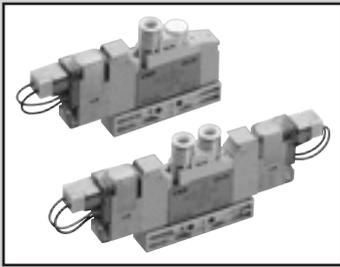


SCPD3  
SCM  
SSD2  
MDC2  
SMG  
LCM  
LCR  
LCG  
LCX  
STM  
STG  
STR2  
MRL2  
GRC  
Cylinder switch  
MN3E  
MN4E  
4GA/B  
M4GA/B  
MN4GA/B  
F.R (module unit)  
Clean F.R  
Precision R  
Press gauge  
Diff. press gauge  
Electro-pneumatic R  
Speed controller  
Auxiliary valve  
Fitting/tube  
Clean air unit  
Pressure sensor  
Flow rate sensor  
Valve for air blow  
Ending



Discrete valve  
Body piping

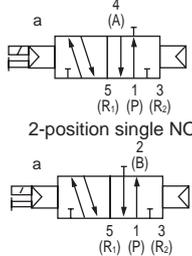
# 3GA1, 2, 3/4GA1, 2, 3 Series

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

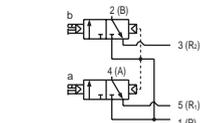


## JIS symbol

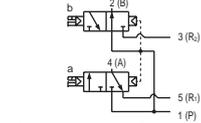
● 3-port valve  
2-position single NC



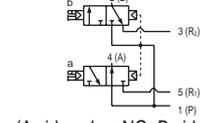
● Dual 3-port valve integrated  
(A side valve: NC, B side valve: NC)



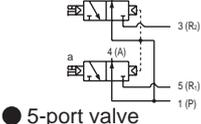
(A side valve: NC, B side valve: NO)



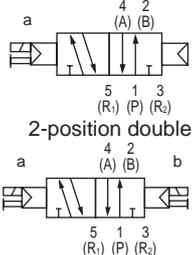
(A side valve: NO, B side valve: NC)



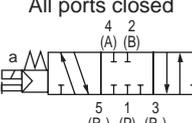
(A side valve: NO, B side valve: NO)



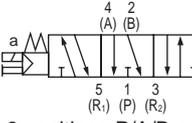
● 5-port valve  
2-position single



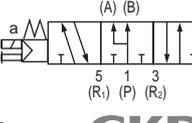
2-position double



3-position  
All ports closed



3-position A/B/R connection



3 positions P/A/B connection



## Structure and material restriction

	Structure	Material restriction			Model No.
P7 Series	Dust generation preventing				— P70
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— P74 Custom order product

## Common specifications

Item	Description
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	0.7
Min. working pressure MPa	0.2
Proof pressure MPa	1.05
Ambient temperature °C	-5 to 55 (no freezing)
Fluid temperature °C	5 to 55
Manual override	Non-locking/locking common (standard)
Pilot exhaust method	Main valve/pilot valve common exhaust
Lubrication *1	Not required
Degree of protection *2	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 environments

\*1: Use turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.

\*2: Avoid water drops or oil, etc., during use. IP65 (water jet proof) applies for DIN terminal box specifications. However, the specified outer diameter of the cord and tightening torque must be used for fixing in place.

## Electrical specifications

Item	Description	Description					
		DC 24	DC 12	DC 5	DC 3	AC 100	AC 200
Rated voltage V							
Voltage fluctuation range		±10%					
Holding current (A)	Standard	0.015 (0.017)	0.030 (0.034)	0.072 (0.082)	0.120 (0.136)	0.009 (0.009)	0.006 (0.006)
	(*)3 With low exoergic/energy circuit	0.005	0.010	-	-	-	-
Power consumption W	Standard	0.35(0.40)		0.35(0.40)		-	
	(*)3 With low exoergic/energy circuit	0.1		-		-	
Apparent power VA (*)3 (*4)	Standard	-		-		0.93 (0.98)	1.40
		energy circuit					
Thermal class	Standard						
Surge suppressor	Lamp (option)						
Indicator	Lamp (option)						

\*3: Values in ( ) apply when a lamp is attached. In addition, the type with low exoergic/energy circuit is only available with lamp.

\*4: 200 VAC is the value of DIN terminal box (with lamp).

## Individual specifications

Port size		3GA1/4GA1	3GA2/4GA2	3GA3/4GA3
Rc thread, M5	A/B port	Barbed fitting $\varnothing 1.8$ , $\varnothing 4$ , $\varnothing 6$ M5	Push-in fitting $\varnothing 4$ , $\varnothing 6$ , $\varnothing 8$ Rc1/8	Push-in fitting $\varnothing 6$ , $\varnothing 8$ , $\varnothing 10$ Rc1/4
	P/R1/R2 port	M5	Rc1/8	Rc1/4
NPT thread, M5	A/B port	Push-in fitting $\varnothing 1/8$ inch, $\varnothing 5/32$ inch	Push-in fitting $\varnothing 1/4$ inch, $\varnothing 5/16$ inch 1/8NPT	Push-in fitting $\varnothing 5/16$ inch, $\varnothing 3/8$ inch 1/4NPT (*5)
	P/R1/R2 port	M5	1/8NPT	1/4NPT (*5)
G thread	A/B port	-	Push-in fitting $\varnothing 4$ , $\varnothing 6$ , $\varnothing 8$ G1/8	Push-in fitting $\varnothing 8$ , $\varnothing 10$ G1/4
	P/R1/R2 port	-	G1/8	G1/4

\*5: This is a custom order product.

## Performance/characteristics by model

Item		3GA1		3GA2		3GA3		4GA1		4GA2		4GA3		
		ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	
Response time ms	Dual 3-port valve integrated	9	12	12	29	-	-	-	-	-	-	-	-	
	2-position	Single	12	12	19	19	25	28	12	12	19	19	25	28
		Double	-	-	-	-	-	-	9	-	18	-	24	-
3-position	ABR connection	-	-	-	-	-	-	8	15	17	30	23	45	

Values including a lamp surge suppressor. The response time is the value at the 0.5 MPa supply pressure, 20°C, with no lubrication. It depends on the pressure and the lubricant quality.

# 3GA1, 2, 3/4GA1, 2, 3 Series

Discrete valve; body piping

## Weight

Item			3GA1	3GA2	3GA3	4GA1	4GA2	4GA3		
Weight	g	2-position	Single	Grommet lead wire	48 (41)	104 (74)	142 (100)	48 (41)	109 (79)	151 (109)
			E connector	50 (43)	106 (76)	144 (102)	50 (43)	111 (81)	153 (111)	
			DIN terminal box	-	141 (111)	177 (135)	-	146 (116)	186 (144)	
		Double	Grommet lead wire	-	-	-	65 (58)	127 (97)	174 (128)	
			E connector	-	-	-	69 (62)	131 (101)	178 (132)	
			DIN terminal box	-	-	-	-	169 (139)	214 (168)	
		3-position	All ports closed	Grommet lead wire	-	-	-	67 (60)	139 (109)	183 (141)
				E connector	-	-	-	71 (64)	143 (113)	187 (145)
				DIN terminal box	-	-	-	-	181 (151)	223 (181)

- Values in ( ) do not include a piping adapter. Values for the E connector include the socket assembly (with 300 mm lead wire). For the EJ connector, add 16 g/connector to the E connector weight.
- The weight of dual 3-port valve integrated is the same as that of 2-position double.

## Flow characteristics

Model No.	Solenoid position	P → A/B		A/B → R1/R2		
		C [dm <sup>3</sup> /(s·bar)]	b	C [dm <sup>3</sup> /(s·bar)]	b	
3GA1 4GA1	Dual 3-port valve integrated		0.98	0.45	0.71	0.34
	2-position		1.2	0.47	0.72	0.37
	3-position	All ports closed	1.1	0.39	0.70	0.34
		ABR connection	1.1	0.33	0.72	0.34
		PAB connection	1.3	0.61	0.72	0.36
3GA2 4GA2	Dual 3-port valve integrated		1.8	0.29	2.3	0.32
	2-position		2.4	0.33	2.8	0.30
	3-position	All ports closed	2.2	0.28	2.5	0.28
		ABR connection	2.3	0.26	2.8	0.27
		PAB connection	2.5	0.38	2.4	0.30
3GA3 4GA3	2-position		3.4	0.29	4.0	0.24
	3-position	All ports closed	3.1	0.27	3.4	0.28
		ABR connection	3.1	0.33	4.1	0.20
		PAB connection	3.5	0.43	3.4	0.32

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

Ozone proof specifications • Cutting oil prohibited specifications

This can be set by selecting option "A" of (E) in how to order on page 432.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

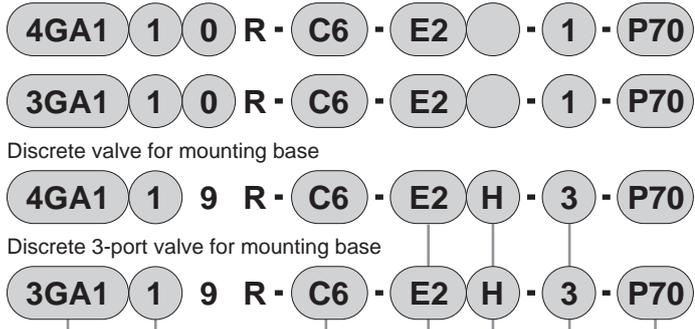
# 3GA1, 2, 3/4GA1, 2, 3 Series

**A Model No.**

3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
------	------	------	------	------	------

Discrete valve; body piping

## How to order



**A** Model No.      **B** Solenoid position      **C** Port size      **G** Clean room specifications

**D** Electrical connections  
Refer to page 429 for the circuit diagram with surge suppressor/lamp.

## ⚠ Precautions for model No. selection

- \*1: For the 3GA normally closed, the piping connection 2 (B) and 3 (R2) ports are plugged. For the 3GA normally open, avoid plugging the 5 (R1) port. Not doing so could cause malfunctions.
- \*2: Dimensions are the same as the respective 2-position double solenoid.
- \*3: 4G3 is a custom order product.
- \*4: **3-position all ports closed and PAB connection are not provided with the exhaust check valve. Refer to page 751 for details on the exhaust check valve.**
- \*5: Only E2\* and E2\*J connectors and 12/24 VDC are supported. In addition, selecting a combination of surgeless "S" and the low exoergic/energy-saving circuit "E" is not allowed.
- \*6: Applicable to surgeless specifications
- \*7: P port is equipped with a filter as standard.
- \*8: Supported only for DIN terminal box.
- \*9: A (ozone compatible) and **G** clean room specifications P74 cannot be combined.
- \*10: Specifications which do not allow copper-based/silicon-based/halogen-based materials apply to the main valve section.
- \*11: P74 Series is a custom order product.

Code	Content	3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>B Solenoid position</b>							
1	2-position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position P/A/B connection				●	●	●
11	2-position single normally closed (*1)	●	●	●			
11	2-position single normally open (*1)	●	●	●			
66	Dual 3-port valve integrated *2	●	●				
67	Dual 3-port valve integrated *2	●	●				
76	Dual 3-port valve integrated *2	●	●				
77	Dual 3-port valve integrated *2	●	●				

Port		P/R1/R2 port (1) = M5 (2) = Rc1/8 (3) = Rc1/4				
CF	ø1.8 barbed fitting (applicable tube UP-9102-**) (1)			(1)		
C18	ø1.8 push-in fitting (applicable tube UP-9402-**) (1)			(1)		
C4	ø4 push-in fitting (1) (2)			(1) (2)		
C6	ø6 push-in fitting (1) (2) (3)			(1) (2) (3)		
C8	ø8 push-in fitting (2) (3)			(2) (3)		
C10	ø10 push-in fitting (3)			(3)		
M5	M5 (1)			(1)		
06	Rc1/8 (2)			(2)		
08	Rc1/4 (3)			(3)		
Port		P/R1/R2 port (1) = M5 (5) = 1/8NPT (6) = 1/4NPT				
C3N	ø1/8 inch push-in fitting (1)			(1)		
C4N	ø5/32 inch push-in fitting (1)			(1)		
C6N	ø1/4 inch push-in fitting (5)			(5)		
C8N	ø5/16 inch push-in fitting (*3) (5) (6)			(5) (6)		
C10N	ø3/8 inch push-in fitting (*3) (6)			(6)		
06N	1/8NPT (5)			(5)		
08N	1/4NPT (*3) (6)			(6)		
Port		P/R1/R2 port (8)=G1/8, (9)=G1/4				
C4G	ø4 push-in fitting (8)			(8)		
C6G	ø6 push-in fitting (8)			(8)		
C8G	ø8 push-in fitting (8) (9)			(8) (9)		
C10G	ø10 push-in fitting (9)			(9)		
06G	G1/8 (8)			(8)		
08G	G1/4 (9)			(9)		

## D Electrical connections

Refer to the electrical connection list on next page.

<b>E Option</b>							
Blank	Non-locking and locking model shared manual override	●	●	●	●	●	●
M	Non-locking manual override	●	●	●	●	●	●
H	With exhaust check valve (*4)	●	●	●	●	●	●
P	Mounting plate	●	●	●	●	●	●
A	Ozone/cutting oil proof	●	●	●	●	●	●
S	Surgeless (*5)	●	●	●	●	●	●
E	Low exoergic/energy-saving circuit (*5), (*6)	●	●	●	●	●	●
F	A/B port filter integrated (*7)	●	●	●	●	●	●

<b>F Voltage</b>							
1	100 VAC (with rectifier circuit)	●	●	●	●	●	●
2	200 VAC (with rectifier circuit) (*8)	●	●	●	●	●	●
3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●
7	3 VDC	○	○	○	○	○	○
8	5 VDC	○	○	○	○	○	○

<b>G Clean room specifications (*9, 10, 11)</b>							
	Structure	Material restriction					
P70	Exhaust treatment	-	●	●	●	●	●
P74	Exhaust treatment	Copper-based/silicon-based/halogen-based materials (fluorine, chlorine, bromine) are prohibited.	○	○	○	○	○

# 3GA1, 2, 3/4GA1, 2, 3 Series

Discrete valve; body piping

## (Electrical connection list)

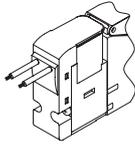
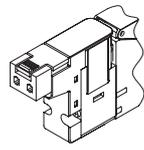
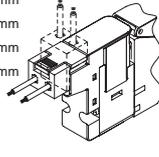
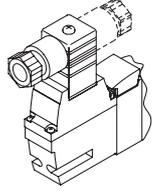
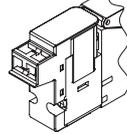
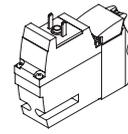
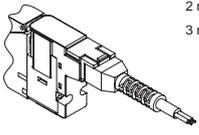
		A Model No.					
		3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>D Electrical connections</b>							
Blank	Grommet lead wire (300 mm) (*9)	●	●	●	●	●	●
B	DIN terminal box (Pg7) with surge suppressor/lamp (*10)(*12)		●	●		●	●
BN	DIN terminal box (Pg7) (no terminal box) with surge suppressor (*10)(*12)		●	●		●	●
<b>E connector (up/lateral common)</b>							
E0	Lead wire (300 mm) (*11)	●	●	●	●	●	●
E00	Lead wire (500 mm) (*11)	●	●	●	●	●	●
E01	Lead wire (1000 mm) (*11)	●	●	●	●	●	●
E02	Lead wire (2000 mm) (*11)	●	●	●	●	●	●
E03	Lead wire (3000 mm) (*11)	●	●	●	●	●	●
E0N	Without lead wire (without socket)	●	●	●	●	●	●
E1	Without lead wire (with socket/terminal) (*11)	●	●	●	●	●	●
E2	Lead wire (300 mm) with surge suppressor/lamp	●	●	●	●	●	●
E20	Lead wire (500 mm) with surge suppressor/lamp	●	●	●	●	●	●
E21	Lead wire (1000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E22	Lead wire (2000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E23	Lead wire (3000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E2N	Without lead wire (without socket) with surge suppressor/lamp	●	●	●	●	●	●
E3	Without lead wire (with socket/terminal) with surge suppressor/lamp	●	●	●	●	●	●
<b>EJ connector (socket with cover, up/lateral common)</b>							
E01J	Lead wire (1000 mm) (*11)	●	●	●	●	●	●
E02J	Lead wire (2000 mm) (*11)	●	●	●	●	●	●
E03J	Lead wire (3000 mm) (*11)	●	●	●	●	●	●
E21J	Lead wire (1000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E22J	Lead wire (2000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E23J	Lead wire (3000 mm) with surge suppressor/lamp	●	●	●	●	●	●

\*12: The grommet lead wire specifications are only applicable to DC voltages.

\*13: AC voltage and 12/24 VDC are supported. The lamp is incorporated in the terminal box.

\*14: AC voltage is provided with a rectifier circuit.

\*15: The terminal box is a EN175301-803Type C (old DIN 43650-C) compliant product. Refer to pages 756 and 757 for details.

