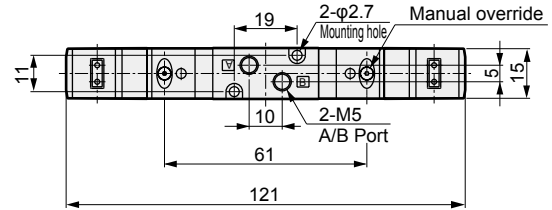
- 2-position single: grommet lead wire



4KA120



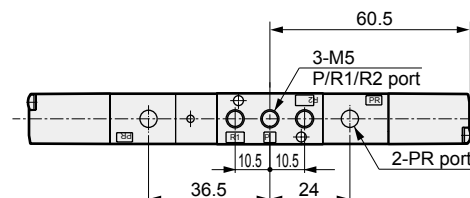
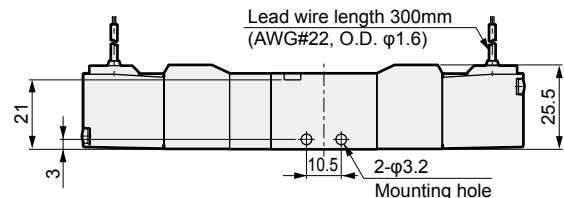
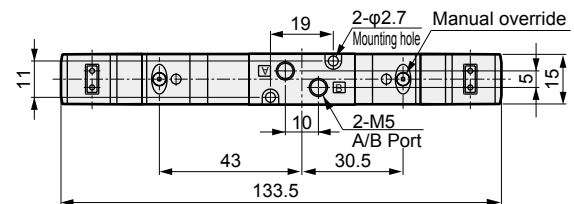
- 2-position double: grommet lead wire



4KA140³/₅



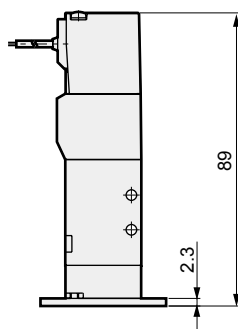
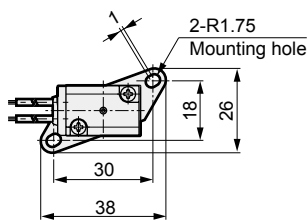
- 3-position: grommet lead wire



- Mounting plate: (P [2-position single only])

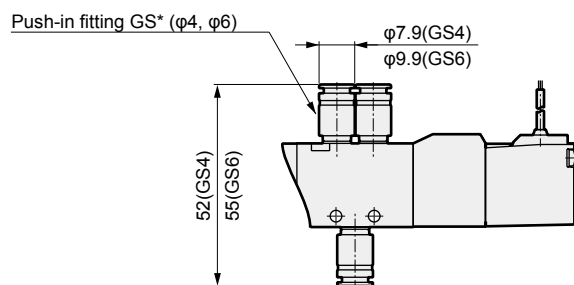
Material: Steel

Zinc chromate treatment



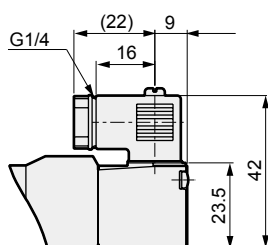
Dimensions

- $\phi 4/\phi 6$ push-in fitting: (GS4/GS6)

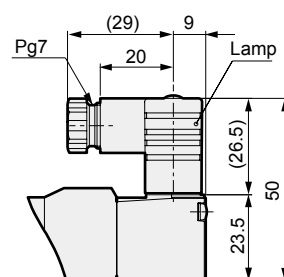


- Compact terminal box: (B [Without lamp]/L/LS [With lamp])

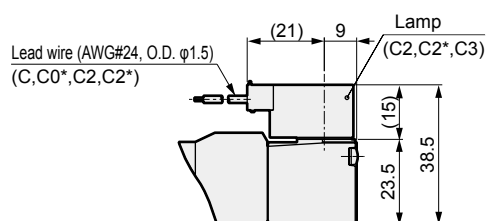
Without indicator lamp



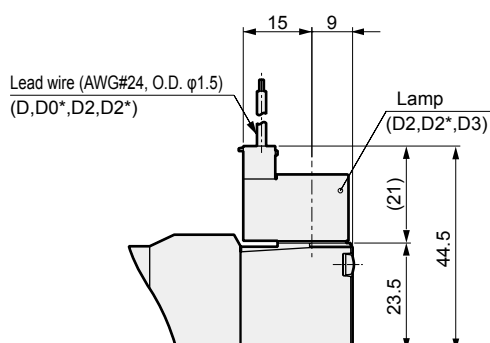
With indicator lamp



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



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



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)
Ending

4KA2 Series

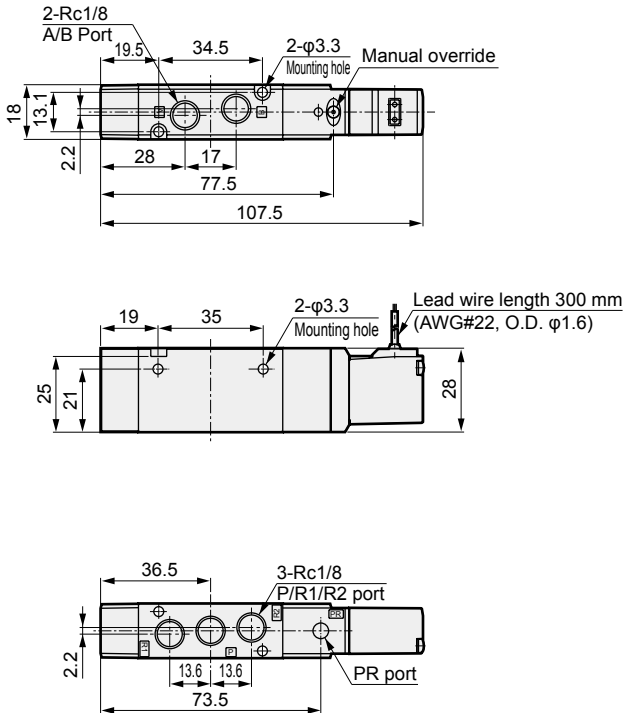
Single valve; body piping

Dimensions

4KA210

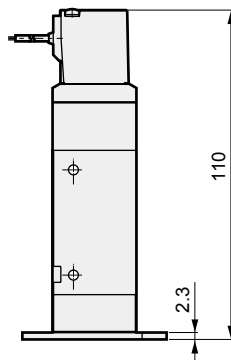
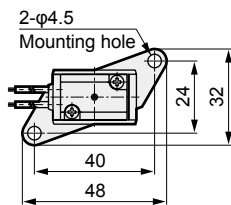


- 2-position single: grommet lead wire



- Mounting plate: (P [2-position single only])

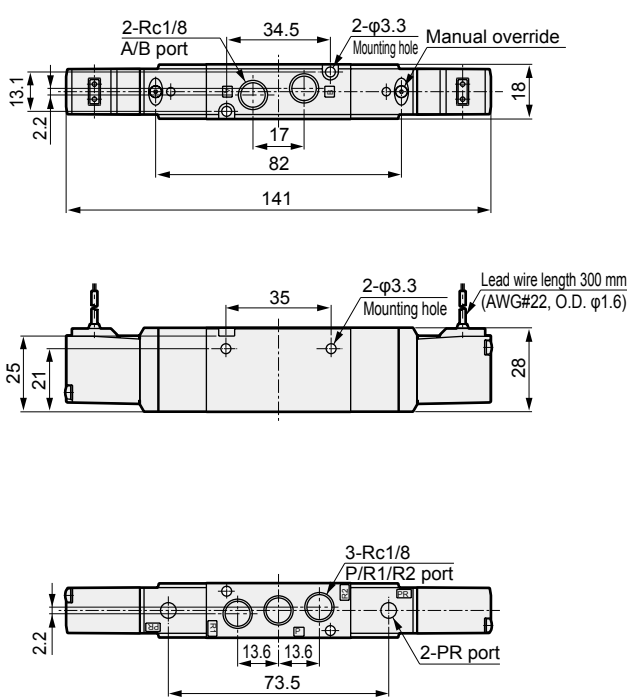
Material: Steel
Zinc chromate treatment



4KA220



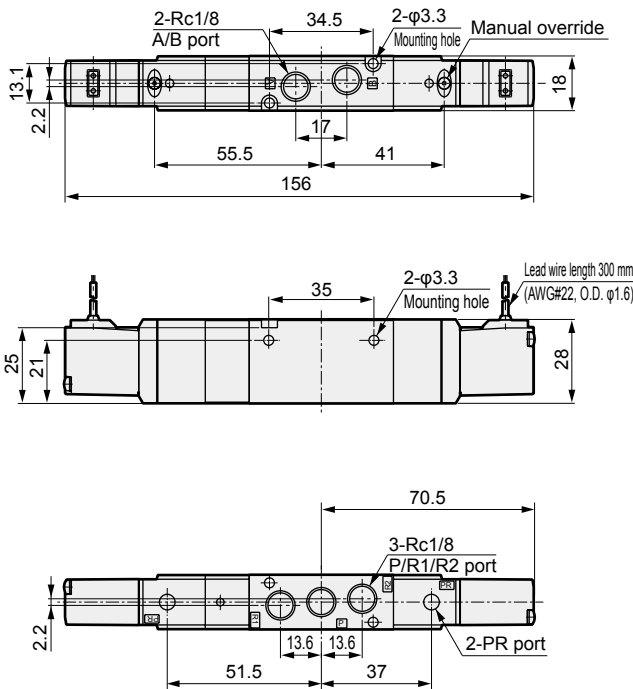
- 2-position double: grommet lead wire



4KA240

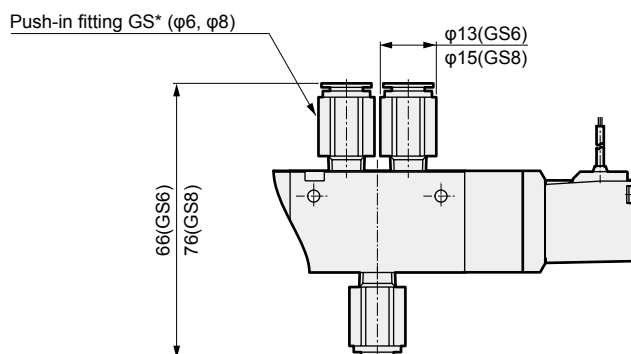


- 3-position: grommet lead wire



Dimensions

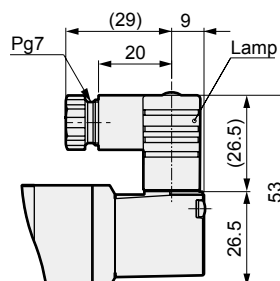
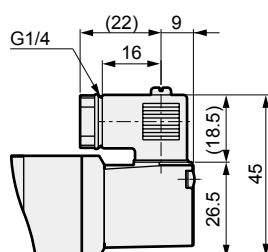
- $\phi 6/\phi 8$ push-in fitting: (GS6/GS8)