Electrical connections	
<b>Blank</b> Grommet lead wire ● Lead wire length 300 mm 	<b>E1</b> <b>E3</b> E connector with socket/terminal 
<b>E0</b> <b>E2</b> E connector ● Lead wire length 300 mm 500 mm 1000 mm 2000 mm 3000 mm 	<b>B</b> DIN terminal box 
<b>E0N</b> <b>E2N</b> E connector without socket 	<b>BN</b> DIN terminal box No terminal box 
<b>E0*J</b> <b>E2*J</b> EJ connector ● Lead wire length 1 m 2 m 3 m 	

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 3GA1 Series

Discrete valve; body piping

## Dimensions

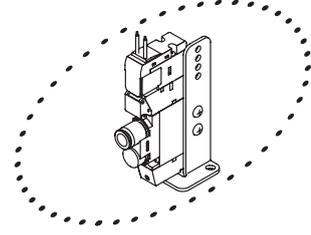
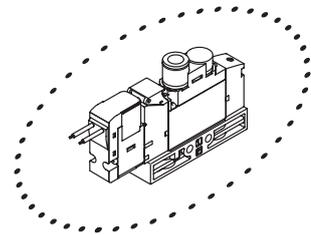


**3GA110R-P7\*** \*For the NPT thread and G thread specifications, refer to pages 464 to 471.

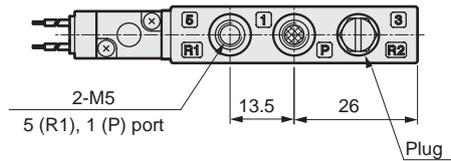
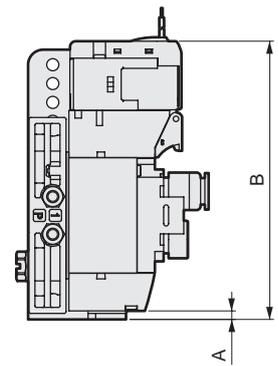
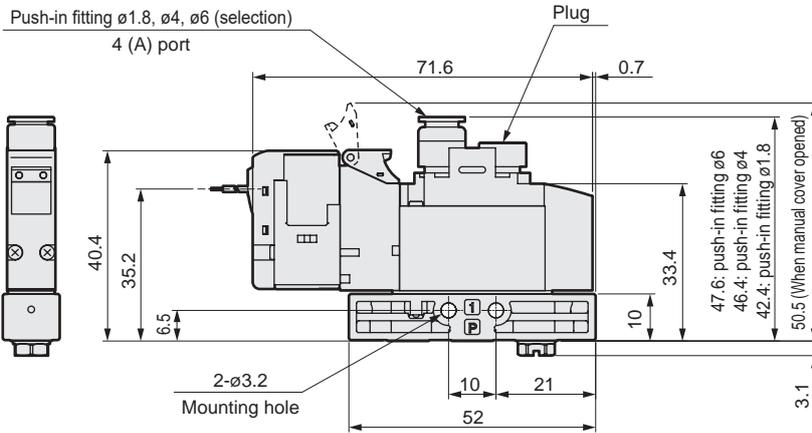
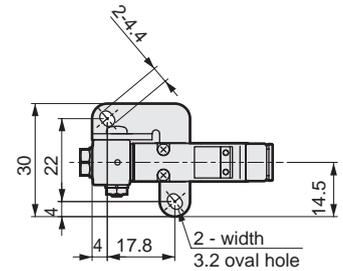
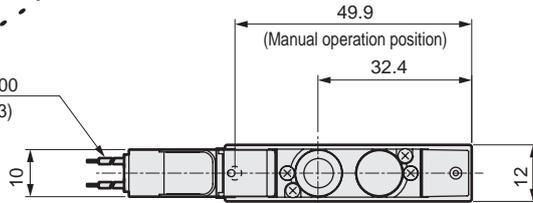
\*Refer to page 753 for details on mounting holes.

● 2-position single normally closed grommet lead wire (blank)

● Mounting plate (P)



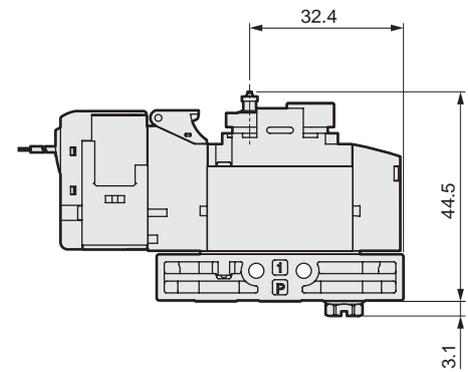
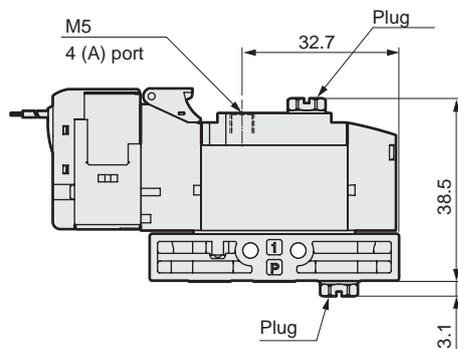
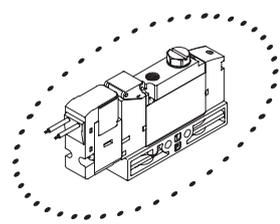
Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)



Electrical connections	A	B
Grommet lead wire		73.8
E, EJ connector (facing up), DC voltage	2.2	82
E, EJ connector (facing up), AC voltage		85.5

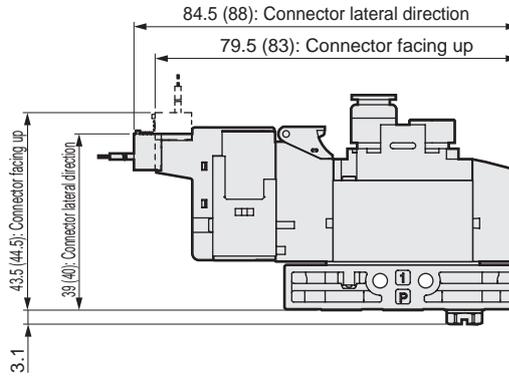
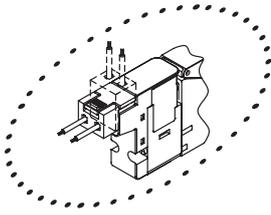
● M5 female thread (M5)

●  $\phi$ 1.8 barbed fitting (CF)



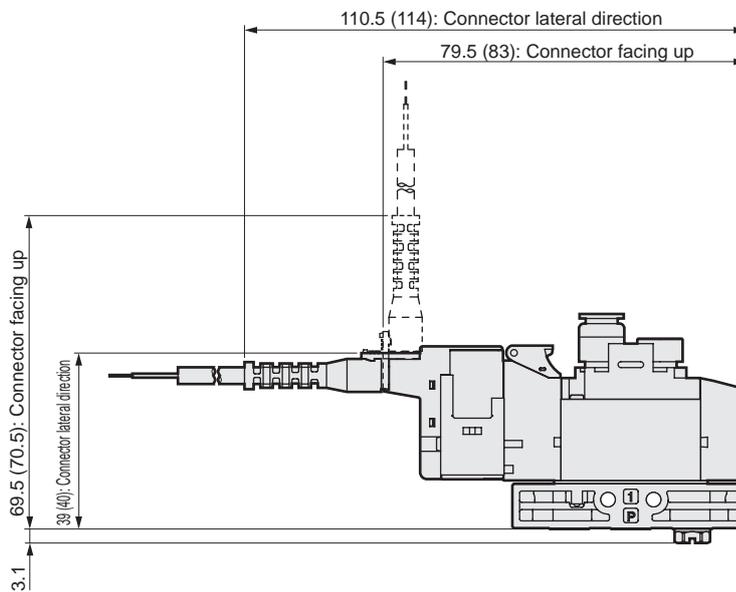
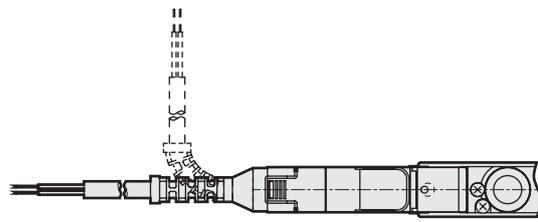
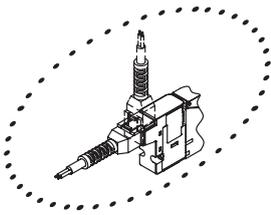
## Dimensions

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GA1 Series

Discrete valve; body piping

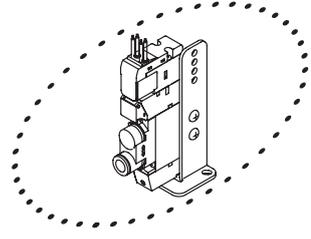
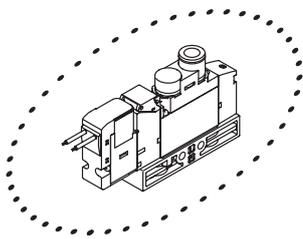
## Dimensions



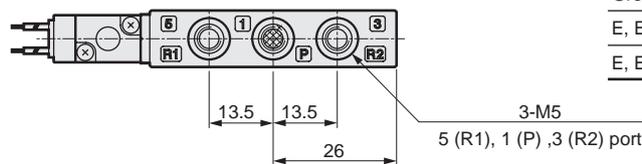
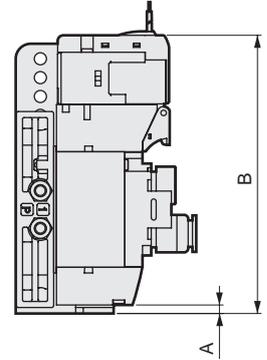
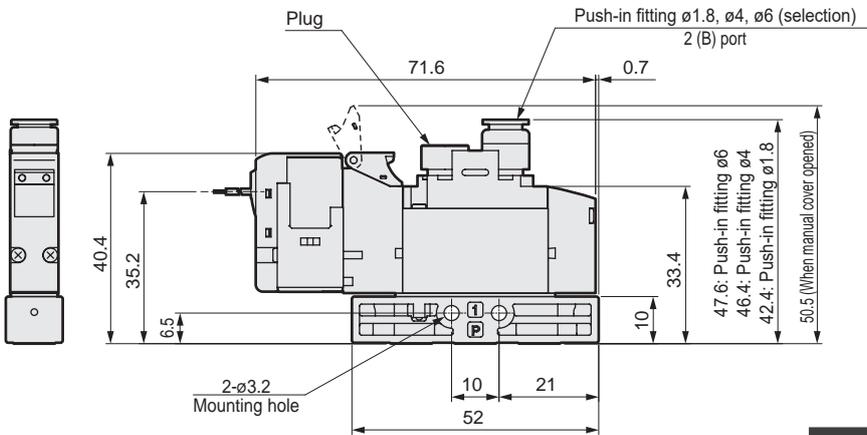
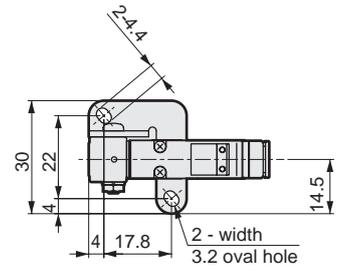
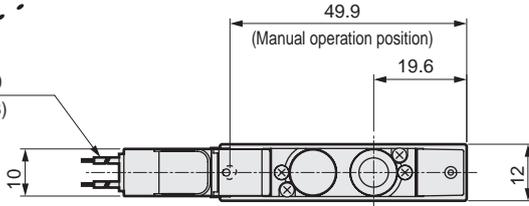
3GA1110R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2-position single normally open grommet lead wire (blank)

● Mounting plate (P)



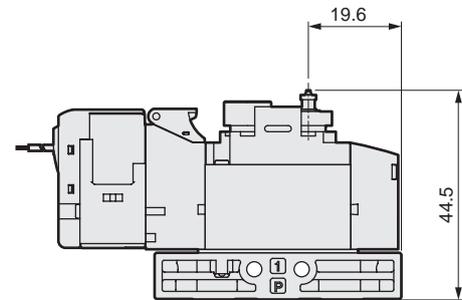
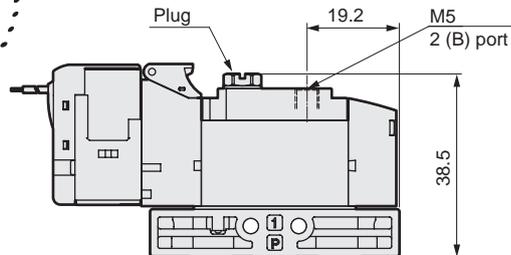
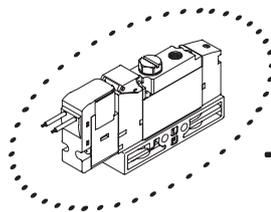
Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)



Electrical connections	A	B
Grommet lead wire		73.8
E, EJ connector (facing up), DC voltage	2.2	82
E, EJ connector (facing up), AC voltage		85.5

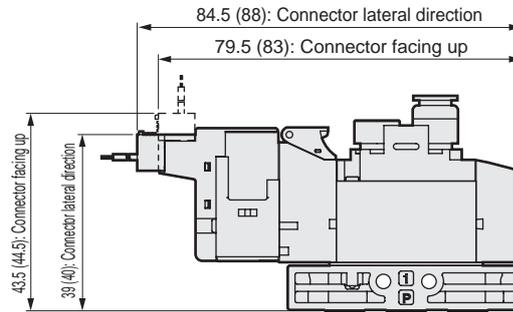
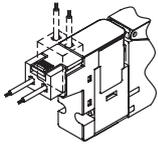
● M5 female thread (M5)

●  $\phi$ 1.8 barbed fitting (CF)



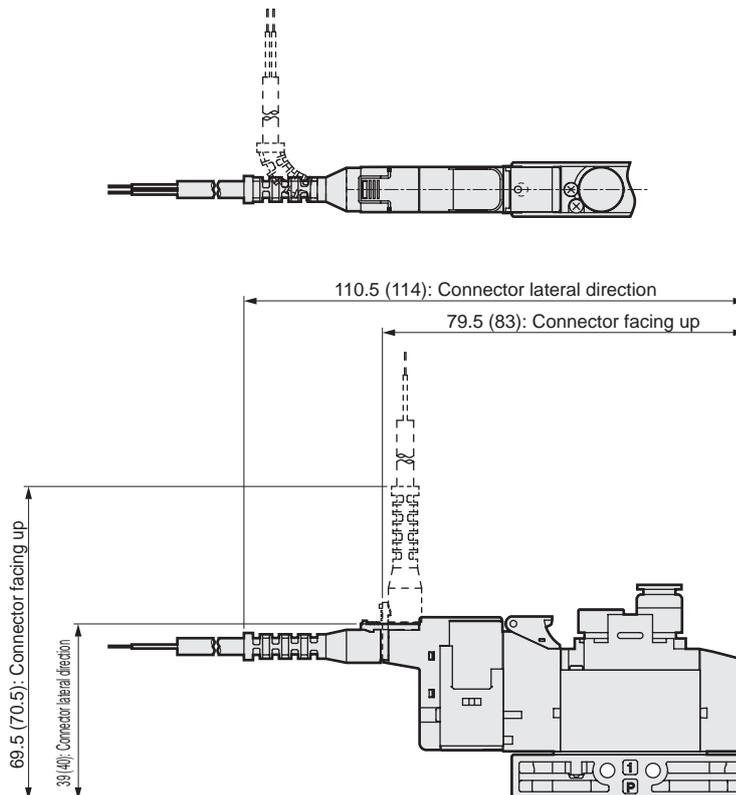
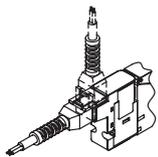
## Dimensions

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GA2 Series

Discrete valve; body piping

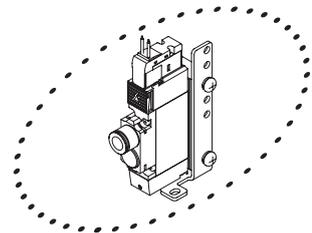
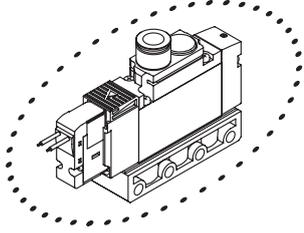
## Dimensions



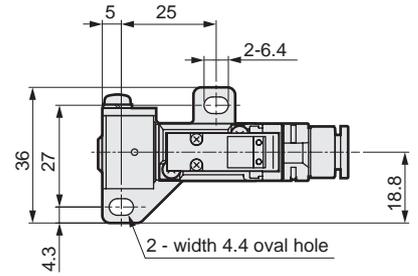
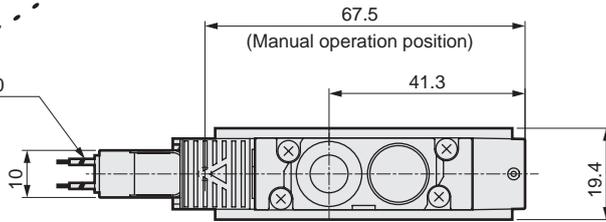
3GA210R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2-position single normally closed grommet lead wire (blank)

● Mounting plate (P)

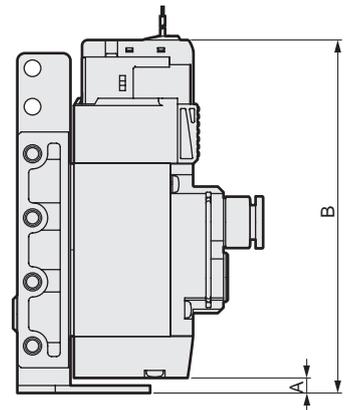
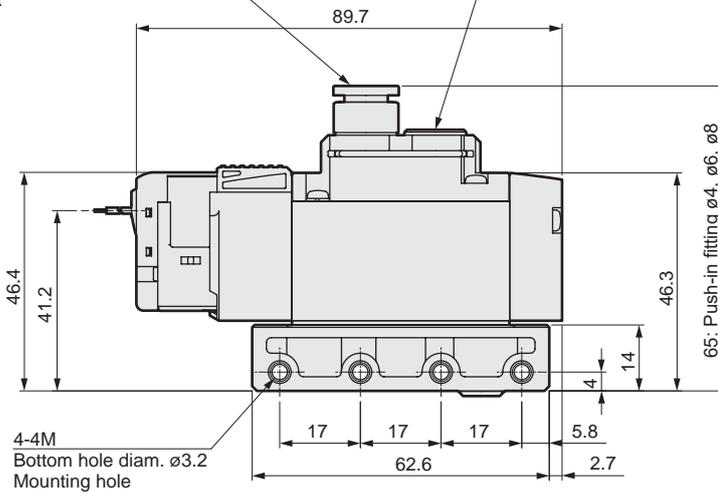
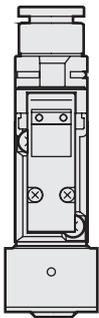


Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)

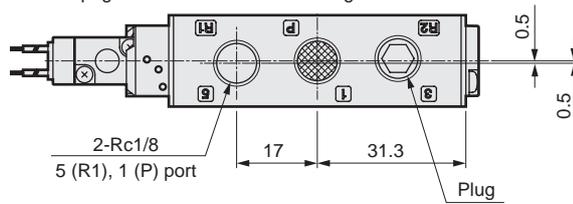


Push-in fitting  $\phi$ 4,  $\phi$ 6,  $\phi$ 8 (Selection) 4  
(A) port

Plug

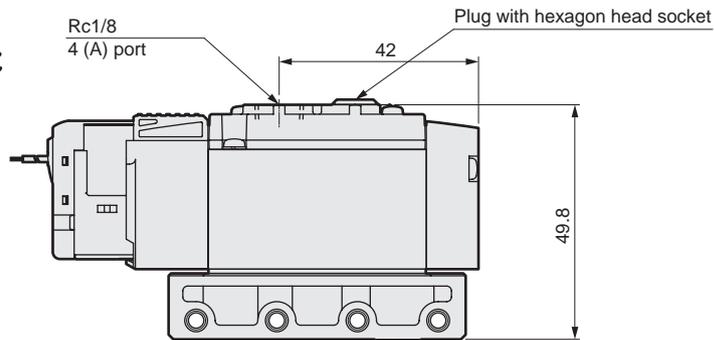
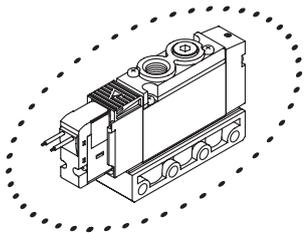


\*Refer to page 753 for details on mounting holes.