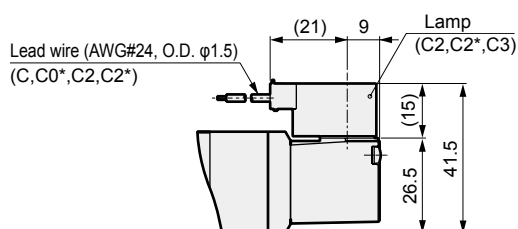
- Compact terminal box: (B [Without lamp]/L/LS [With lamp])

Without indicator lamp

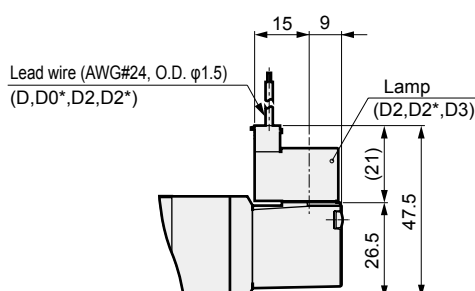
With indicator lamp



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



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



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)
Ending

4KA3 Series

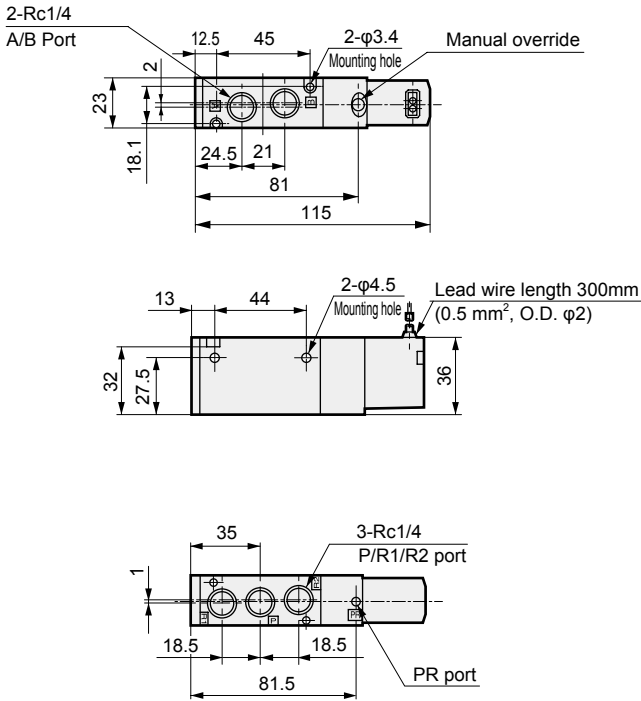
Single valve; body piping

Dimensions

4KA310



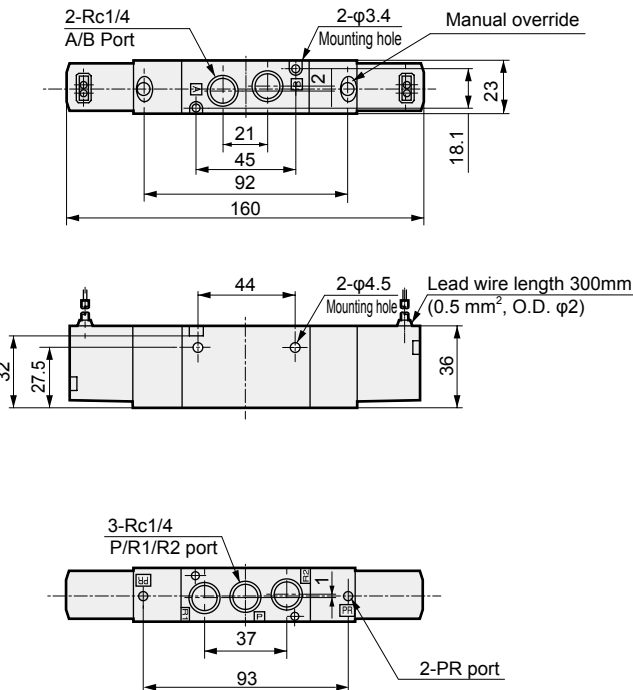
- 2-position single: grommet lead wire



4KA320



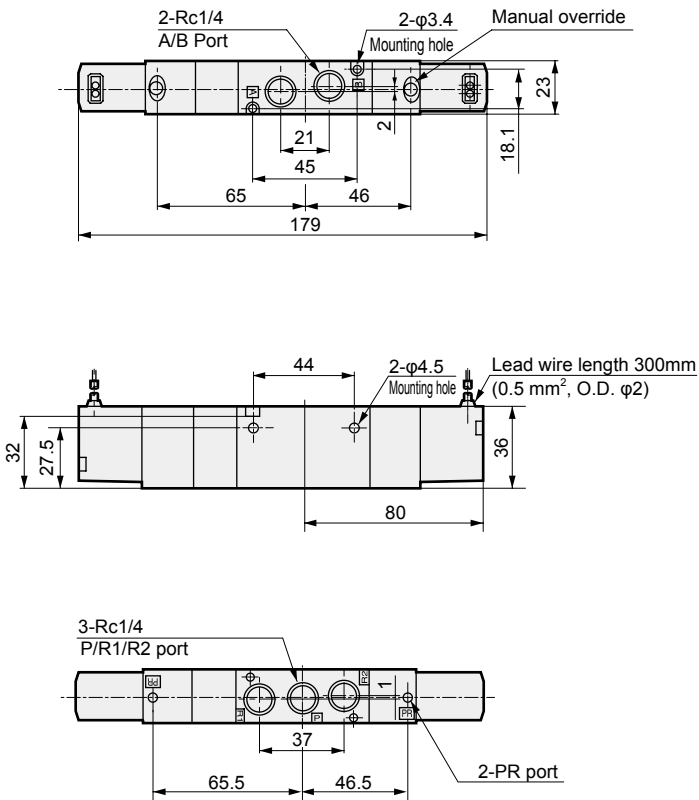
- 2-position double: grommet lead wire



4KA340³₅

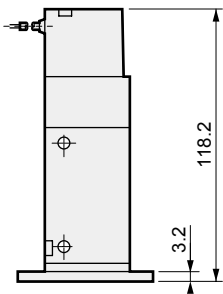
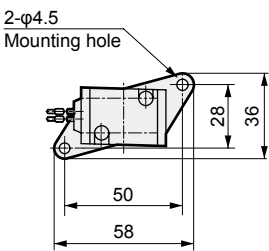


- 3-position: grommet lead wire



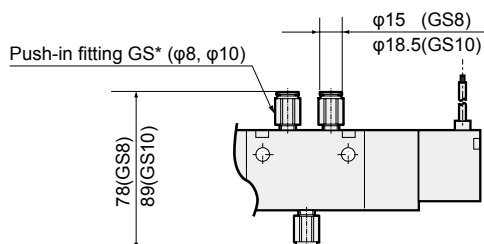
- Mounting plate: (P [2-position single only])

Material: Steel
Zinc chromate treatment

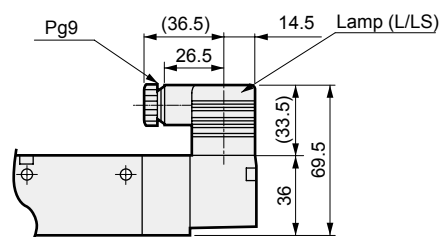


Dimensions

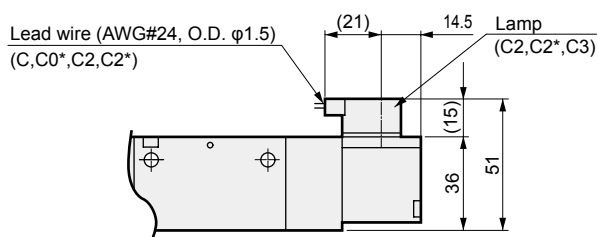
● $\phi 8/\phi 10$ push-in fitting: (GS8/GS10)



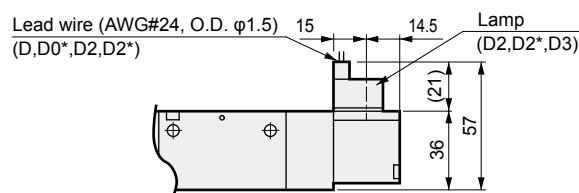
● Terminal box: (B/L/LS)