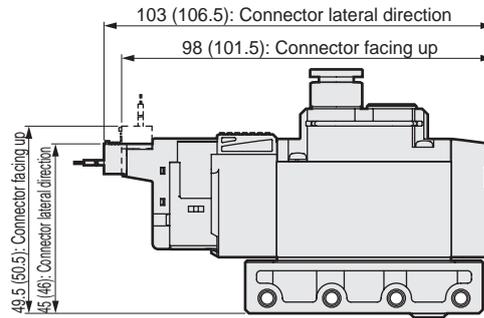
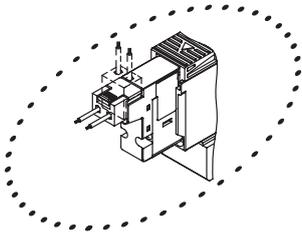
Electrical connections	A	B
Grommet lead wire	4	93.7
E, EJ connector (facing up), DC voltage		102
E, EJ connector (facing up), AC voltage		105.5
DIN terminal box (inner direction)		112.7

● Rc1/8 female thread (06)



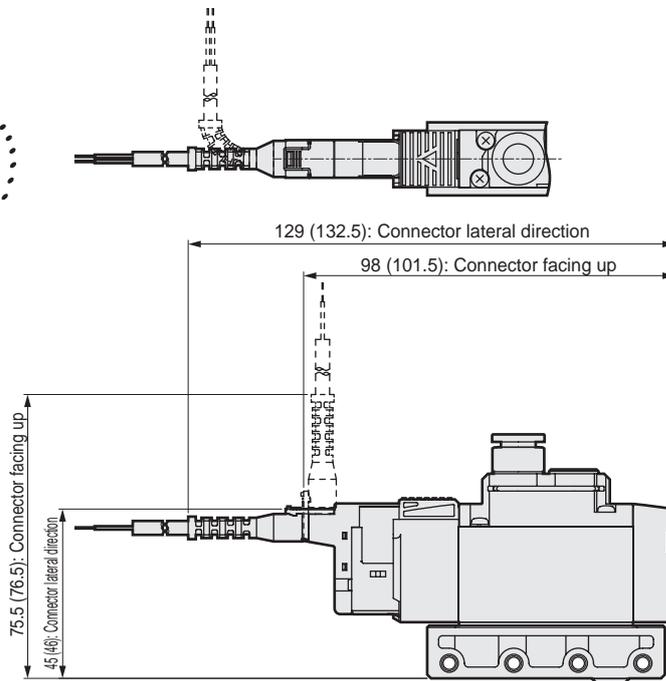
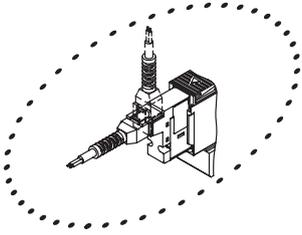
## Dimensions

● E connector (E)



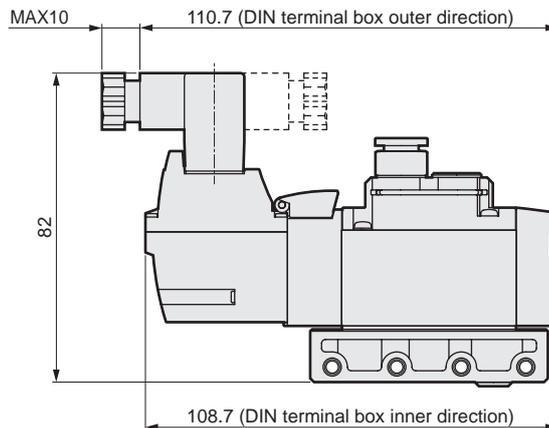
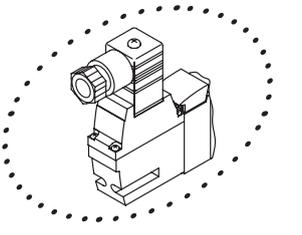
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GA2 Series

Discrete valve; body piping

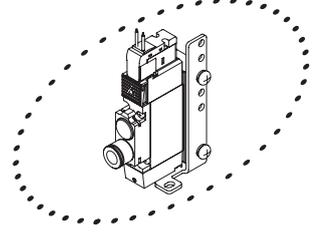
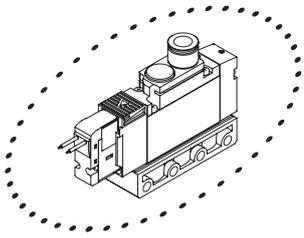
## Dimensions



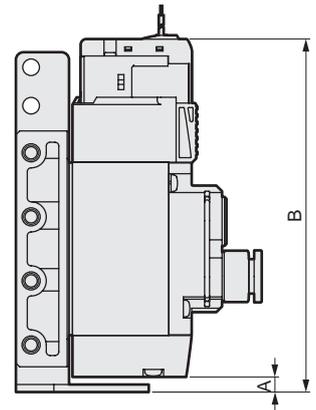
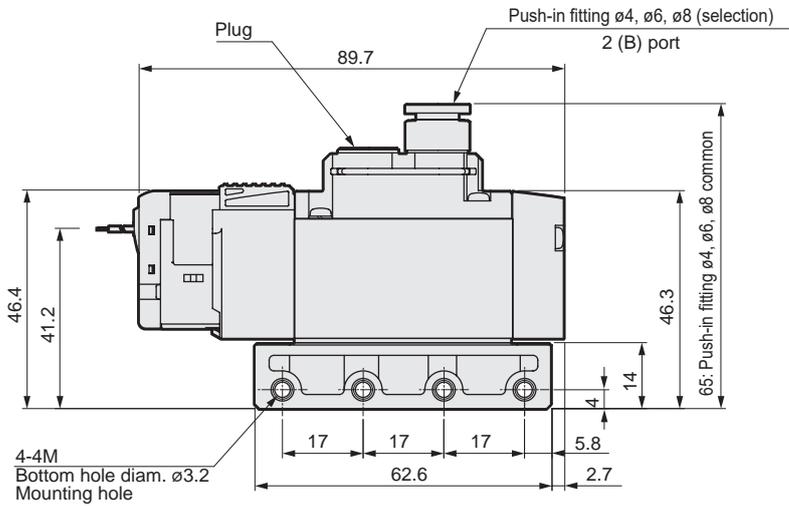
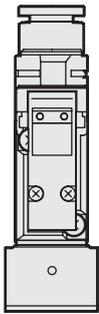
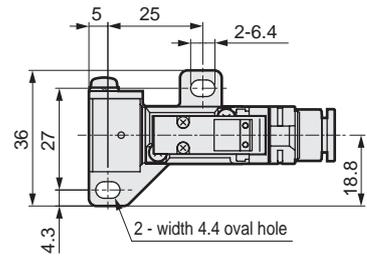
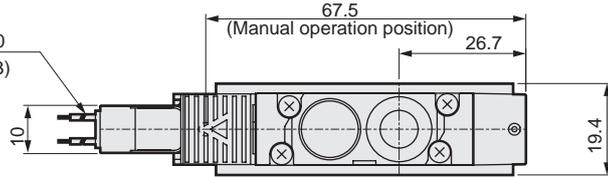
3GA2110R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2 position single normally open grommet lead wire (blank)

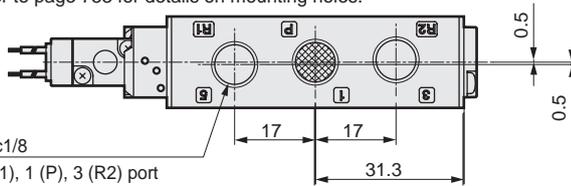
● Mounting plate (P)



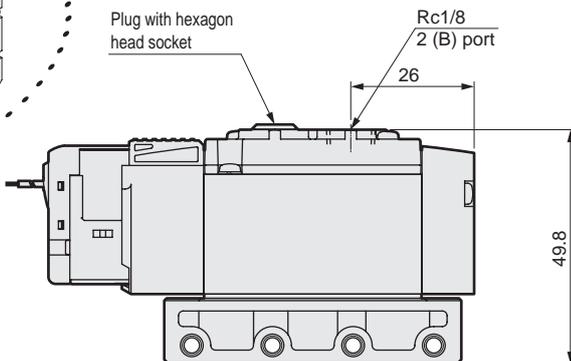
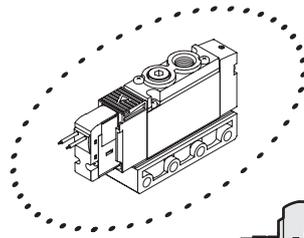
Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)



\*Refer to page 753 for details on mounting holes.



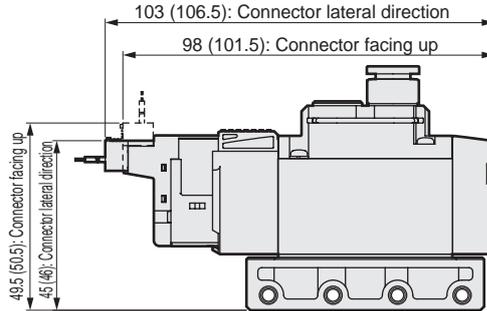
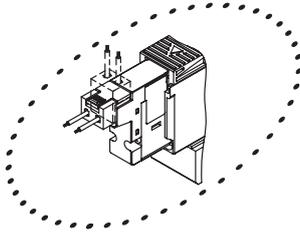
● Rc1/8 female thread (06)



Electrical connections	A	B
Grommet lead wire	4	93.7
E, EJ connector (facing up), DC voltage		102
E, EJ connector (facing up), AC voltage		105.5
DIN terminal box (inner direction)		112.7

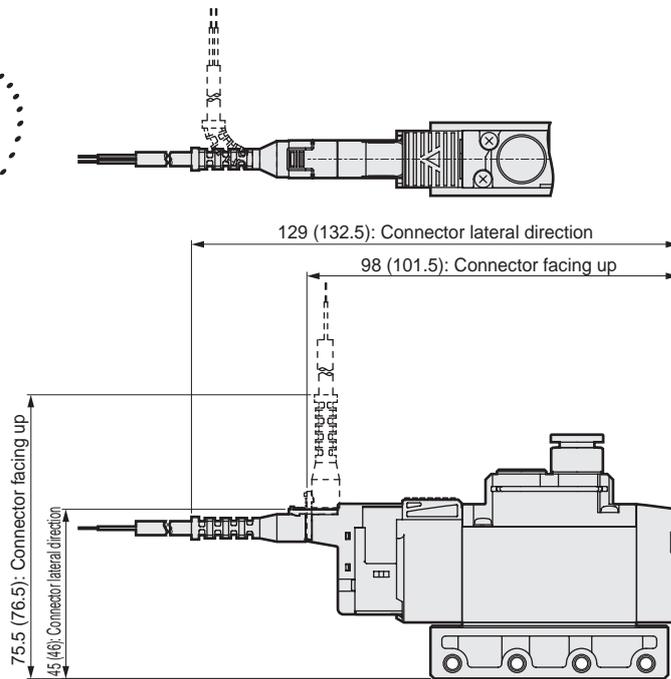
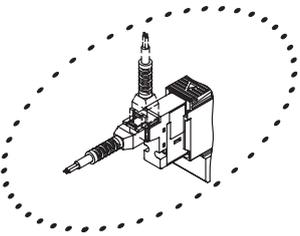
## Dimensions

● E connector (E)



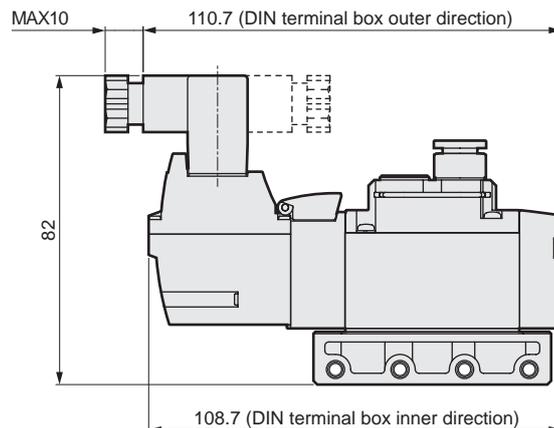
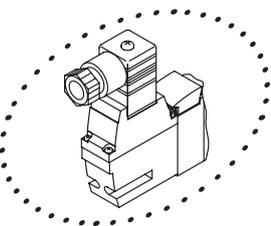
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GA3 Series

Discrete valve; body piping

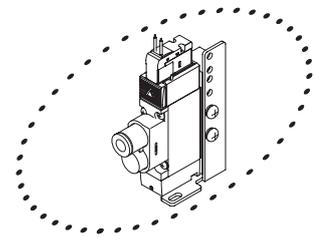
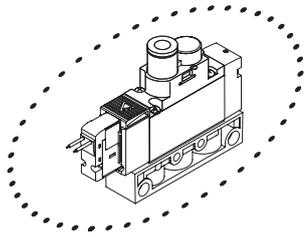
## Dimensions



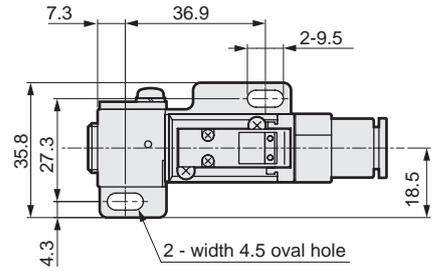
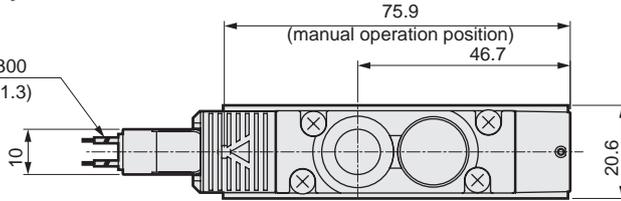
3GA310R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2-position single normally closed grommet lead wire (blank)

● Mounting plate (P)

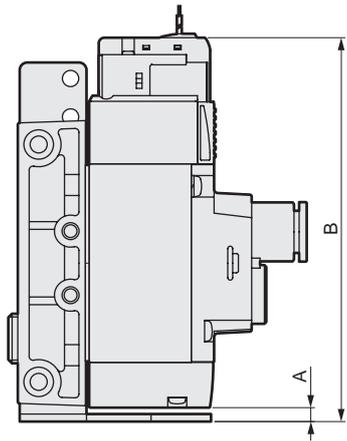
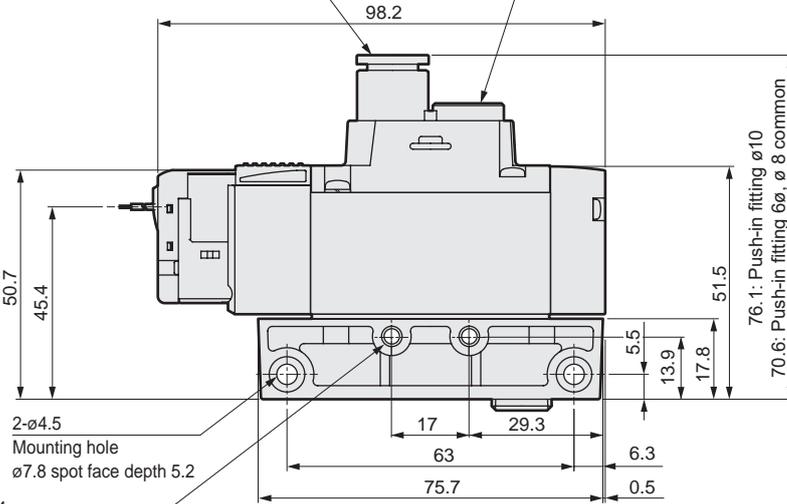
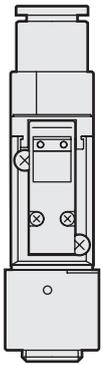


Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)

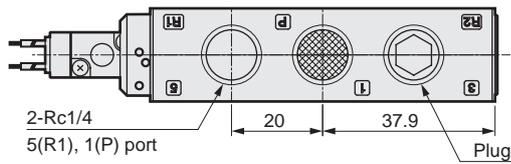


Push-in fitting  $\phi$ 6,  $\phi$ 8,  $\phi$ 10 (selection)  
4(A) Port

Plug

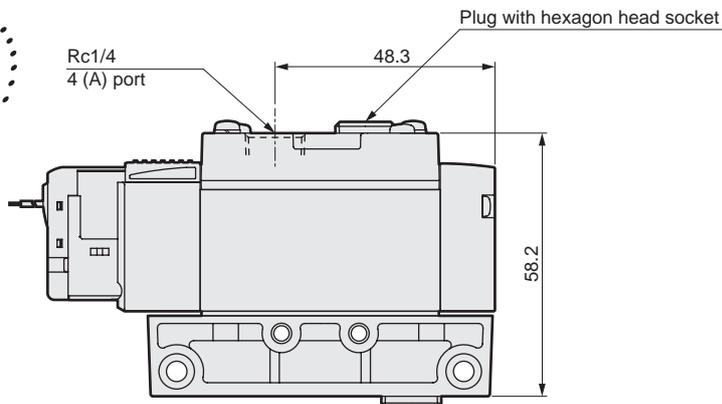
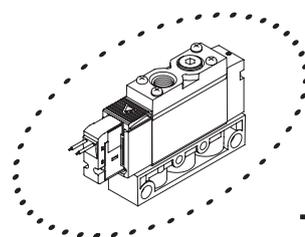


\*Refer to page 753 for details on mounting holes.