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



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



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)
Ending

4KA4 Series

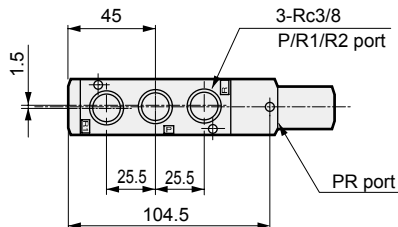
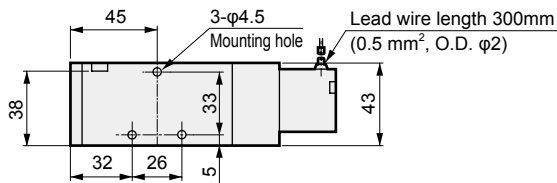
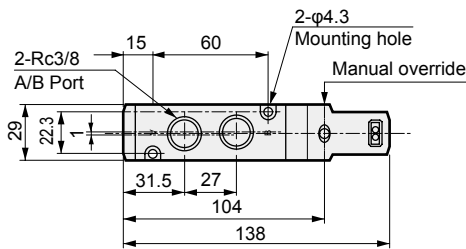
Single valve; body piping

Dimensions

4KA410



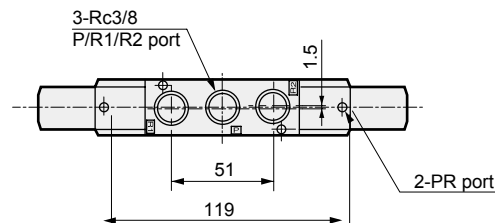
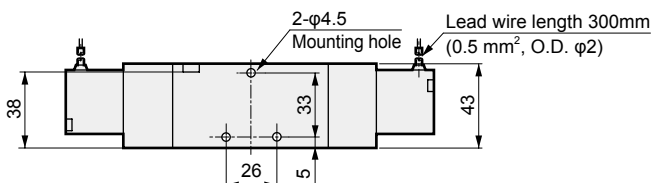
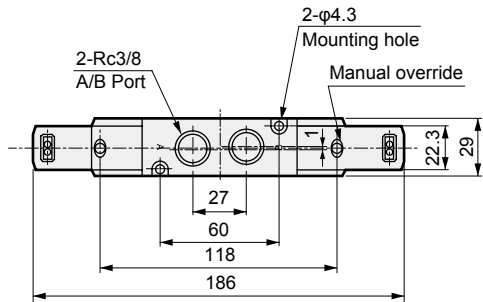
- 2-position single: grommet lead wire



4KA420



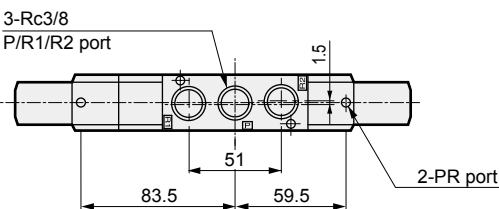
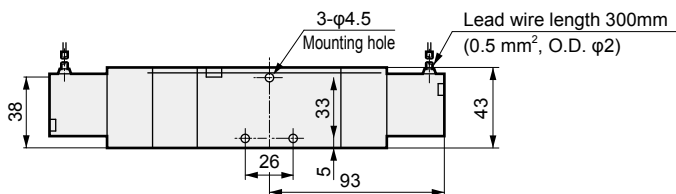
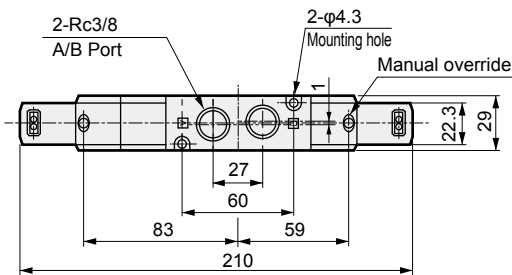
- 2-position double: grommet lead wire



4KA440³₅



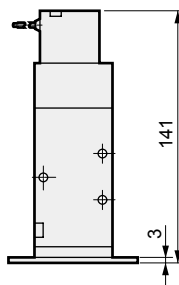
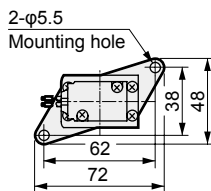
- 3-position: grommet lead wire



- Mounting plate: (P [2-position single only])

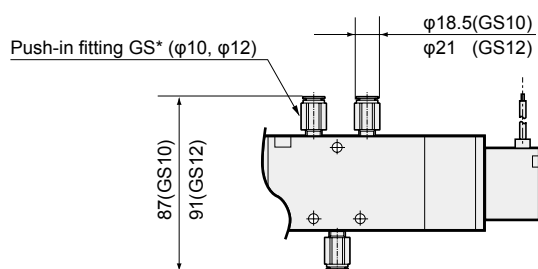
Material: Steel

Zinc chromate treatment

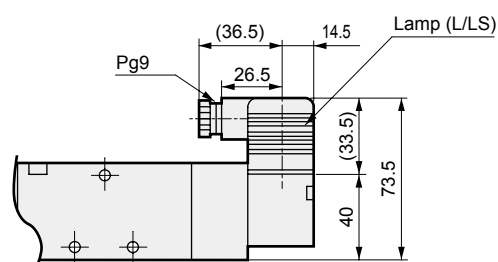


Dimensions

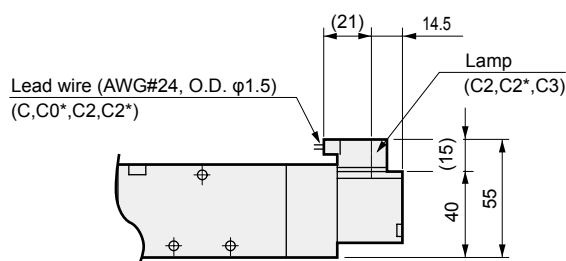
● With $\phi 10/\phi 12$ push-in fitting: (GS10/GS12)



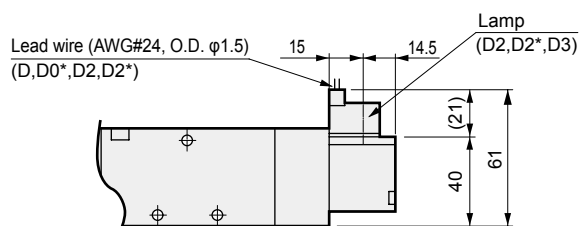
● Terminal box: (B/L/LS)



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



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



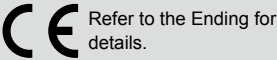
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys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



Single valve sub-plate piping
Pilot operated 5-port pneumatic valve

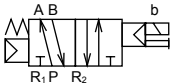
4KB1/2/3/4 Series

● Cylinder bore size: $\phi 20$ to $\phi 160$

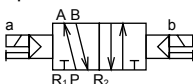


JIS symbol

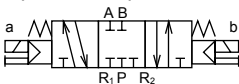
- 5-port valve
2-position single



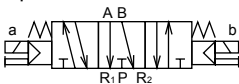
- 5-port valve
2-position double



- 5-port valve
3-position all ports closed



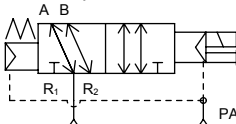
- 5-port valve
3-position A/B/R connection



- 5-port valve
3-position P/A/B connection



- External pilot



Common specifications

Descriptions	Content
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working press MPa	0.70 (≈ 100 psi, 7 bar)
Min. working press MPa	Refer to Individual specifications listed below
Proof pressure MPa	1.05 (≈ 150 psi, 10.5 bar)
Ambient temperature $^{\circ}\text{C}$	-5 (23°F) to 50 (122°F) (no freezing)
Fluid temperature $^{\circ}\text{C}$	5 (41°F) to 50 (122°F)
Lubrication	Not required
Degree of protection	Dust-proof
Vibration resistance m/s^2	50 or less
Shock resistance m/s^2	300 or less
Atmosphere	Cannot be used in corrosive gas environment.

*1: The working pressure when the external pilot (option code: K) has been selected is 0 to 0.7 MPa.
In addition, use the pilot with a pressure of 0.2 to 0.7 MPa.

Electrical specifications

Descriptions			4KB1/2	4KB3/4
Rated voltage	AC		100,200 (50 / 60 Hz)	
V	DC		24	
Voltage fluctuation range			±10%	
Starting current	AC	100 V	0.056/0.044	0.046/0.042
	A	AC 200 V	0.028/0.022	0.023/0.021
Holding current	AC	100 V	0.028/0.022	0.023/0.021
	A	AC 200 V	0.014/0.011	
	DC	24 V	0.075	
Power consumption	AC	100 V	1.8 / 1.4 (1.8 / 1.5)	1.6 / 1.3 (1.8 / 1.5)
	W	AC 200 V	1.8 / 1.4 (1.8 / 1.5)	1.6 / 1.3 (1.8 / 1.5)
	() : With indicator	DC 24 V	1.8(2.0)	
Thermal class			B (molded coil)	
Temperature rise °C			43	30

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

1 MPa $\approx$ 145.0 psi, 1 MPa = 10 bar

Descriptions	4KB1		4KB2	4KB3	4KB4
Min. working pressure MPa	2-position	Single	0.15	0.15	0.15
		Double	0.10	0.10	0.10
	3-position		0.20	0.20	0.20
Port size	P/A/B port		Rc1/8	Rc1/4,Rc3/8	Rc3/8,Rc1/2
	*1 R1/R2 port		Rc1/8	Rc1/4,Rc3/8	Rc3/8,Rc1/2
Response time ms	2-position	30 or less	30 or less	30 or less	30 or less
		3-position	60 or less	60 or less	60 or less
Weight g	2-position	Single	70	115	214
		Double	110	155	315
	3-position		120	170	354

*1: As G and NPT threads can also be used for piping port screws, contact CKD for details.

*2: The response time is the value at 0.5 MPa working pressure, with no lubrication, and with the power ON. It depends on the pressure and the lubricant quality.

Flow characteristics

Model No.	Solenoid position		C[dm ³ /(s·bar)]	b
4KB1	2-position		0.89	0.44
	3-position	All ports closed	0.63	0.50
		A/B/R connection	1.2	0.29
		P/A/B connection	0.75	0.39
4KB2	2-position		2.7	0.24
	3-position	All ports closed	2.4	0.29
		A/B/R connection	3.0	0.27
		P/A/B connection	2.4	0.34
4KB3	2-position		6.3	0.26
	3-position	All ports closed	5.6	0.27
		A/B/R connection	6.6	0.20
		P/A/B connection	5.9	0.27
4KB4	2-position		12	0.24
	3-position	All ports closed	11	0.27
		A/B/R connection	13	0.21
		P/A/B connection	10	0.22

*1: Effective cross-sectional area S and sonic conductance C are converted as $S \approx 5.0 \times C$.

Ozone-proof specifications (Ending Page 5)

** - Voltage - **P11**

Coolant proof specifications (Catalog No.CC-N-375A)

- Special structure with outstanding oil and water resistance

** - **A** - Voltage

Copper and PTFE free specifications

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

** - Voltage - **P6**

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)
Ending

4KB1 to 4 Series

Single valve; sub-plate piping

How to order

4KB2 **1** **0** - **06** - **M1** **B** - **AC100V**

● Single solenoid valve for manifold

4KB1 **1** **9** - **00** - **M1** **B** - **AC100V**

* Gasket/mounting screw attached

A Model No.

B Solenoid position

C Port size

D Manual override

E Electrical connections
* Refer to page 1237 for the circuit diagram with surge suppressor/lamp.

F Other options

G Voltage

[Table 1] Compact terminal box L/LS compatibility table

Code	Content	4KB1	4KB2	4KB3	4KB4	Surge suppressor
L	Without lead wire	With indicator lamp	AC	●	●	●
			DC	●	●	●
		with surge suppressor/indicator lamp	AC	●	●	●
			DC	●	●	Integrated
LS	Without lead wire	with surge suppressor/indicator lamp	AC	●	●	●
		with surge suppressor/indicator lamp	DC	●	●	Integrated

⚠ Precautions for model No. selection

- *1 : The DC voltage models of the compact terminal box "L" of 4KB1, 4KB2 are equipped with a surge suppressor.
- *2 : Consult with CKD when using a vacuum with the external pilot (K).
- *3 : The surge suppressor for attachment is a suppression connector when the grommet lead wire is 24 VDC or less. (Refer to page 1236)
- *4 : The surge suppressor can only be selected when the grommet lead wire or compact terminal box "B" has been selected for the electrical connections.

[Example of model No.]

4KB210-06-M1BK-AC100V

- A** Model : 4KB2
- B** Solenoid position : 2-position single
- C** Port size : Rc1/8
- D** Manual override : Locking manual override
- E** Electrical connections: Compact terminal box/without lead wire
- F** Other options : External pilot
- G** Voltage : 100 VAC 50/60 Hz

A Model No.

4KB1	4KB2	4KB3	4KB4
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●

Code	Content
B 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

Port size	Port	P/A/B port	R1/R2 port (1) = Rc1/8 (2) = Rc1/4 (3) = Rc3/8 (4) = Rc1/2			
C	06	Rc1/8	(1)	(2)		
	08	Rc1/4		(2)	(2)	
	10	Rc3/8			(3)	(3)
	15	Rc1/2				(4)

D Blank	Non-locking manual override	●	●	●	●
M1	Locking manual override	●	●	●	●

E	Grommet lead wire				
Blank	Grommet lead wire (300 mm)	●	●	●	●
	Compact terminal box				
B	Without lead wire	●	●	●	●
L	Without lead wire	Refer to [Table 1] at left for details.			
LS	No lead wire, with surge suppressor/lamp	*1			
	C type connector (lead wire lateral direction)				
C	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	Lead wire length (300 mm) with surge suppressor/lamp	●	●	●	●
C20	Lead wire length (500 mm) with surge suppressor/lamp	●	●	●	●
C21	Lead wire length (1000 mm) with surge suppressor/lamp	●	●	●	●
C22	Lead wire length (2000 mm) with surge suppressor/lamp	●	●	●	●
C23	Lead wire length (3000 mm) with surge suppressor/lamp	●	●	●	●
C3	Without lead wire, with surge suppressor/lamp	●	●	●	●
	D type connector (lead wire upward direction)				
D	Lead wire length (300 mm)	●	●	●	●
D00	Lead wire length (500 mm)	●	●	●	●
D01	Lead wire length (1000 mm)	●	●	●	●
D02	Lead wire length (2000 mm)	●	●	●	●
D03	Lead wire length (3000 mm)	●	●	●	●
D1	Without lead wire	●	●	●	●
D2	Lead wire length (300 mm) with surge suppressor/lamp	●	●	●	●
D20	Lead wire length (500 mm) with surge suppressor/lamp	●	●	●	●
D21	Lead wire length (1000 mm) with surge suppressor/lamp	●	●	●	●
D22	Lead wire length (2000 mm) with surge suppressor/lamp	●	●	●	●
D23	Lead wire length (3000 mm) with surge suppressor/lamp	●	●	●	●
D3	Without lead wire, with surge suppressor/lamp	●	●	●	●

F Blank	No option	●	●	●	●
K	External pilot *2	●	●	●	●
S	Surge suppressor attached *3 *4	●	●	●	●

Voltage	Standard	Option
AC100V	100 VAC 50/60 Hz	●
AC200V	200 VAC 50/60 Hz	●
DC24V	24 VDC	●
DC12V	12 VDC	●
AC110V	110 VAC 50/60 Hz	●
AC220V	220 VAC 50/60 Hz	●

* Other custom order products					
AC24V	●	●	●	●	●
AC115V	●	●	●	●	●
AC120V	●	●	●	●	●

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)
Ending

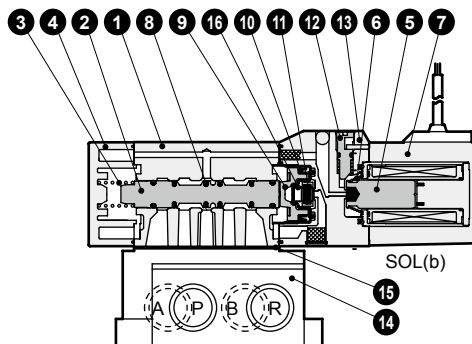
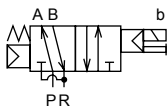
4KB1 Series

Single valve; sub-plate piping

Internal structure and parts list

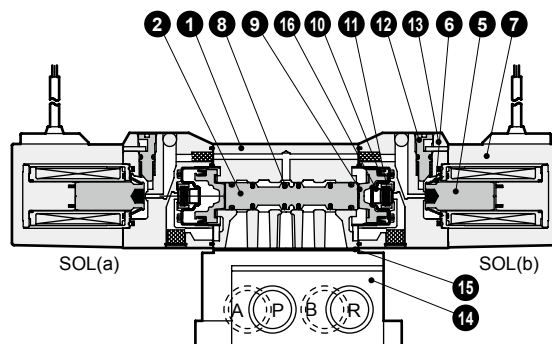
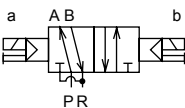
4KB110

● 2-position single



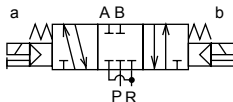
4KB120

● 2-position double



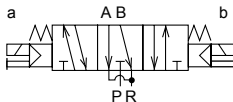
4KB130

● 3-position all ports closed



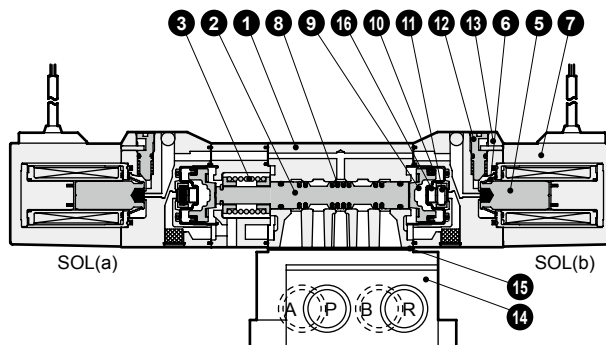
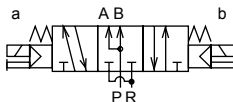
4KB140

● 3-position A/B/R connection



4KB150

● 3-position P/A/B connection



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Sub-plate	Aluminum alloy die-casting
15	Gasket	*2 Nitrile rubber
16	Valve seat spring	Stainless steel

Main parts list

No.	Component name	Model No.
14	Sub-plate kit	4KB110- B Port size - F Exterior Pilot -SUB-BASE-KIT

* Mounting screws are attached to the sub-plate kit.