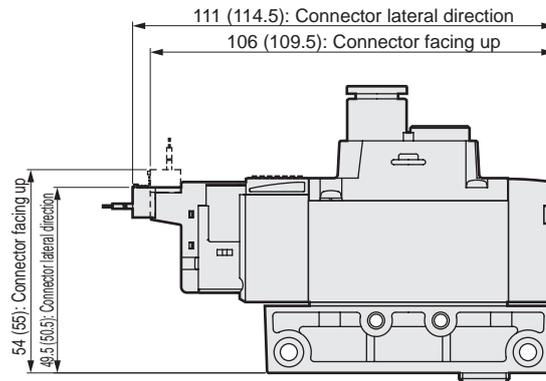
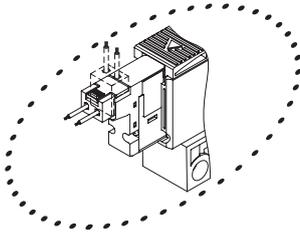
Electrical connections	A	B
Grommet lead wire	3.7	101.8
E, EJ connector (facing up), DC voltage		110
E, EJ connector (facing up), AC voltage		113.5
DIN terminal box (inner direction)		120.9

● RC1/4 female thread (08)



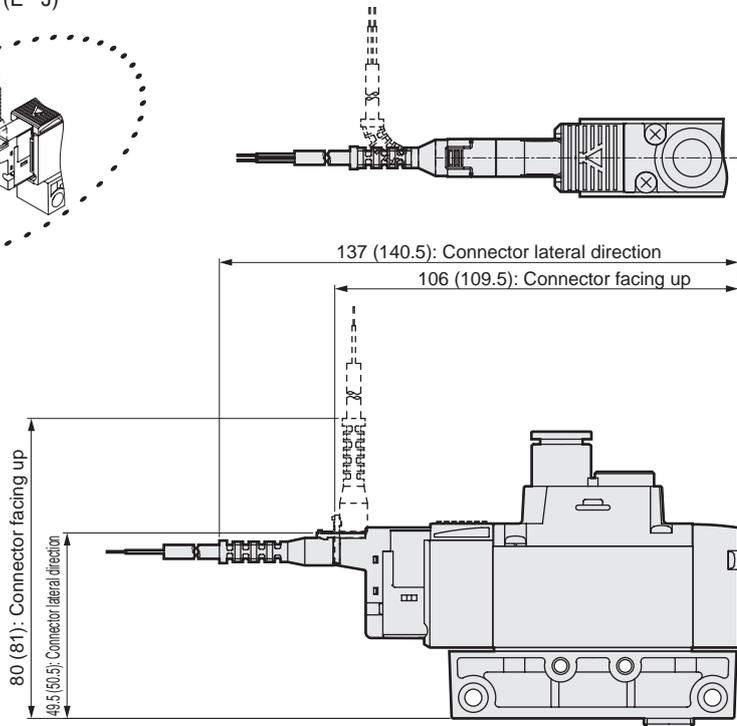
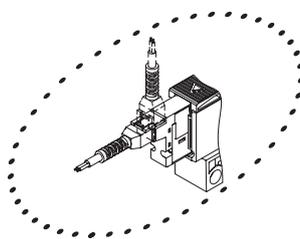
## Dimensions

### ● E connector (E)



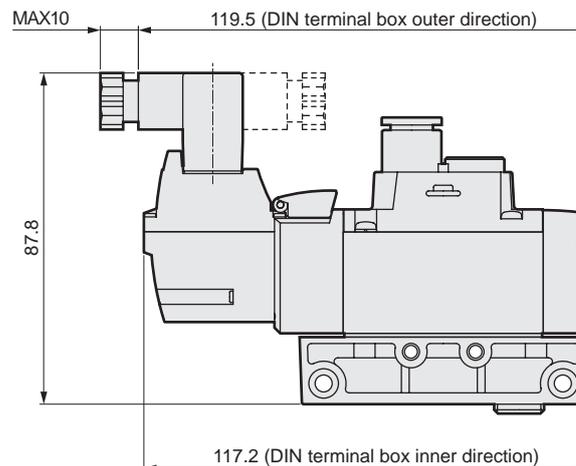
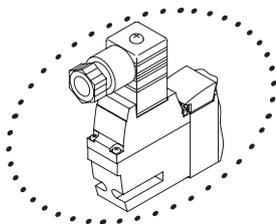
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 3GA3 Series

Discrete valve; body piping

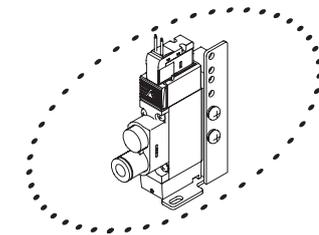
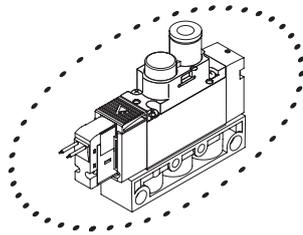
## Dimensions



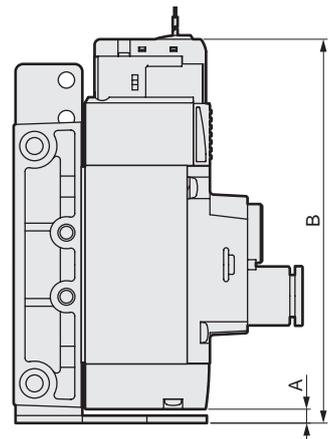
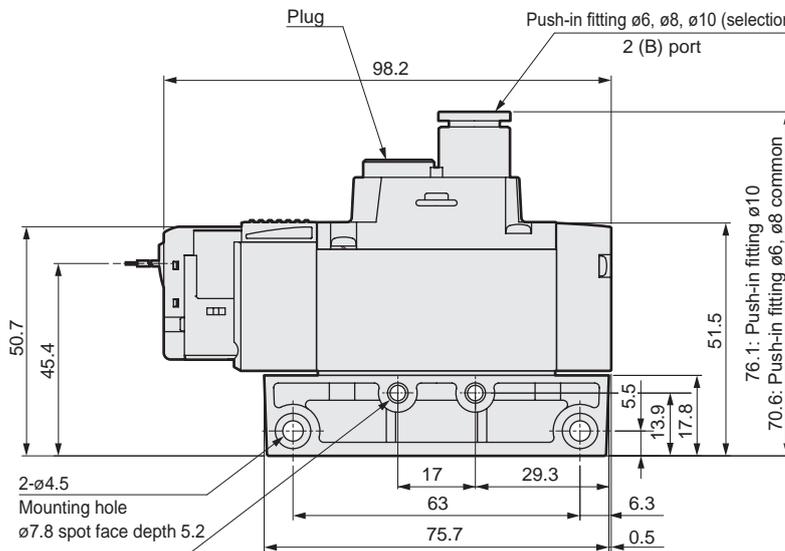
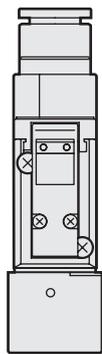
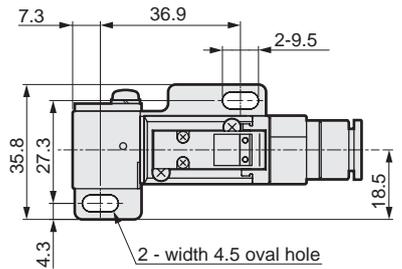
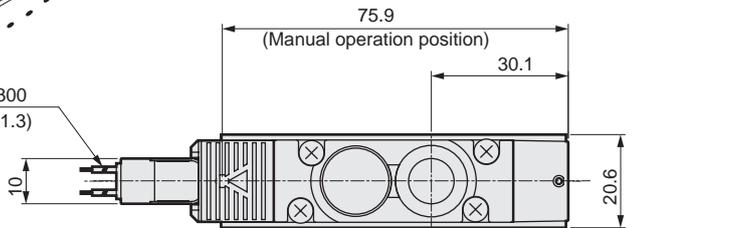
3GA3110R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2 position single normally open grommet lead wire (blank)

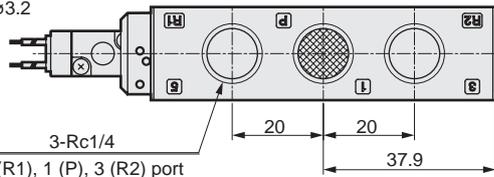
● Mounting plate (P)



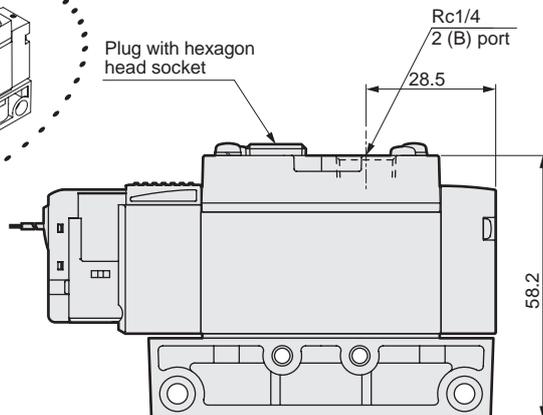
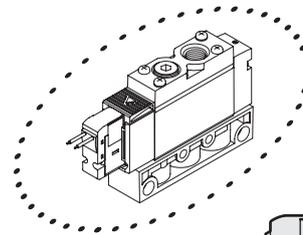
Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)



2-M4  
Bottom hole diam.  $\phi$ 3.2  
Mounting hole



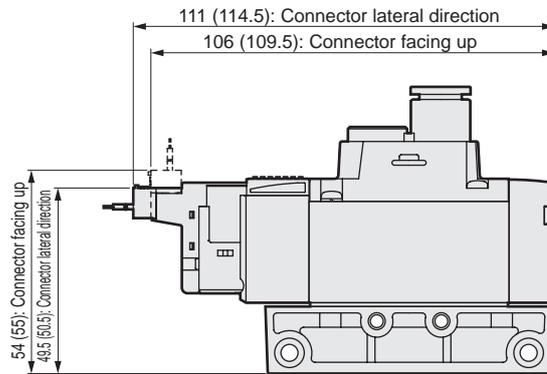
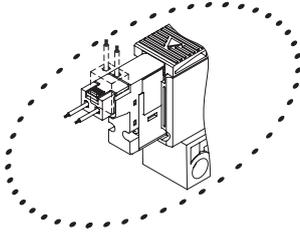
● RC1/4 female thread (08)



Electrical connections	A	B
Grommet lead wire		101.8
E, EJ connector (facing up), DC voltage	3.7	110
E, EJ connector (facing up), AC voltage		113.5
DIN terminal box (inner direction)		120.9

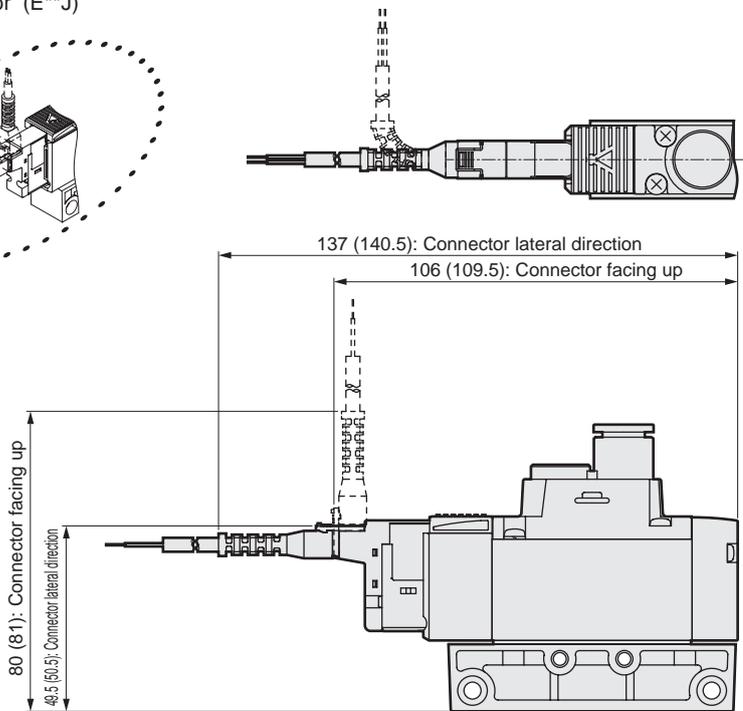
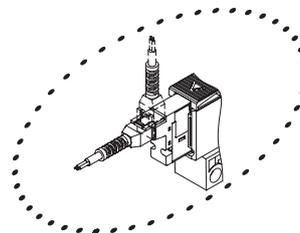
## Dimensions

### ● E connector (E)



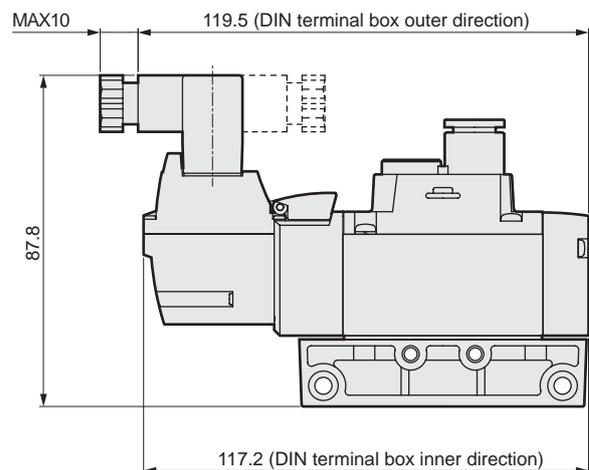
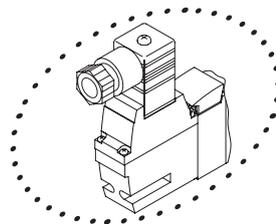
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# 4GA1 Series

Discrete valve; body piping

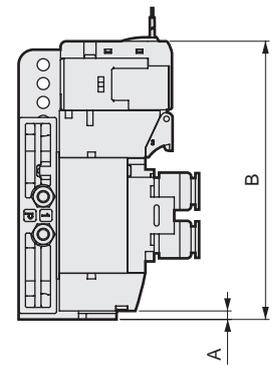
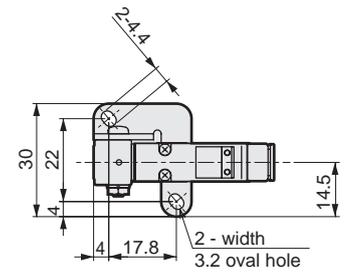
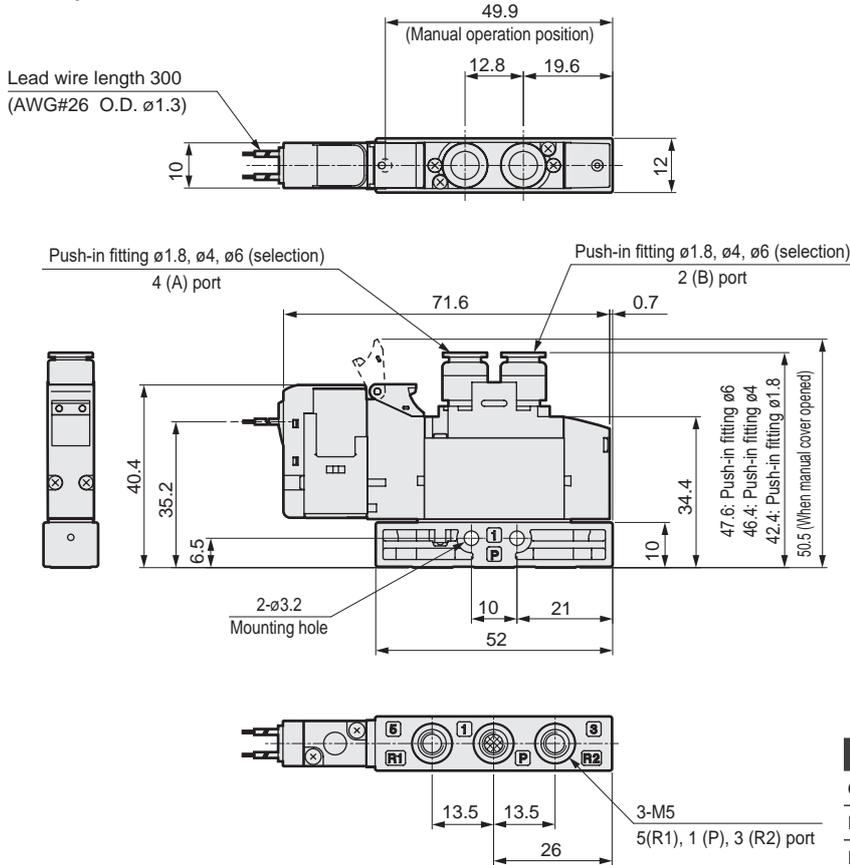
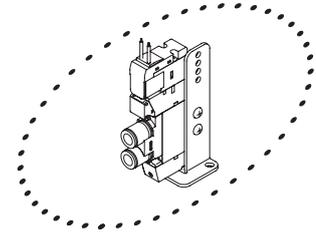
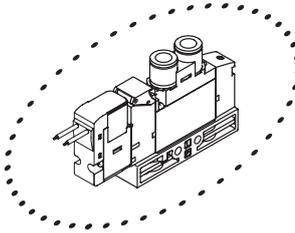
## Dimensions



4GA110R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

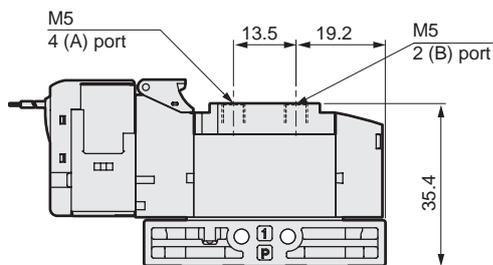
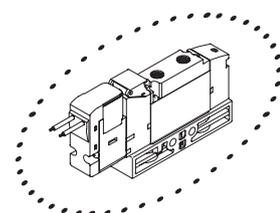
● 2-position single grommet lead wire (blank)

● Mounting plate (P)

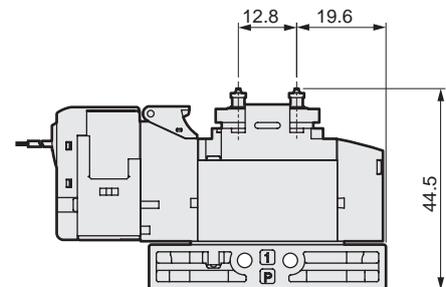


Electrical connections	A	B
Grommet lead wire		73.8
E, EJ connector (facing up), DC voltage	2.2	82
E, EJ connector (facing up), AC voltage		85.5

● M5 female thread (M5)

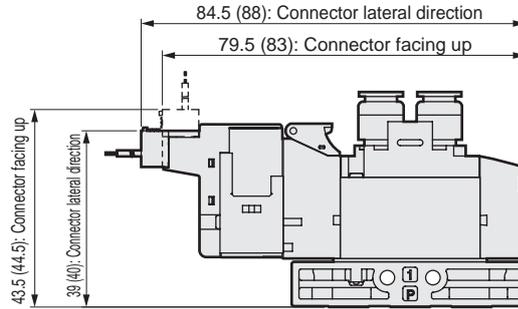
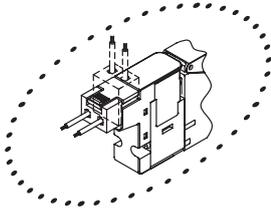


● ø1.8 barbed fitting (CF)