Repair parts list

No./part name	2 8	9 10	5 6 7	
Model No.	Spool assembly	Piston assembly	Coil assembly *	
4KB110	4K9-110	4K9-151	4K1L- <table border="1"><tr><td>E</td></tr></table> electrical connection option code └ Blank for grommet lead wire	E
E				
4KB120	4K9-118			
4KB130	4K9-111	4K9-152		
4KB140	4K9-112			
4KB150	4K9-113		COIL - <table border="1"><tr><td>G</td></tr></table> Voltage	G
G				

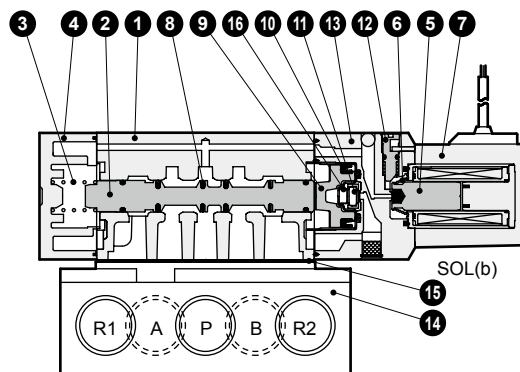
*1: The compact terminal box and connector of the coil assembly will come assembled and attached with the options of the descriptions indicated with model No. selection.

*2: Take care, as gasket **15** mounting has an orientation.

Internal structure and parts list

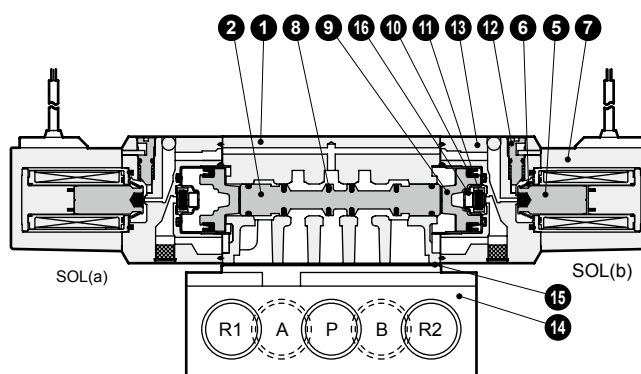
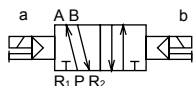
4KB210

- 2-position single



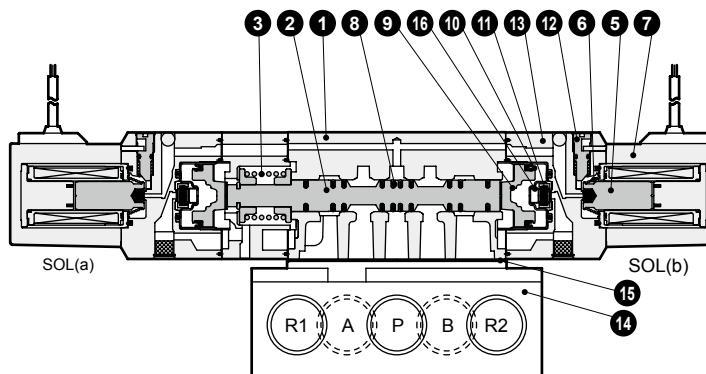
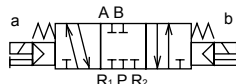
4KB220

- 2-position double



4KB230

- 3-position all ports closed



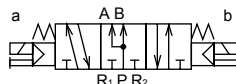
4KB240

- 3-position A/B/R connection



4KB250

- 3-position P/A/B connection



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Sub-plate	Aluminum alloy die-casting
15	Gasket	Nitrile rubber
16	Valve seat spring	Stainless steel

Main parts list

No.	Component name	Model No.
14	Sub-plate kit	4KB210- B Port size - F Exterior Pilot -SUB-BASE-KIT
15		

* Mounting screws are attached to the sub-plate kit.

Repair parts list

No./part name	2 8	9 10	5 6 7
Model No.	Spool assembly	Piston assembly	Coil assembly *
4KB210	4K9-150	4K9-153	4K1L-  electrical connection option code Blank for grommet lead wire
4KB220	4K9-126		
4KB230	4K9-127	4K9-154	
4KB240	4K9-128		
4KB250	4K9-129		

*1: The compact terminal box and connector of the coil assembly will come assembled and attached with the options of the descriptions indicated with model No. selection.

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)
Ending

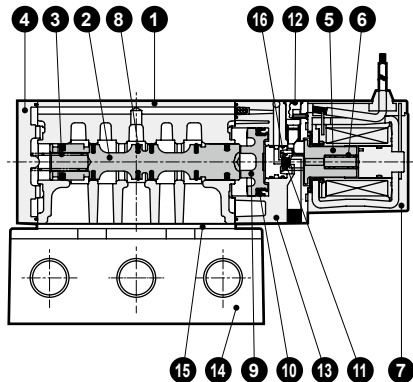
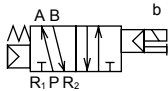
4KB3 Series

Single valve; sub-plate piping

Internal structure and parts list

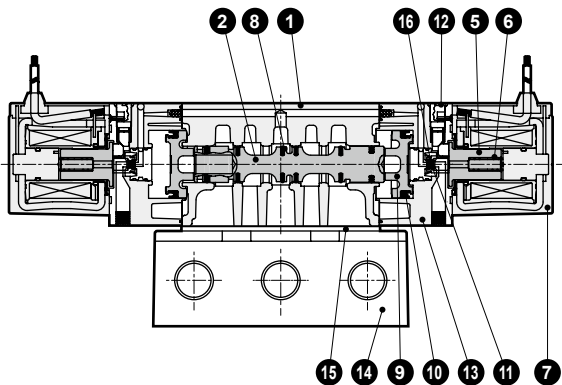
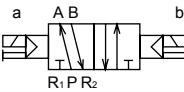
4KB310

● 2-position single



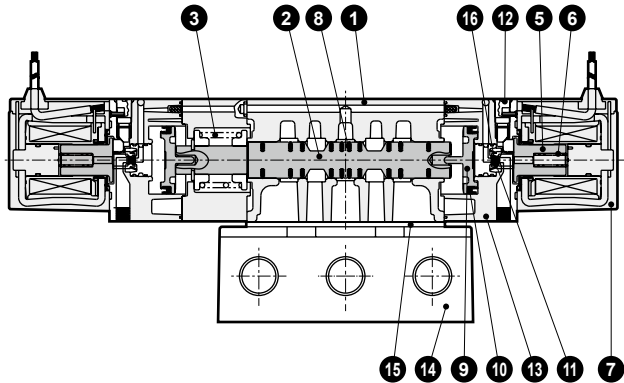
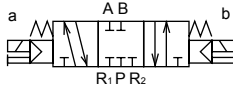
4KB320

● 2-position double



4KB330

● 3-position all ports closed



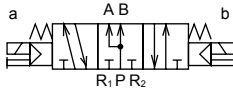
4KB340

● 3-position A/B/R connection



4KB350

● 3-position P/A/B connection



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Sub-plate	Aluminum alloy die-casting
15	Gasket *2	Nitrile rubber
16	Valve seat spring	Stainless steel

Main parts list

No.	Component name	Model No.
14	Sub-plate kit	4KB310- B Port size - F External pilot -SUB-BASE-KIT
15		

* Mounting screws are attached to the sub-plate kit.

Repair parts list

No./part name	2 8	9 10	5 6 7		
Model No.	Spool assembly	Piston assembly	Coil assembly *1		
4KB310	4K9-133	4K9-137	4K3- <table border="1"><tr><td>E</td></tr></table> electrical connection option code - ↑ Blank for grommet lead wire COIL - <table border="1"><tr><td>G</td></tr></table> Voltage	E	G
E					
G					
4KB320					
4KB330	4K9-134	4K9-138			
4KB340	4K9-135				
4KB350	4K9-136				

* 1: The terminal box and connector of the coil assembly will come assembled and included with the options of the descriptions indicated with model No. selection.

* 2: Take care, as gasket **15** mounting has an orientation.

Internal structure and parts list

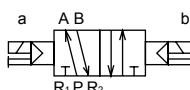
4KB410

- 2-position single



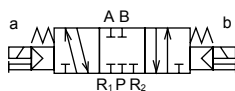
4KB420

- 2-position double



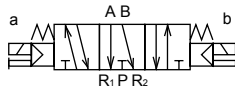
4KB430

- 3-position all ports closed



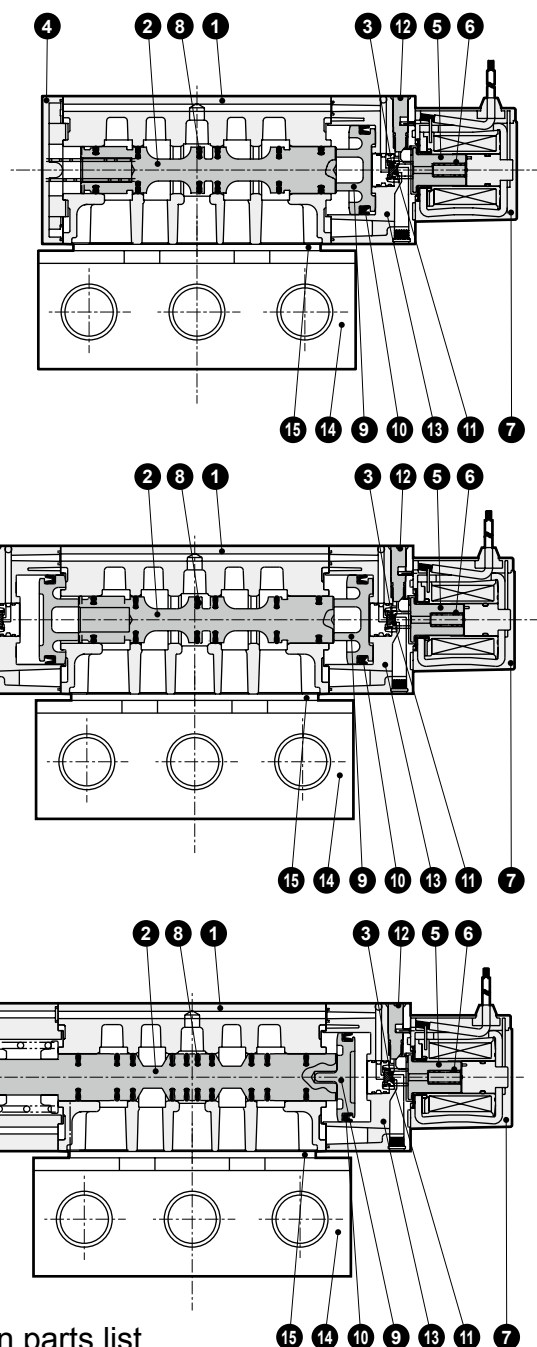
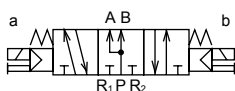
4KB440