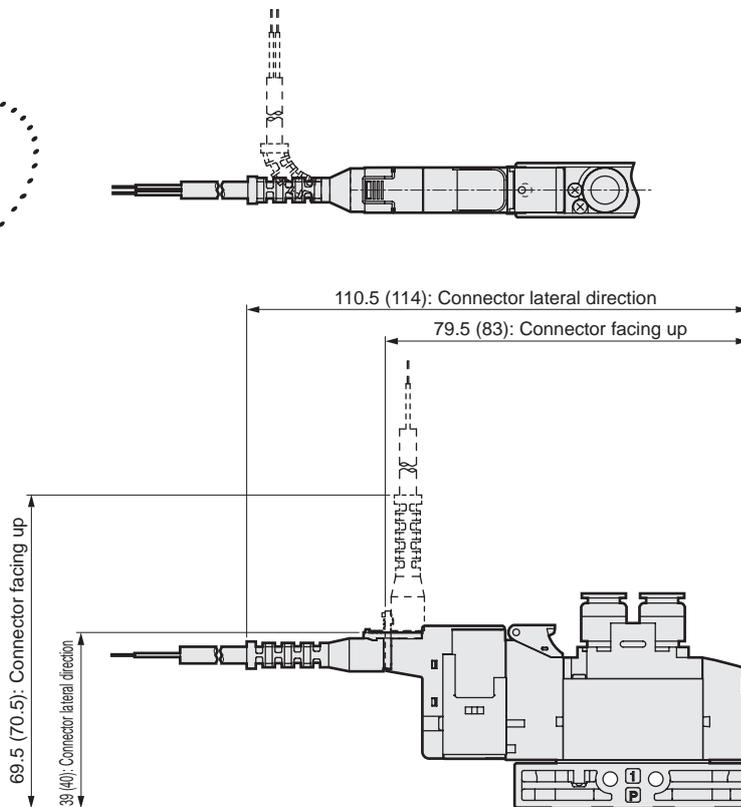
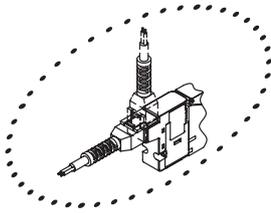
## Dimensions

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 4GA1 Series

Discrete valve; body piping

## Dimensions

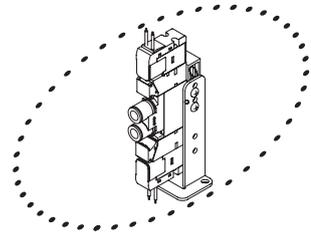
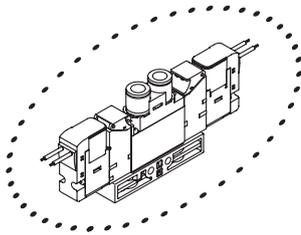
4GA120R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

- 2-position double grommet lead wire (blank)

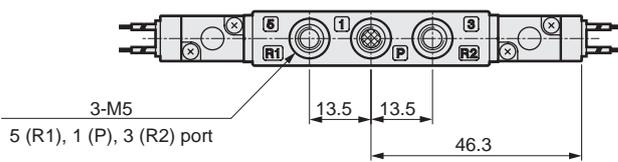
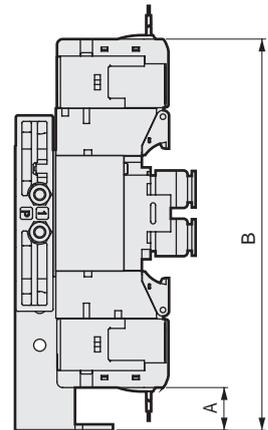
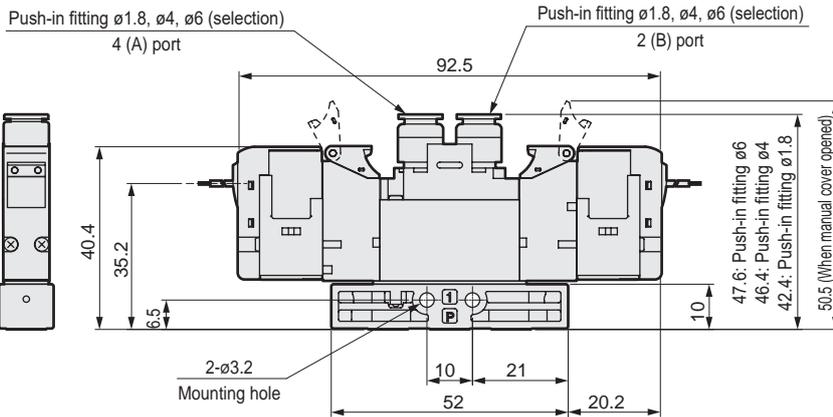
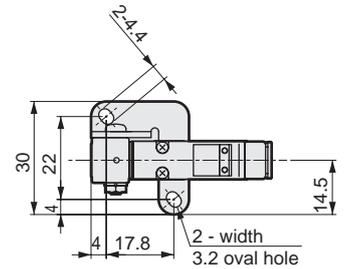
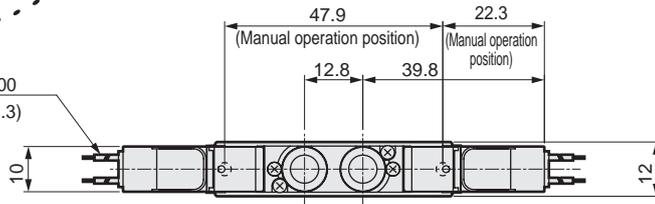
3GA1660R, 3GA1670R, 3GA1760R, 3GA1770R-P7\*

- Dual 3-port valve integrated grommet lead wire (blank)

- Mounting plate (P)

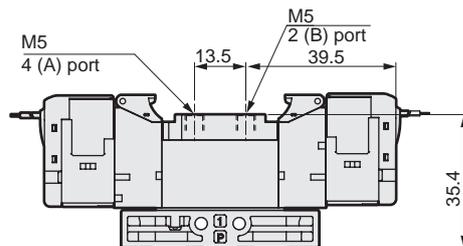
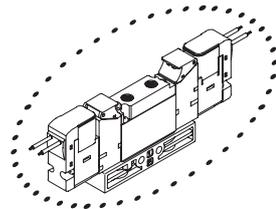


Lead wire length 300  
(AWG#26, O.D. ø1.3)

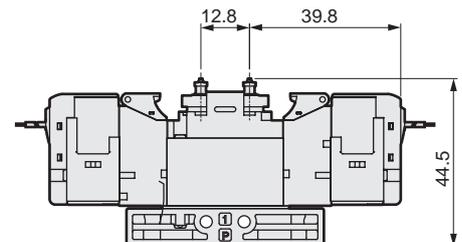


Electrical connections	A	B
Grommet lead wire	11.3	103.8
E, EJ connector (facing up), DC voltage	3	112
E, EJ connector (facing up), AC voltage	5	124

- M5 female thread (M5)

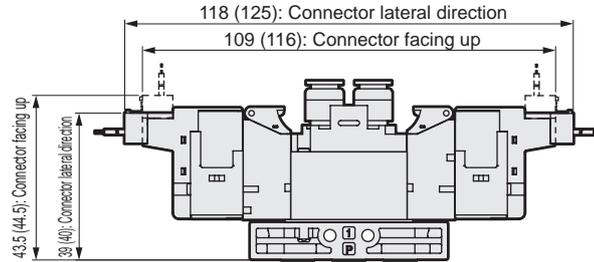
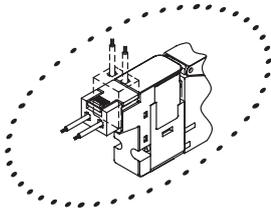


- ø1.8 barbed fitting (CF)



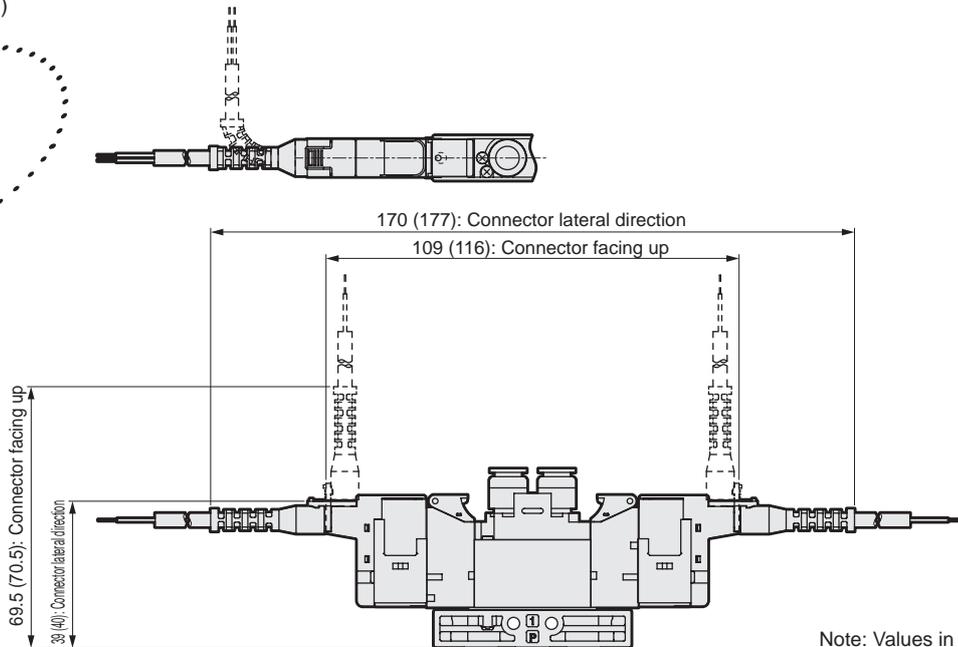
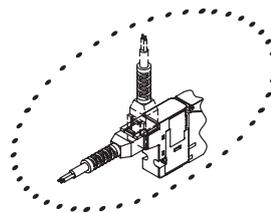
## Dimensions

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 4GA1 Series

Discrete valve; body piping

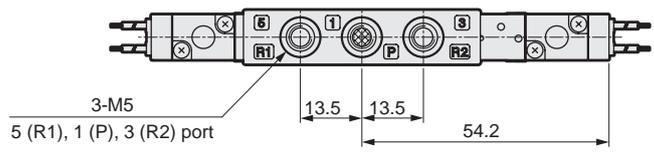
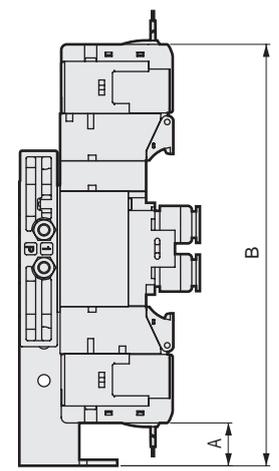
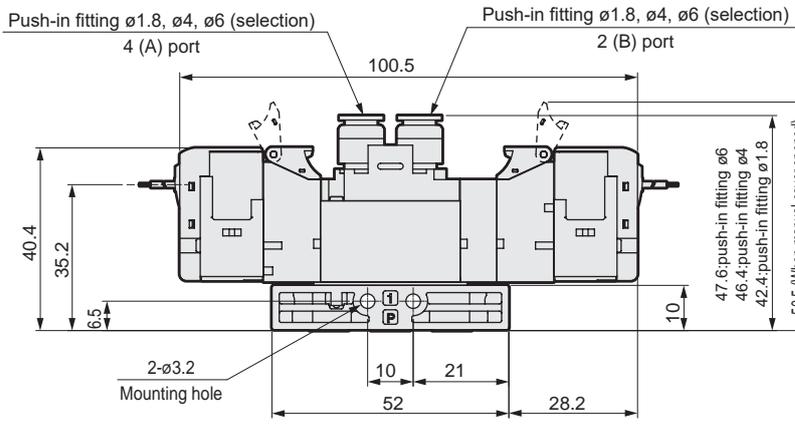
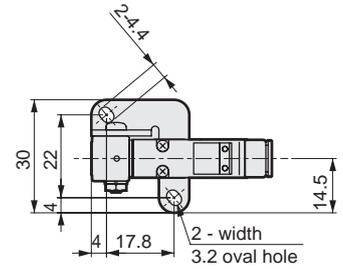
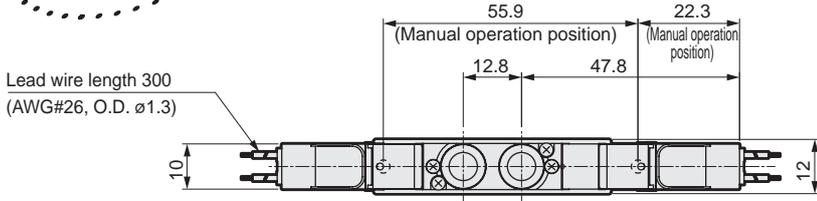
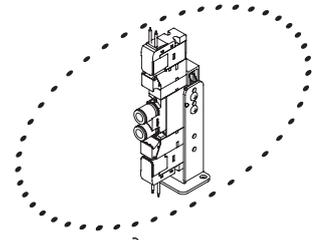
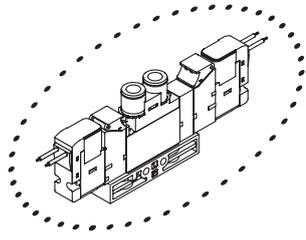
## Dimensions



4GA1<sup>3</sup>/<sub>5</sub>0R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

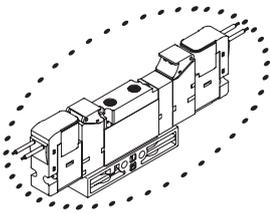
● 3 position grommet lead wire (blank)

● Mounting plate (P)

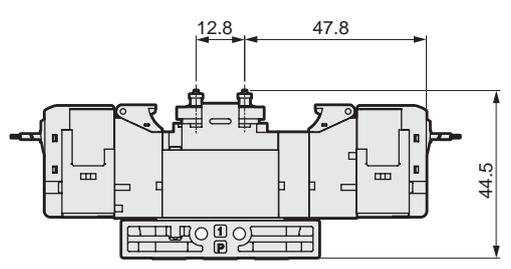
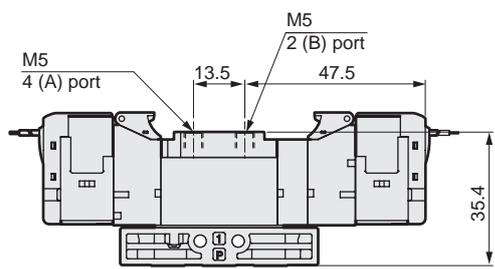


Electrical connections	A	B
Grommet lead wire	11.3	111.8
E, EJ connector (facing up), DC voltage	3	120
E, EJ connector (facing up), AC voltage	5	132

● M5 female thread (M5)

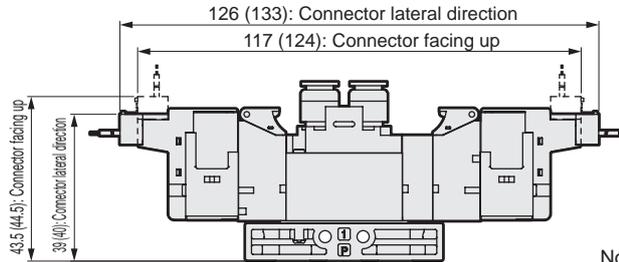
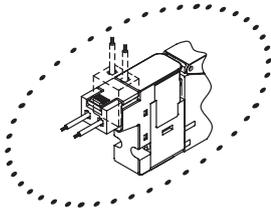


● ø1.8 barbed fitting (CF)



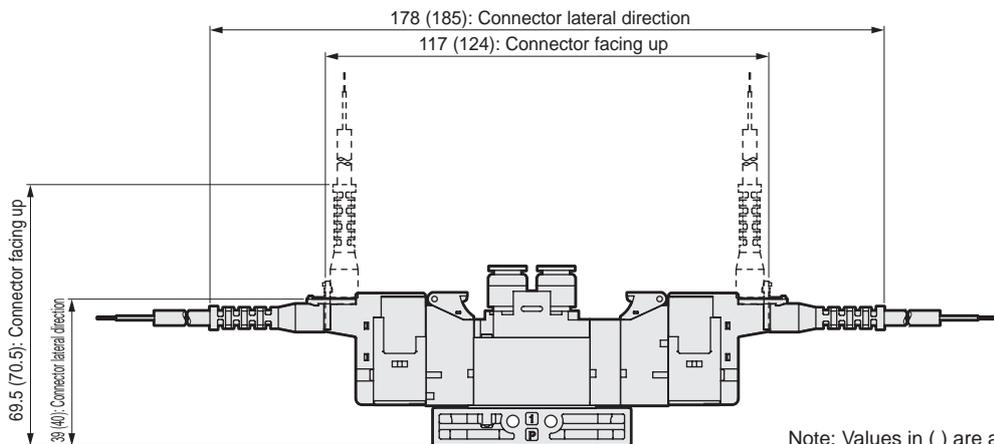
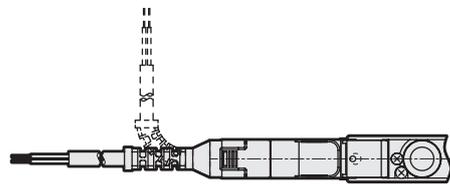
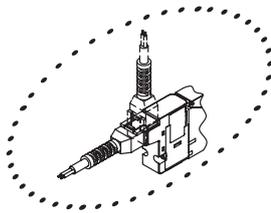
## Dimensions

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 4GA2 Series

Discrete valve; body piping

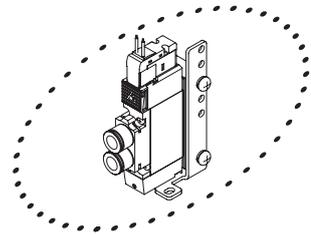
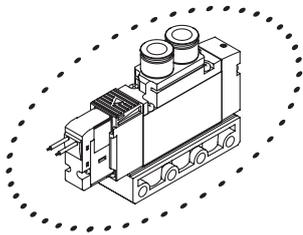
## Dimensions



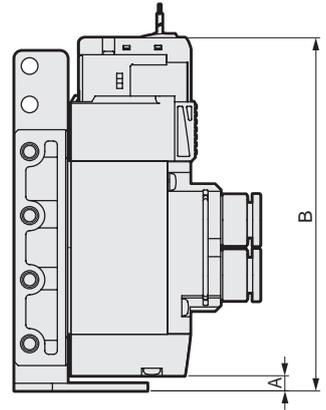
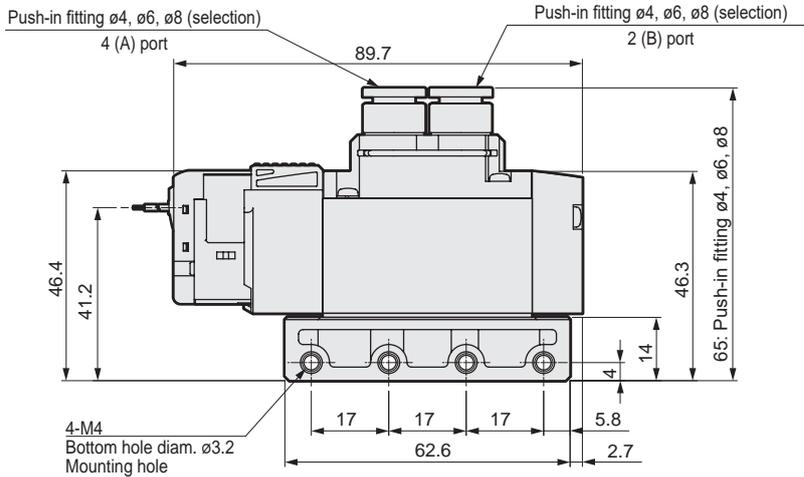
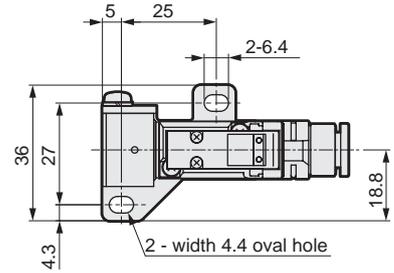
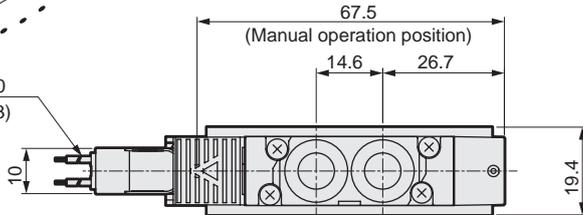
4GA210R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2-position single grommet lead wire (blank)

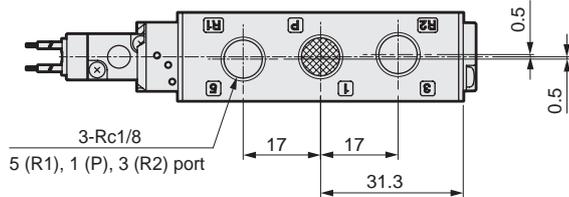
● Mounting plate (P)



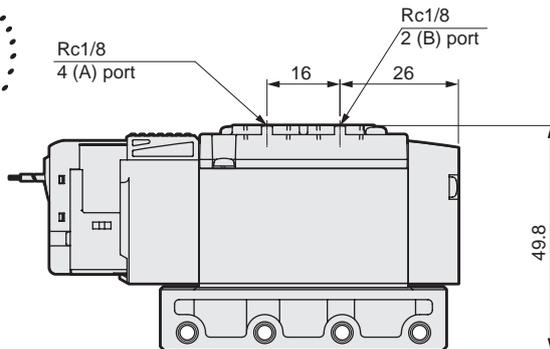
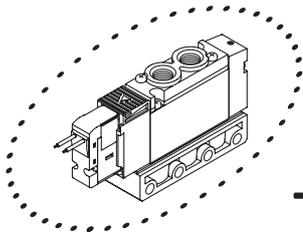
Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)



\*Refer to page 753 for details on mounting holes.



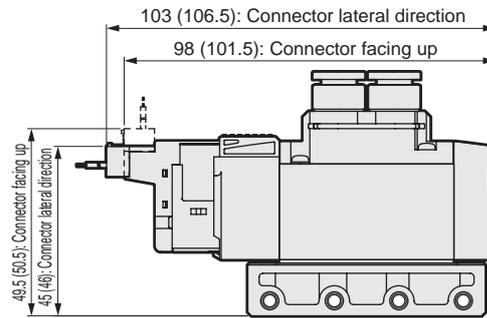
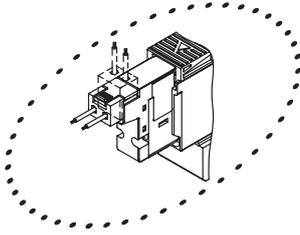
● Rc1/8 female thread (06)



Electrical connections	A	B
Grommet lead wire	4	93.7
E, EJ connector (facing up), DC voltage		102
E, EJ connector (facing up), AC voltage		105.5
DIN terminal box (inner direction)		112.7

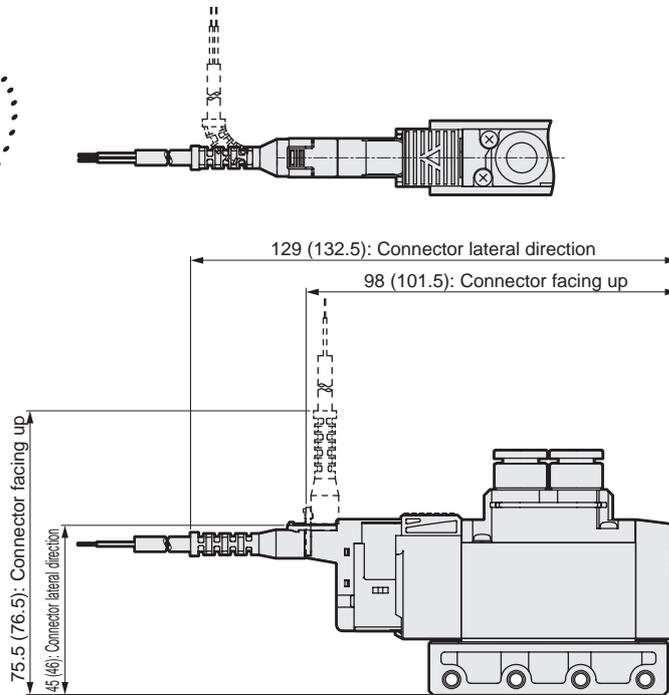
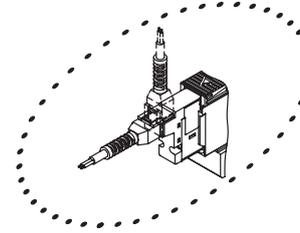
## Dimensions

● E connector (E)



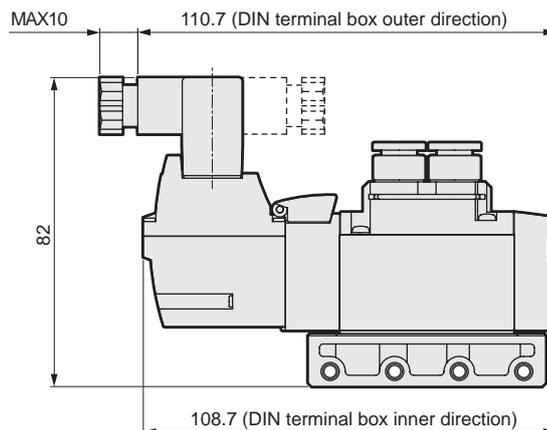
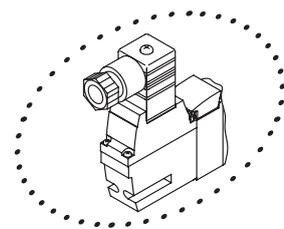
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

**4GA/B**

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GA2 Series

Discrete valve; body piping

## Dimensions



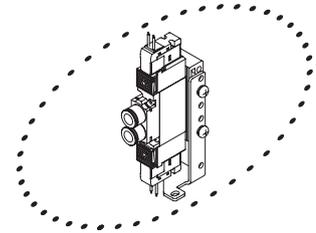
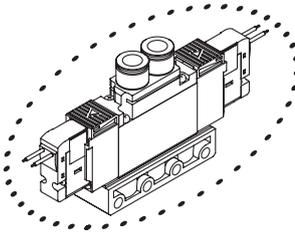
4GA220R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2-position double grommet lead wire (blank)

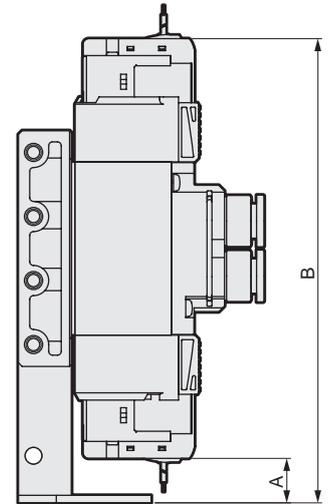
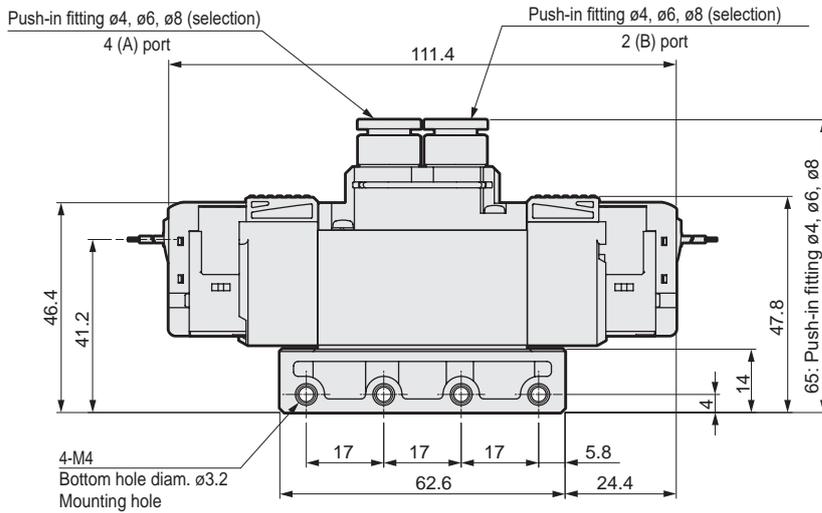
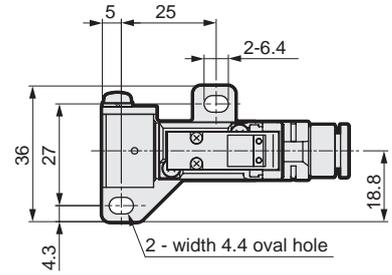
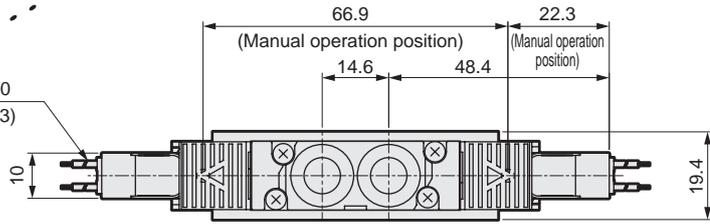
3GA2660R, 3GA2670R, 3GA2760R, 3GA2770R-P7\*

● Dual 3-port valve integrated grommet lead wire (blank)

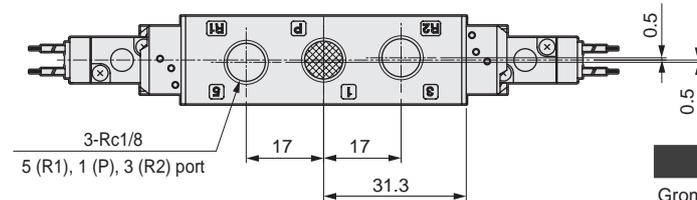
● Mounting plate (P)



Lead wire length 300  
(AWG#26, O.D. ø1.3)

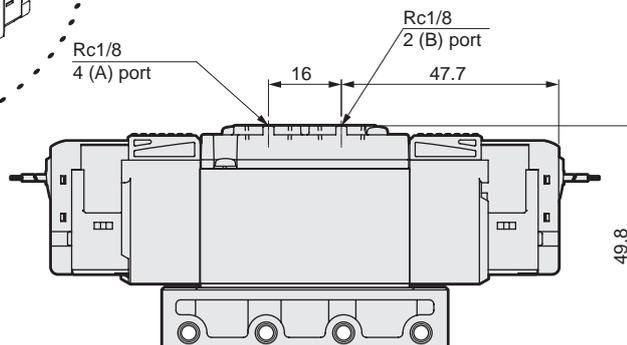
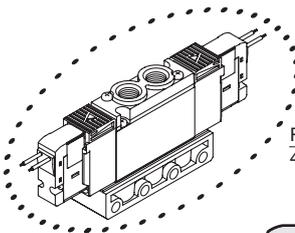


\*Refer to page 753 for details on mounting holes.



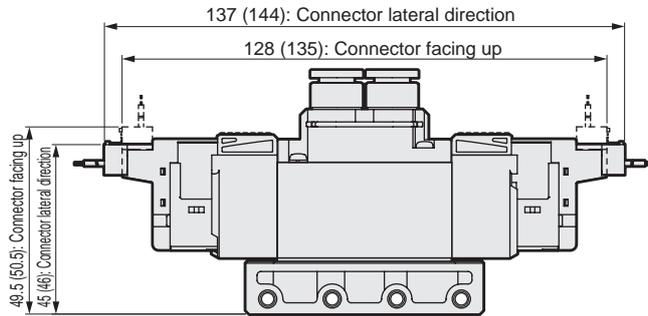
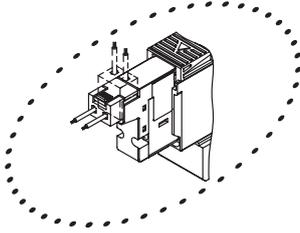
Electrical connections	A	B
Grommet lead wire	11.8	123.2
E, EJ connector (facing up), DC voltage	3.5	131.5
E, EJ connector (facing up), AC voltage	10.5	148.5
DIN terminal box (inner direction)	3	152.4

● Rc1/8 female thread (06)



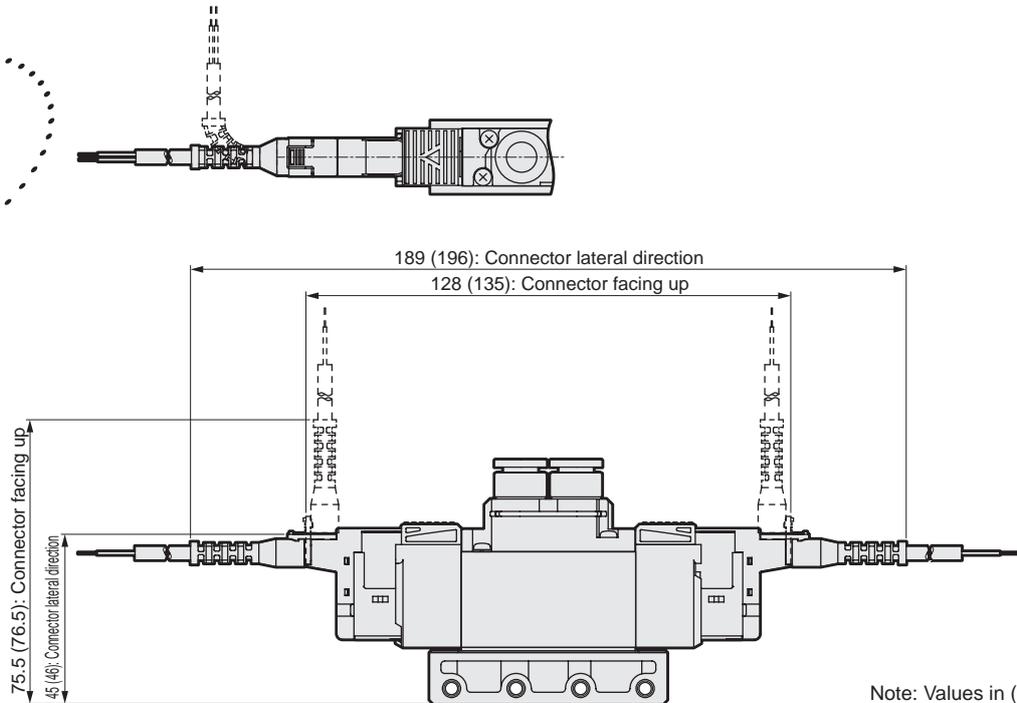
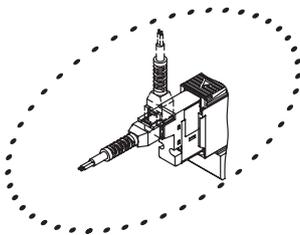
## Dimensions

● E connector (E)



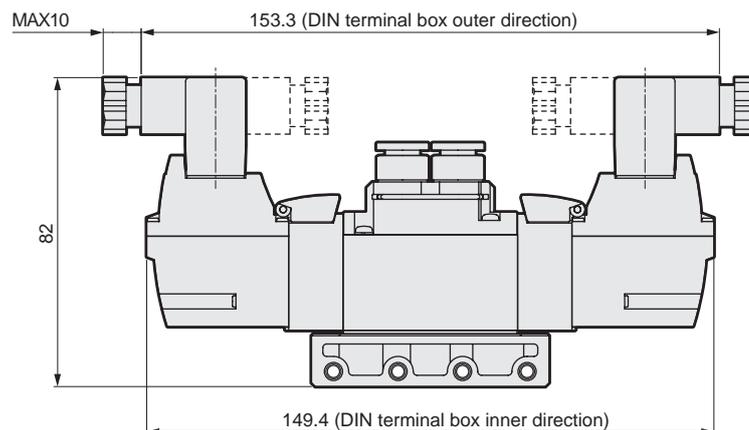
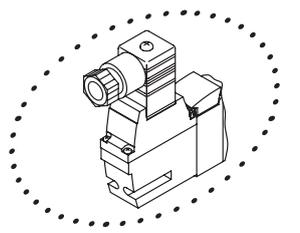
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GA2 Series

Discrete valve; body piping

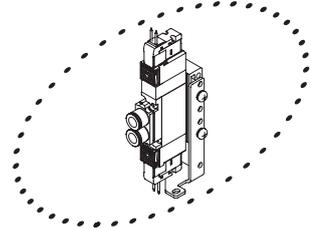
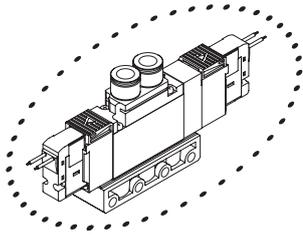
## Dimensions



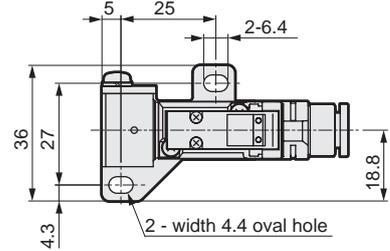
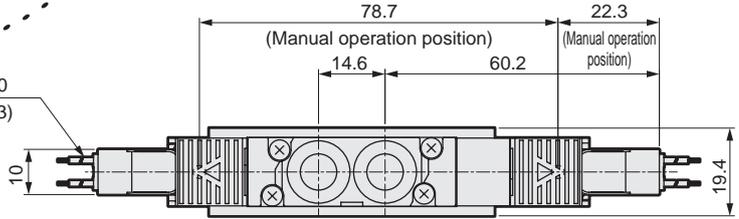
4GA2<sup>3</sup>/<sub>3</sub>OR-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 3 position grommet lead wire (blank)

● Mounting plate (P)