- 3-position A/B/R connection



4KB450

- 3-position P/A/B connection



Main parts list

No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	Valving element (spool)	Aluminum
3	Valve spring	Stainless steel
4	Cap	Resin
5	Plunger	-
6	Plunger spring	-
7	Coil assembly	-
8	Spool packing	Nitrile rubber
9	Piston	Resin
10	Piston packing	Nitrile rubber
11	Valve seat	Nitrile rubber
12	Manual button	Resin
13	Pilot valve	Resin
14	Sub-plate	Aluminum alloy die-casting
15	Gasket	Nitrile rubber
16	Valve seat spring	Stainless steel

Main parts list

No.	Component name	Model No.
14	Sub-plate kit	4KB410- B Port size - F External pilot - SUB-BASE-KIT
15		

* Mounting screws are attached to the sub-plate kit.

Repair parts list

No./part name	2 8	9 10	5 6 7
Model No.	Spool assembly	Piston assembly	Coil assembly *
4KB410	4K9-140	4K9-144	4K3- E electrical connection option code - Blank for grommet lead wire
4KB420	4K9-141	4K9-145	COIL - G Voltage
4KB430	4K9-142		
4KB440	4K9-143		
4KB450			

* 1: The plunger assembly is attached with the coil assembly. As there are limitations with the combinations of coils and plungers, do not replace these.

* 2: The terminal box and connector of the coil assembly will come assembled and included with the options of the descriptions indicated with model No. selection.

* 3: When combining a coil assembly into a valve, contact CKD for precautions regarding the work.

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)
Ending

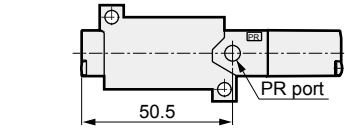
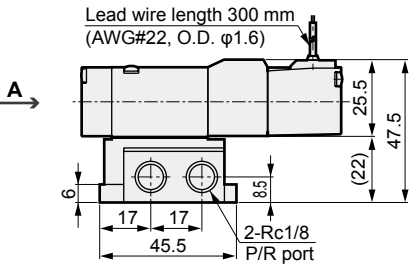
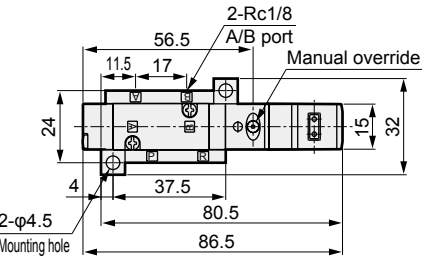
4KB1 Series

Single valve; sub-plate piping

Dimensions 

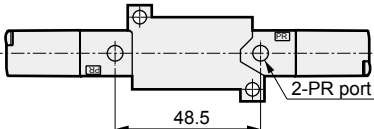
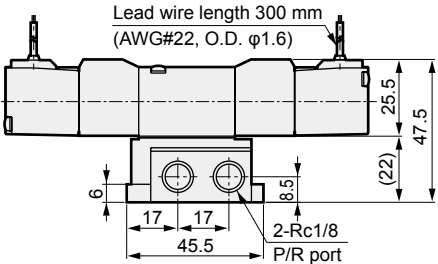
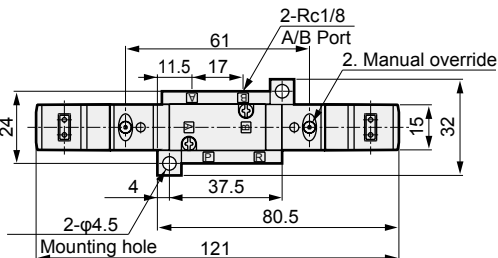
4KB110

● 2-position single: grommet lead wire



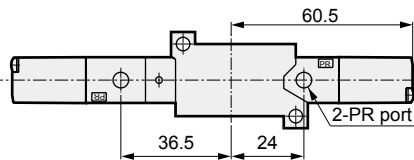
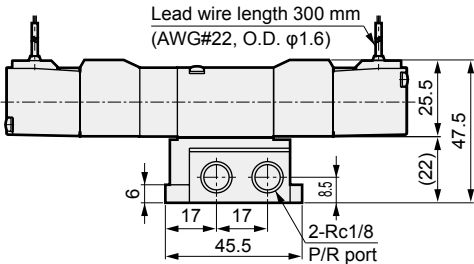
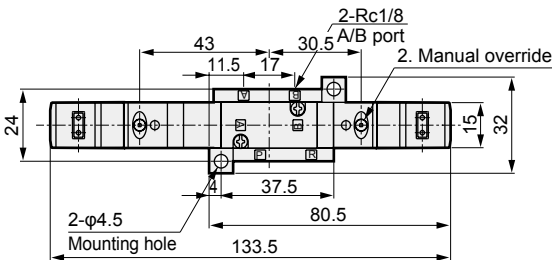
4KB120

● 2-position double: grommet lead wire



4KB140

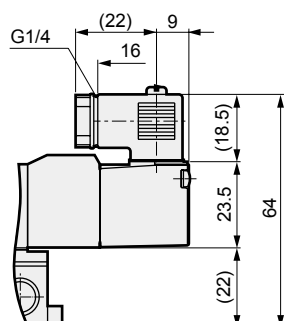
● 3-position: grommet lead wire



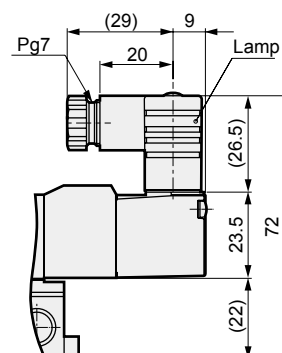
Dimensions

- Compact terminal box: (B [Without lamp]/L/LS [With lamp])

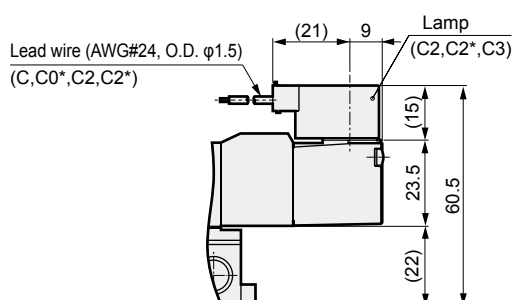
Without indicator lamp



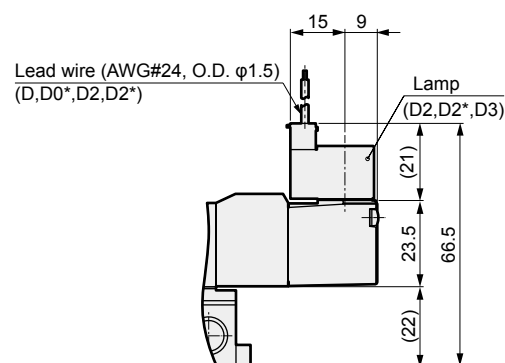
With indicator lamp



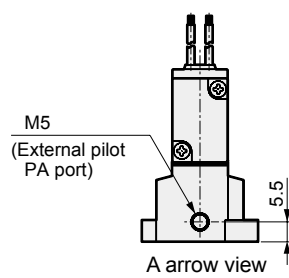
- C type connector: (C/C1/C0*/C2/C2*/C3)



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



- External pilot: (K)



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)
Ending

4KB2 Series

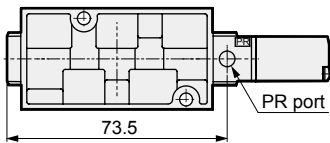
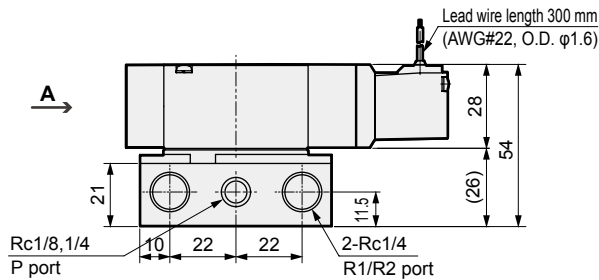
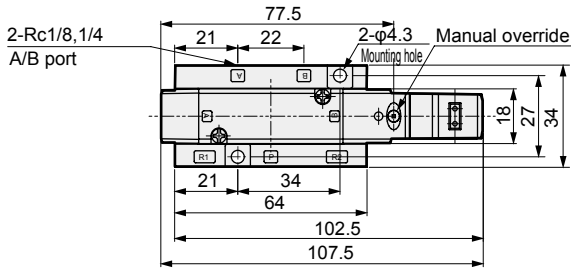
Single valve; sub-plate piping