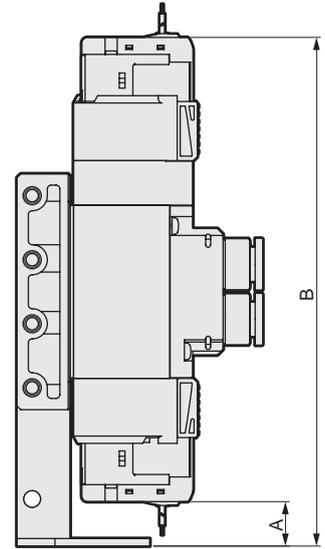
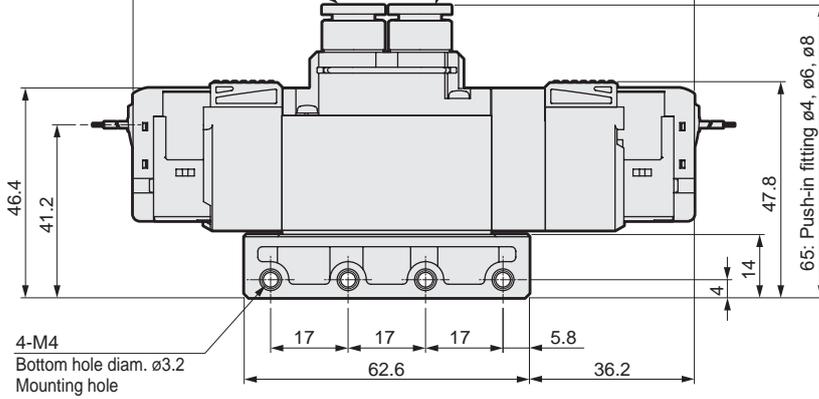
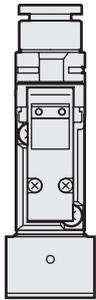


Lead wire length 300  
(AWG#26, O.D. ø1.3)

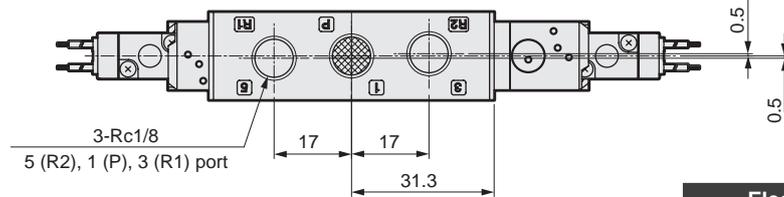


Push-in fitting ø4, ø6, ø8 (selection)  
4 (A) port

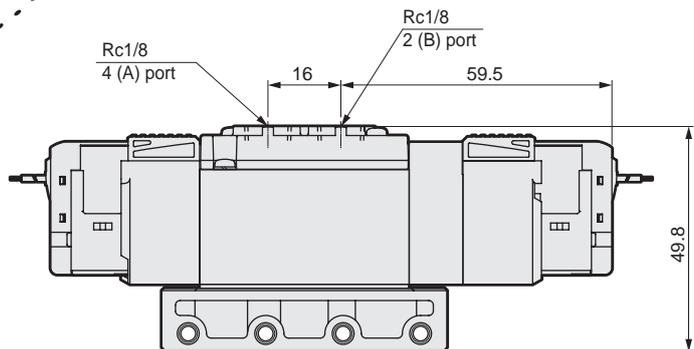
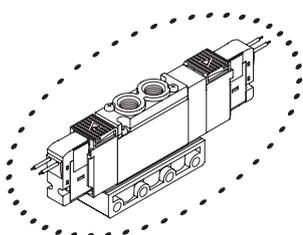
Push-in fitting ø4, ø6, ø8 (selection)  
2 (B) port



\*Refer to page 753 for details on mounting holes.



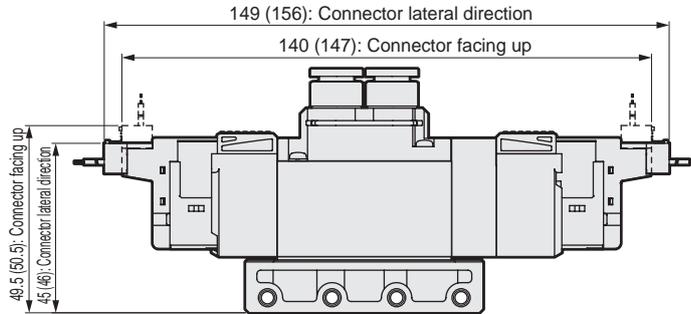
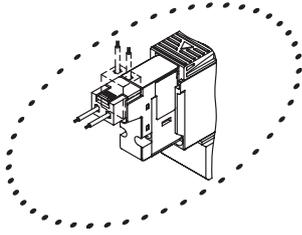
● Rc1/8 female thread (06)



Electrical connections	A	B
Grommet lead wire	11.8	135
E, EJ connector (facing up), DC voltage	3.5	143
E, EJ connector (facing up), AC voltage	10.5	160.5
DIN terminal box (inner direction)	3	164.2

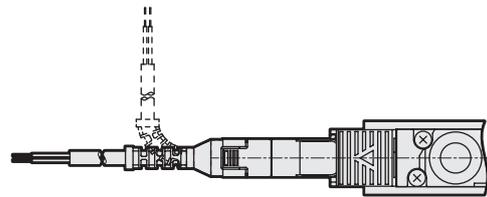
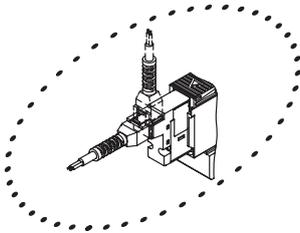
## Dimensions

### ● E connector (E)

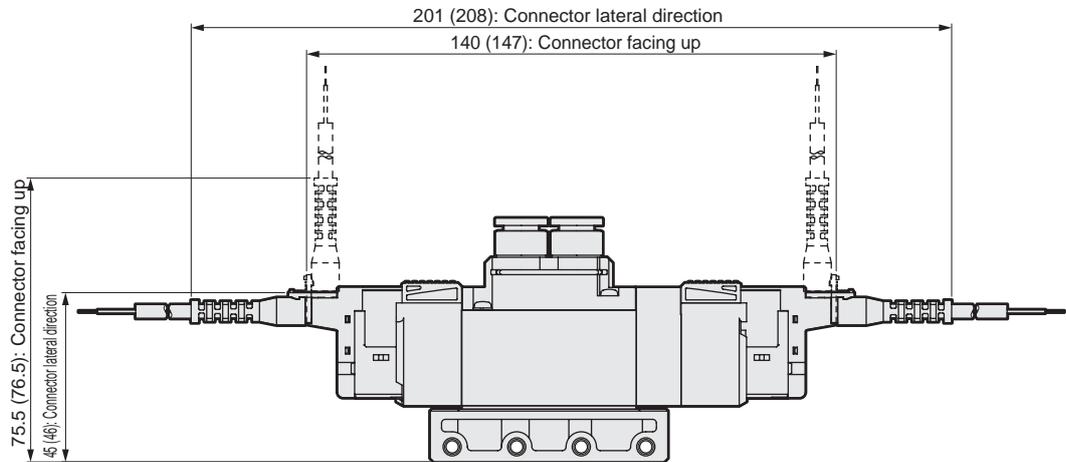


Note: Values in ( ) are applicable to AC voltages.

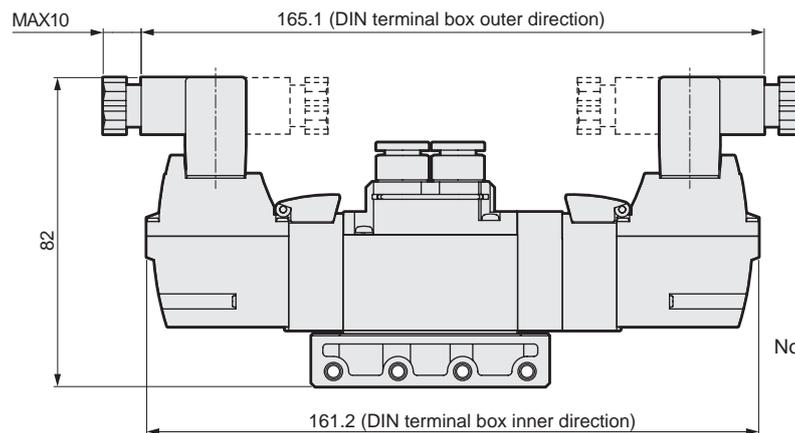
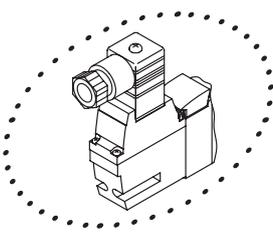
### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.



### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GA3 Series

Discrete valve; body piping

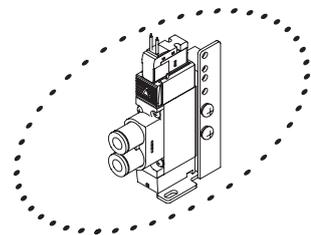
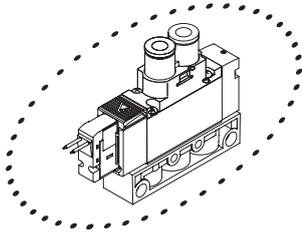
## Dimensions



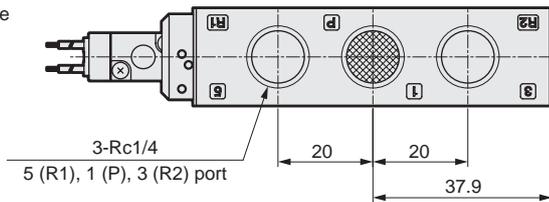
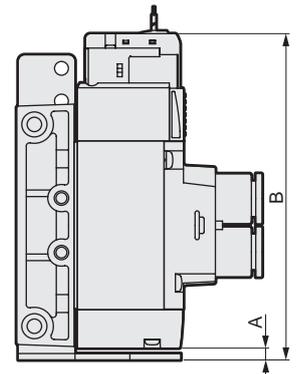
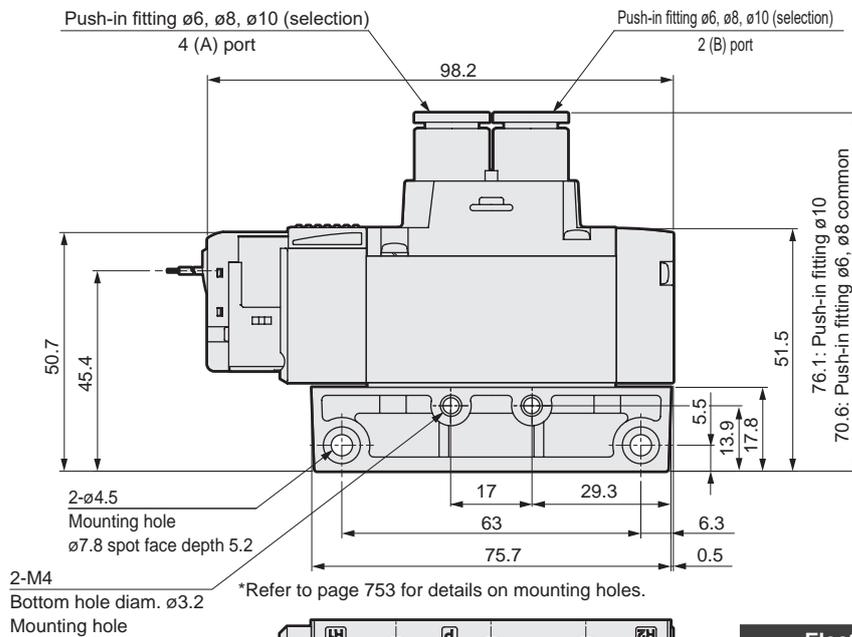
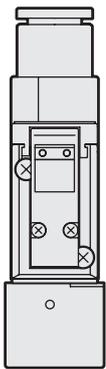
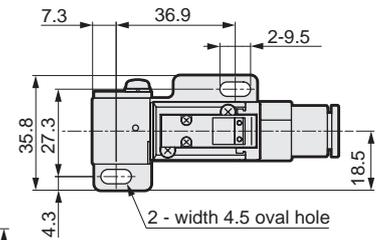
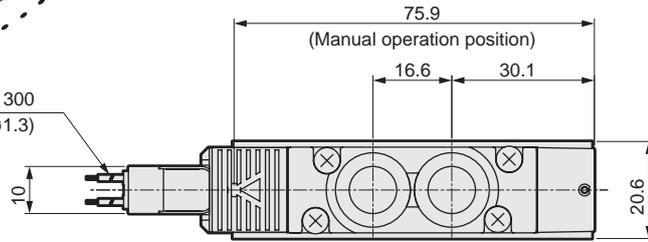
4GA310R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2-position single grommet lead wire (blank)

● Mounting plate (P)

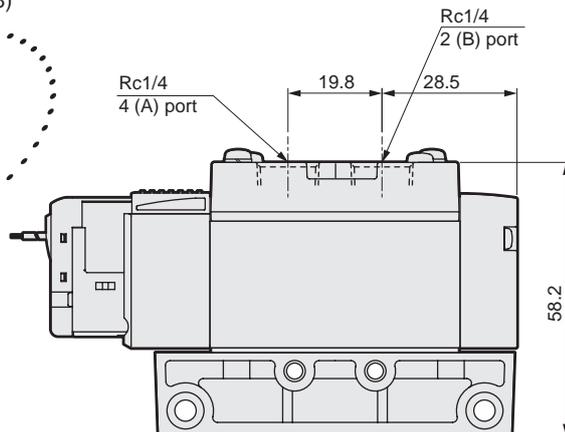
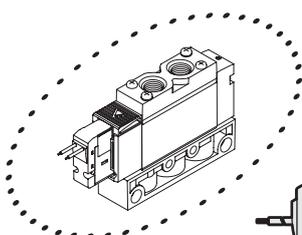


Lead wire length 300  
(AWG#26, O.D.  $\phi$ 1.3)



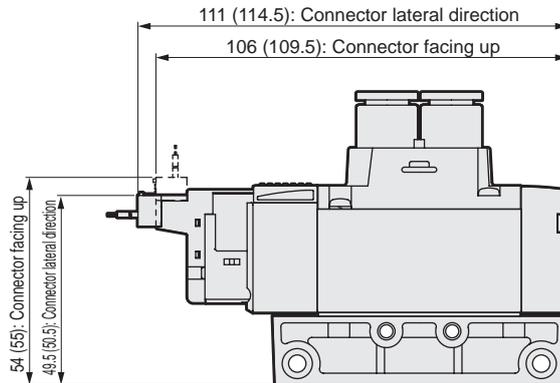
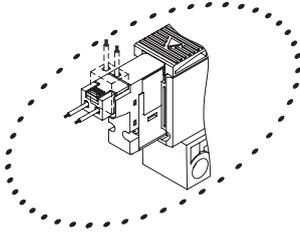
Electrical connections	A	B
Grommet lead wire	3.7	101.8
E, EJ connector (facing up), DC voltage		110
E, EJ connector (facing up), AC voltage		113.5
DIN terminal box (inner direction)		120.9

● Rc1/4 female thread (08)



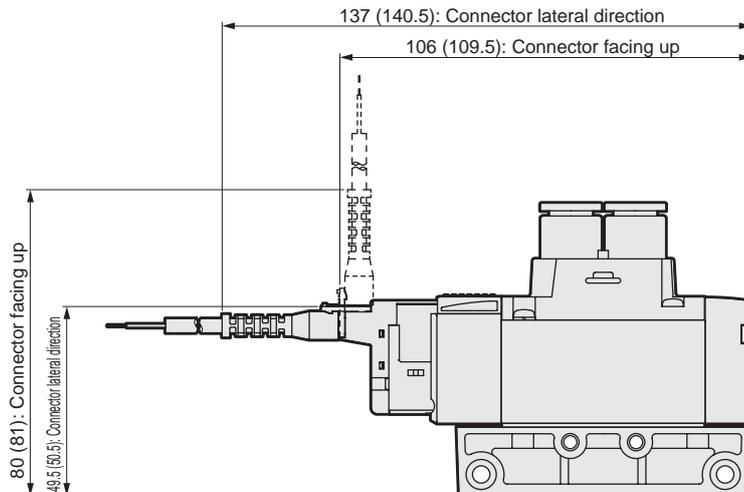
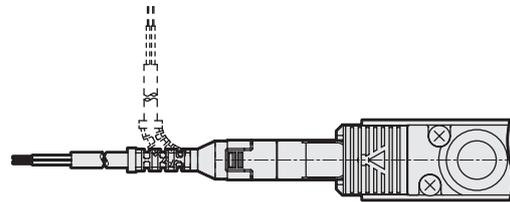
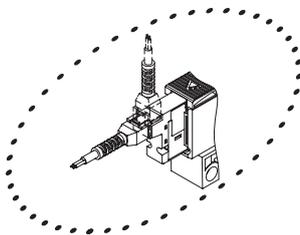
## Dimensions

### ● E connector (E)



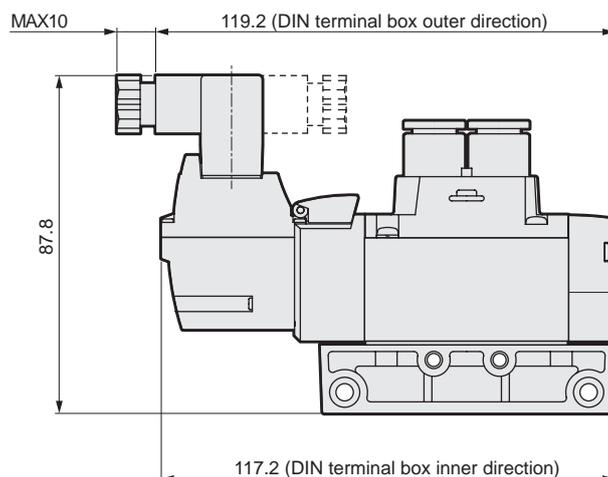
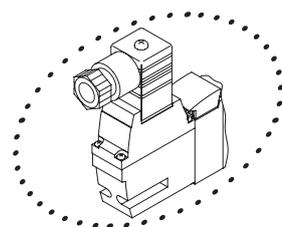
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GA3 Series

Discrete valve; body piping

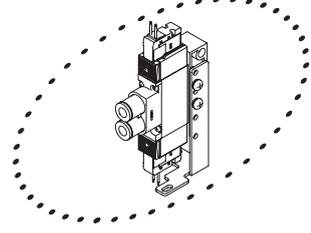
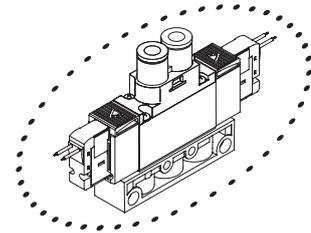
## Dimensions