Dimensions

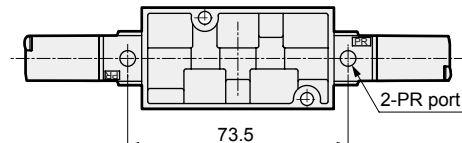
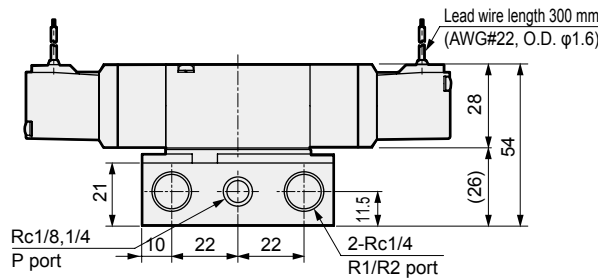
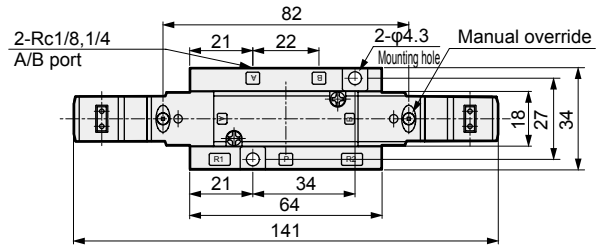
4KB210

- 2-position single: grommet lead wire



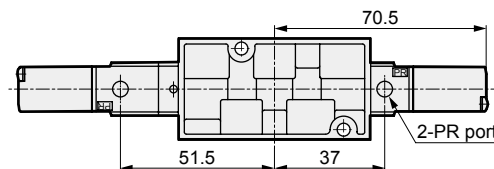
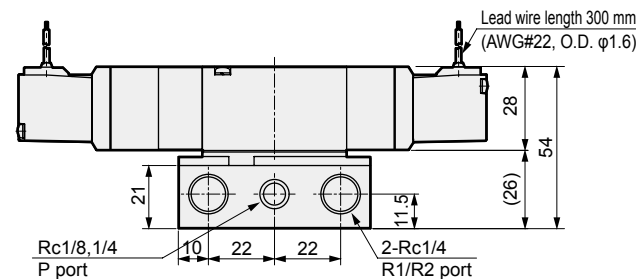
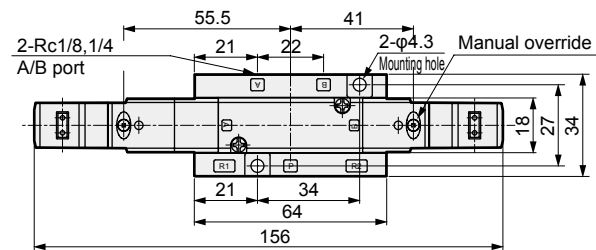
4KB220

- 2-position double: grommet lead wire



4KB240³₅

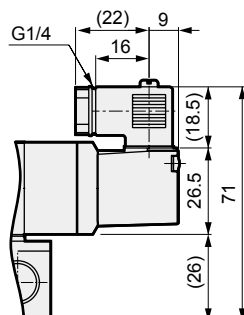
- 3-position: grommet lead wire



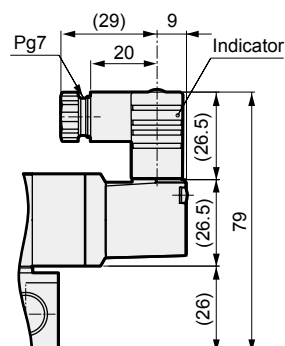
Dimensions

- Compact terminal box: (B [Without lamp]/L/LS [With lamp])

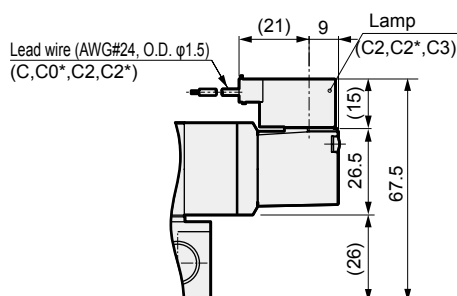
Without indicator lamp



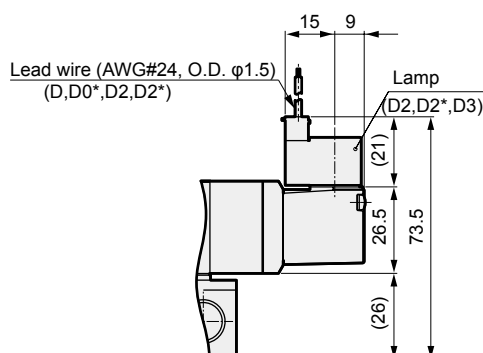
With indicator lamp



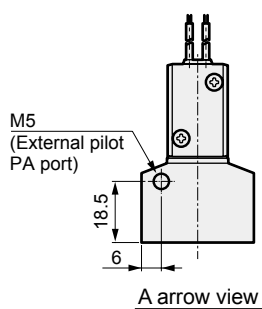
- C type connector: (C/C1/C0*/C2/C2*/C3)



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



- External pilot: (K)



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)
Ending

4KB3 Series

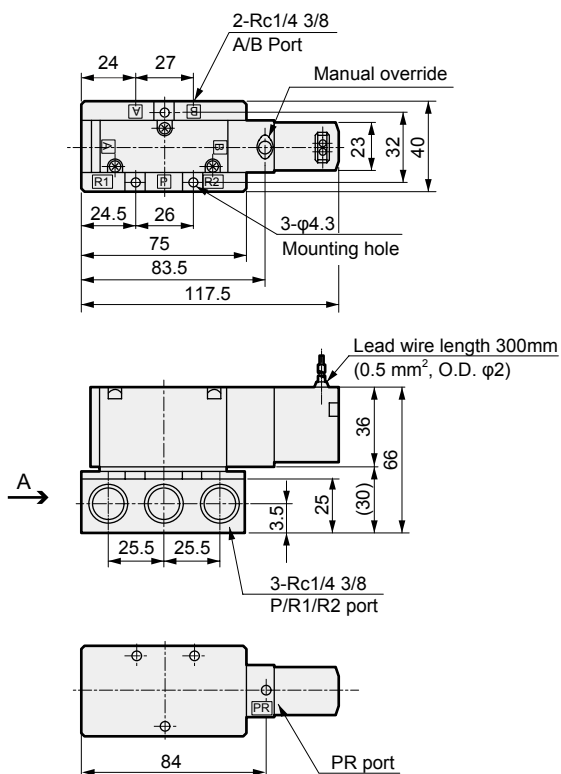
Single valve; sub-plate piping

Dimensions



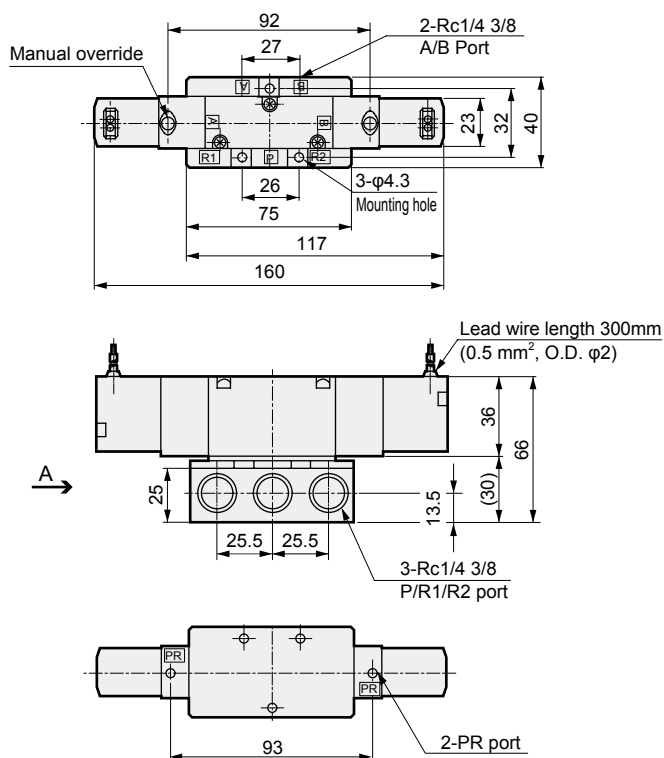
4KB310

- 2-position single: grommet lead wire



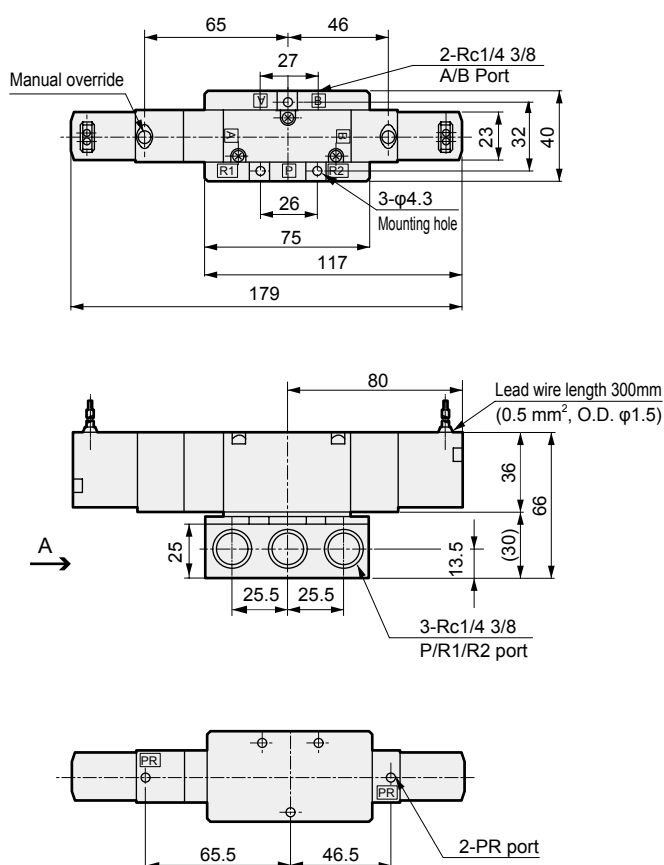
4KB320

- 2-position double: grommet lead wire



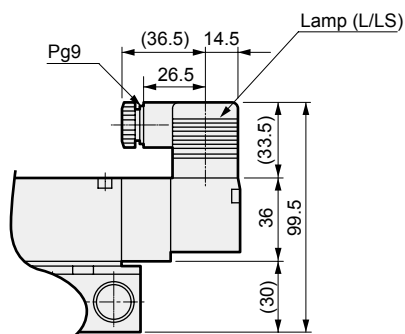
4KB340³₅

- 3-position: grommet lead wire

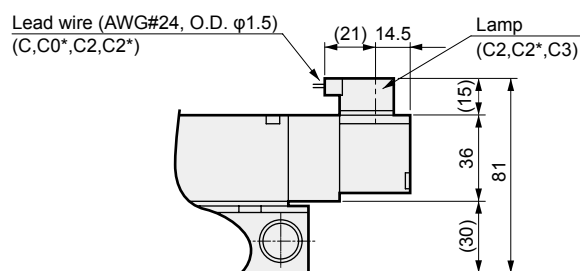


Dimensions

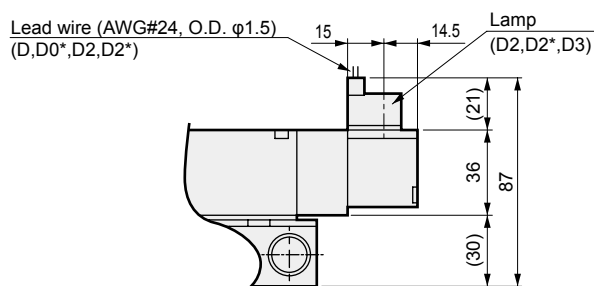
● Terminal box: (B/L/LS)



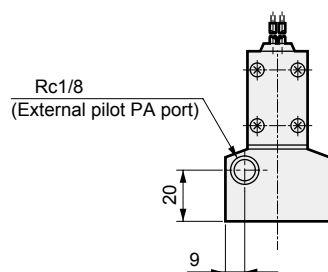
● C type connector: (C/C1/C0*/C2/C2*/C3)



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



● External pilot: (K)



A arrow view

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)
Ending

4KB4 Series

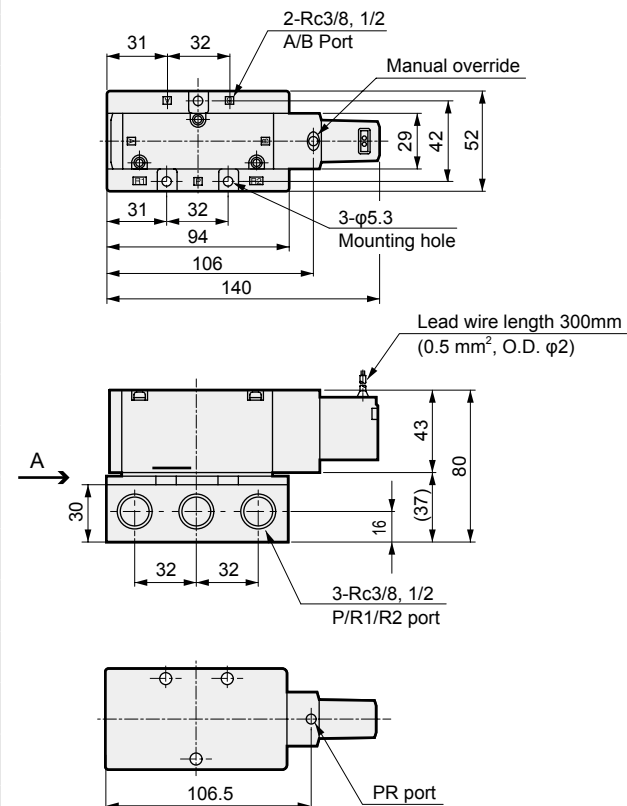
Single valve; sub-plate piping

Dimensions



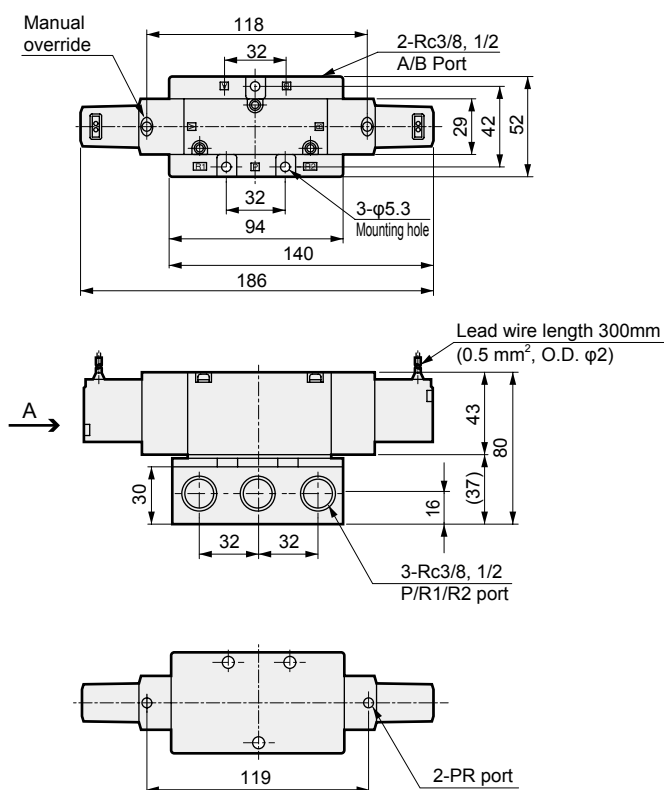
4KB410

- 2-position single: grommet lead wire



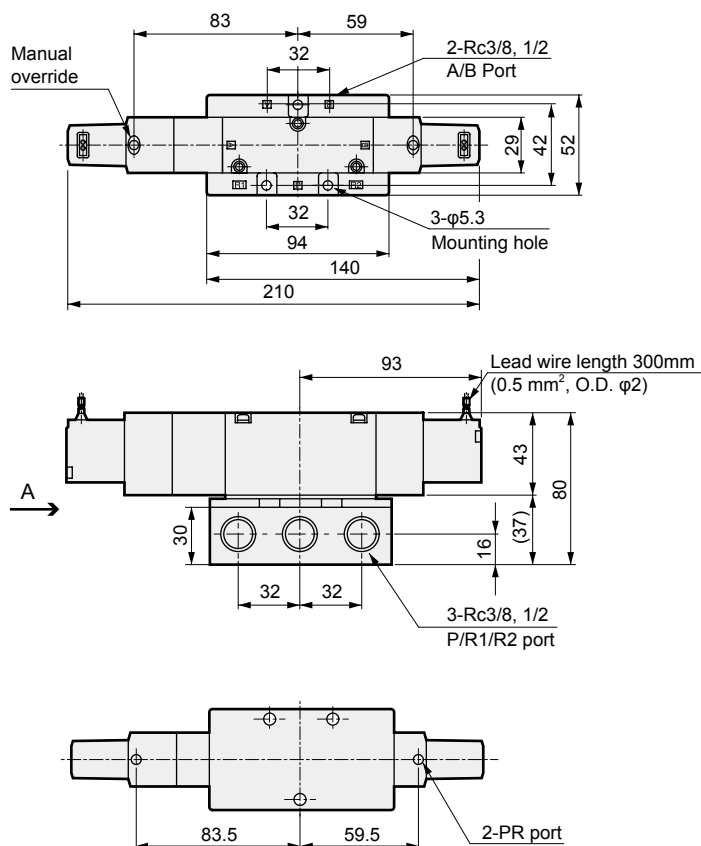
4KB420

- 2-position double: grommet lead wire



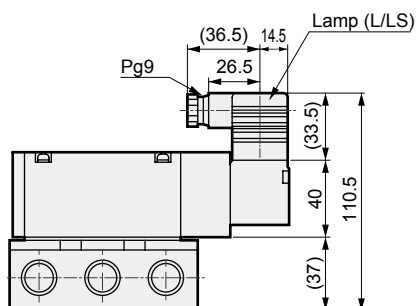
4KB4³₅

- 3-position: grommet lead wire

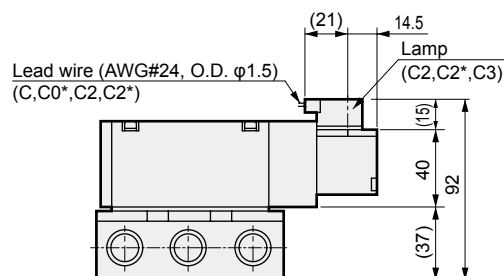


Dimensions

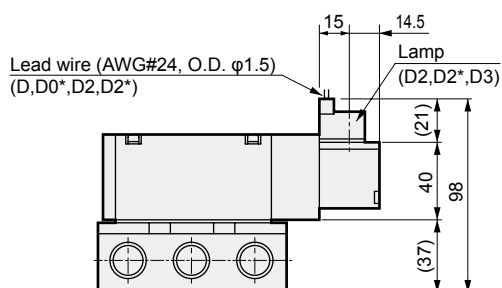
● Terminal box: (B/L/LS)



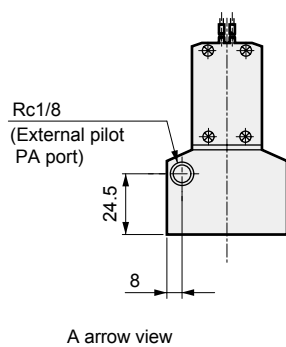
● C type connector: (C/C1/C0*/C2/C2*/C3)



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



● External pilot: (K)



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)
Ending