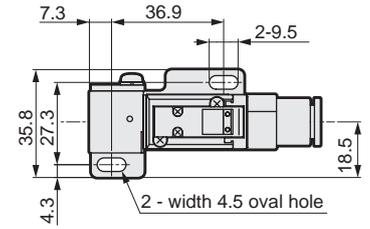
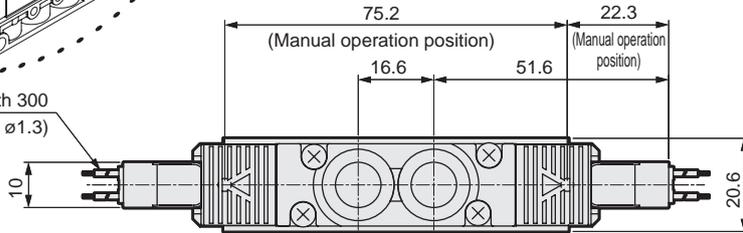
4GA320R-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 2-position double grommet lead wire (blank)

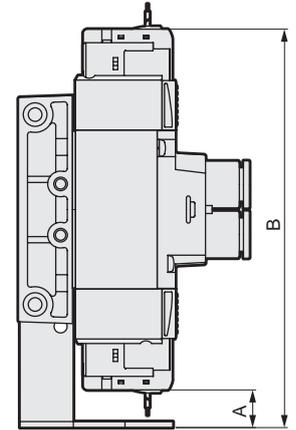
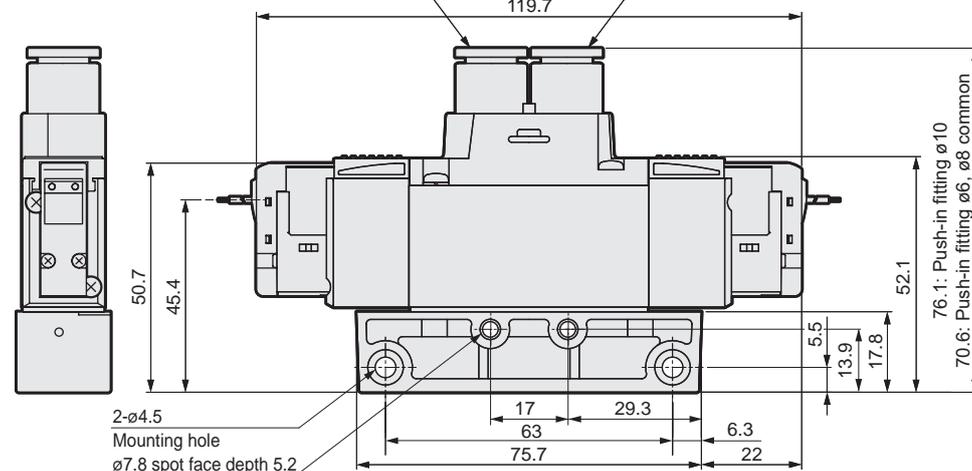
● Mounting plate (P)



Lead wire length 300  
(AWG#26, O.D.  $\phi 1.3$ )

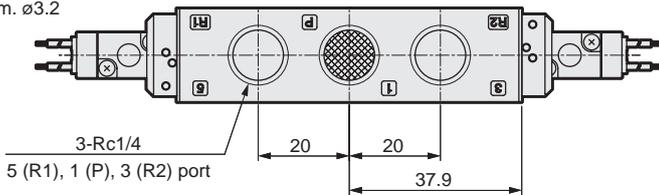


Push-in fitting  $\phi 6, \phi 8, \phi 10$  (selection)  
4 (A) port      2 (B) port



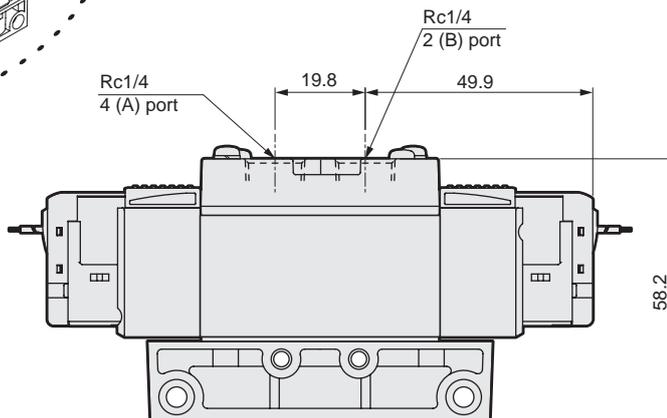
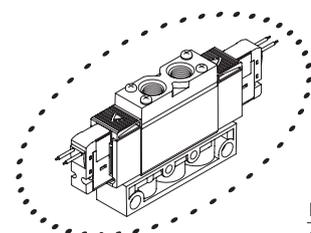
2-M4  
Bottom hole diam.  $\phi 3.2$   
Mounting hole

\*Refer to page 753 for details on mounting holes.



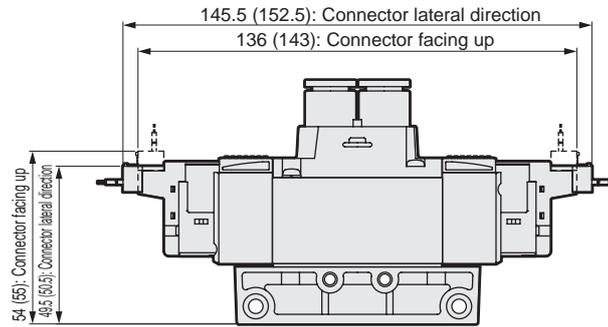
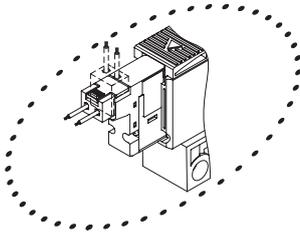
Electrical connections	A	B
Grommet lead wire	12.6	132.2
E, EJ connector (facing up), DC voltage	4.5	140.5
E, EJ connector (facing up), AC voltage	11	157.5
DIN terminal box (inner direction)	3.7	161.4

● Rc1/4 female thread (08)



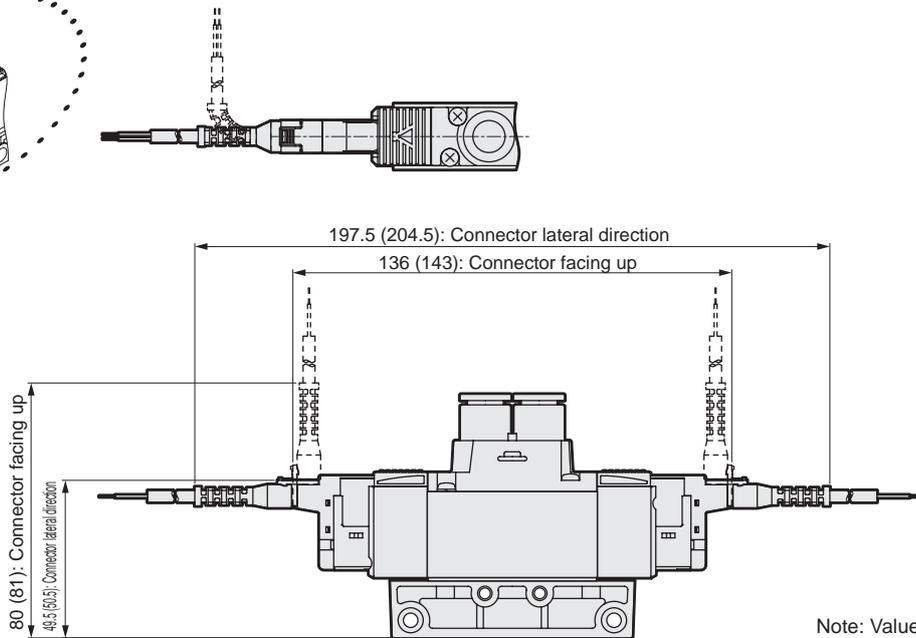
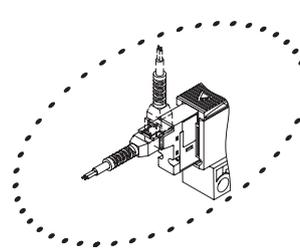
## Dimensions

### ● E connector (E)



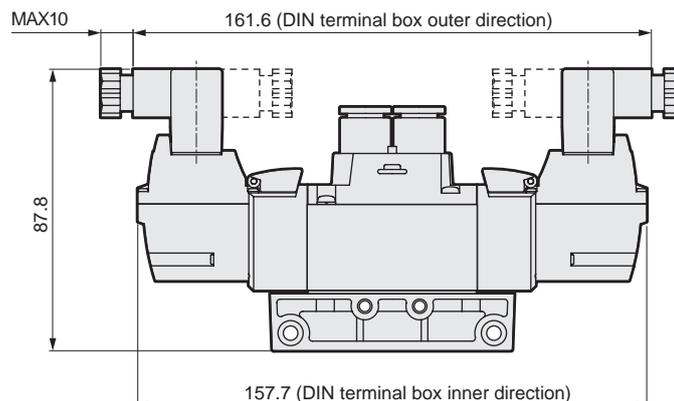
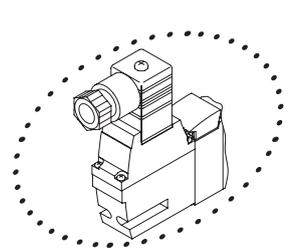
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GA3 Series

Discrete valve; body piping

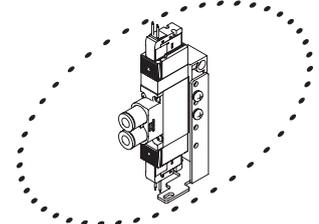
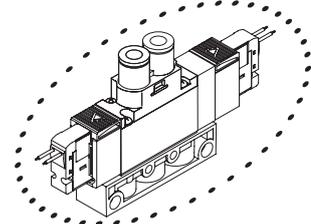
## Dimensions



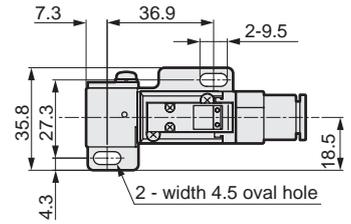
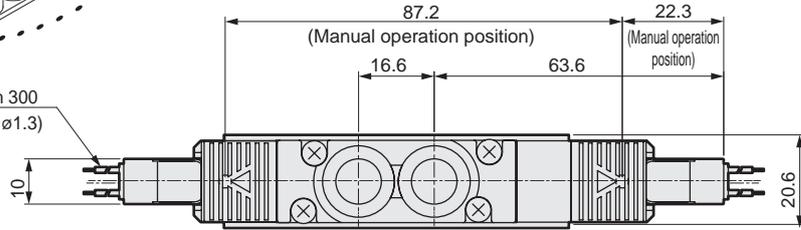
4GA3<sup>3</sup><sub>3</sub>OR-P7\* \* For the NPT thread and G thread specifications, refer to pages 464 to 471.

● 3 position grommet lead wire (blank)

● Mounting plate (P)

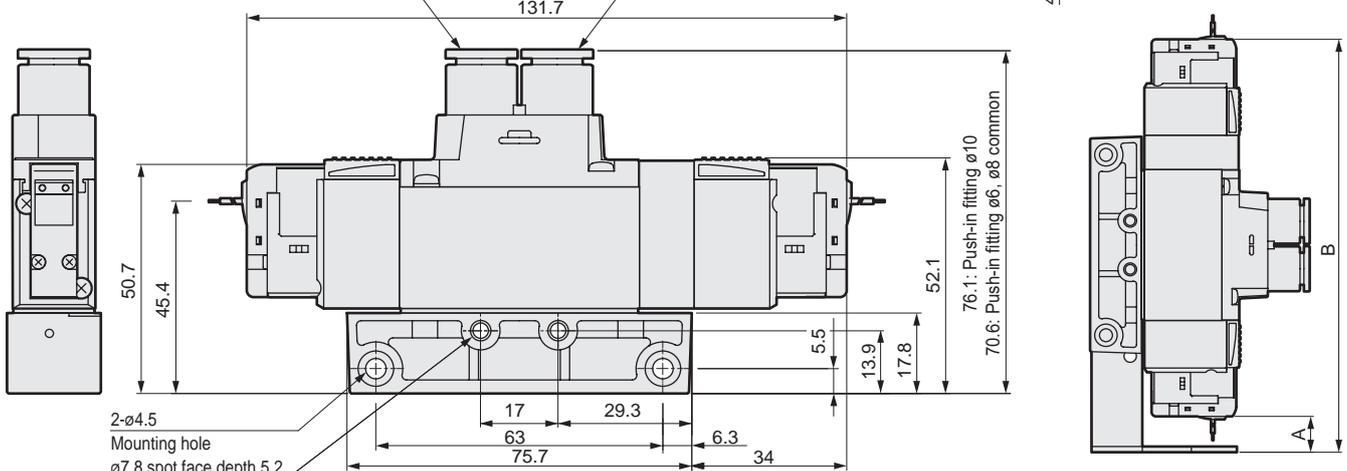


Lead wire length 300  
(AWG#26, O.D. ø1.3)



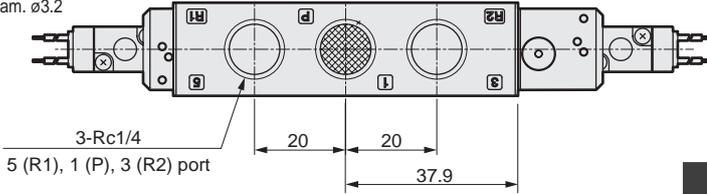
Push-in fitting ø6, ø8, ø10 (selection)  
4 (A) port

Push-in fitting ø6, ø8, ø10 (selection)  
2 (B) port

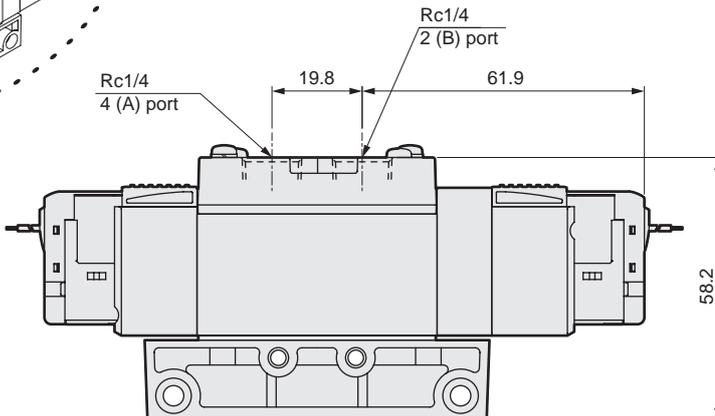
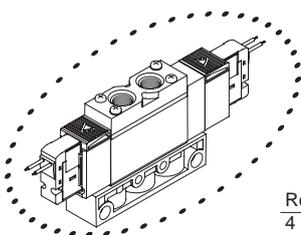


2-M4  
Bottom hole diam. ø3.2  
Mounting hole

\*Refer to page 753 for details on mounting holes.



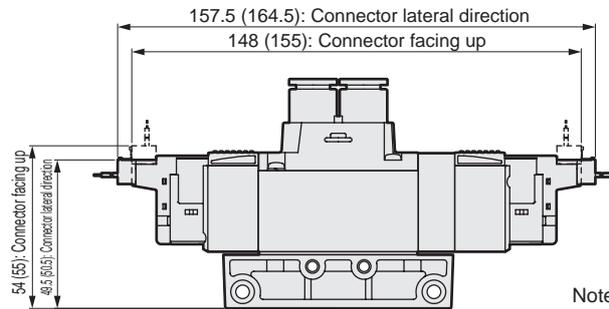
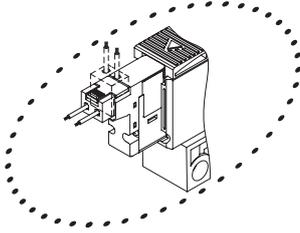
● Rc1/4 female thread (ø8)



Electrical connections	A	B
Grommet lead wire	12.6	144.3
E, EJ connector (facing up), DC voltage	4.5	152.5
E, EJ connector (facing up), AC voltage	11	169.5
DIN terminal box (inner direction)	3.7	173.4

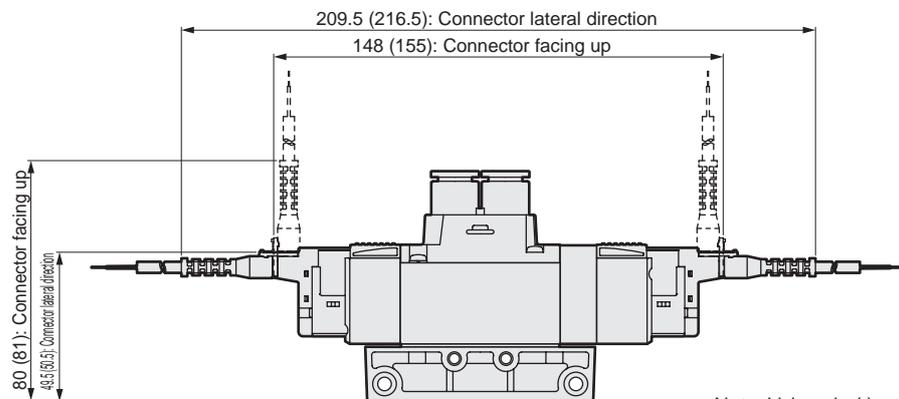
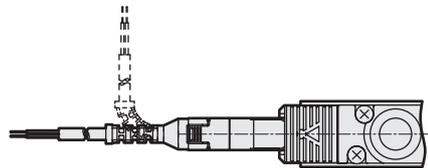
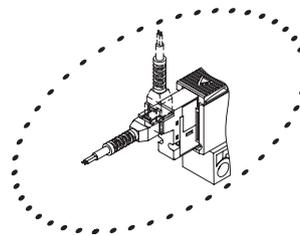
## Dimensions

### ● E connector (E)



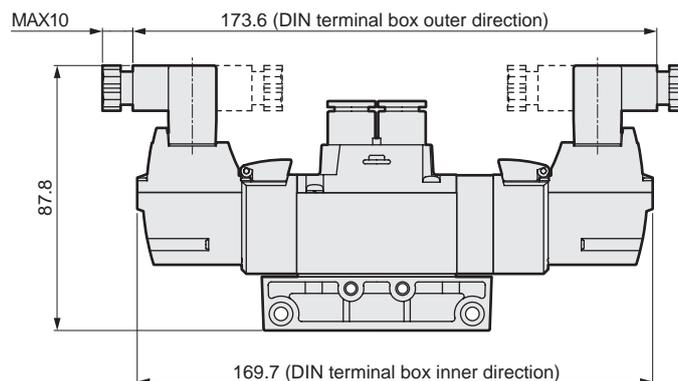
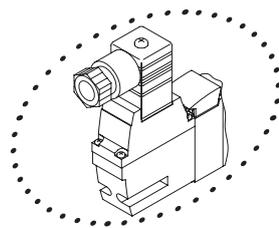
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# 3GA1/4GA1 Series

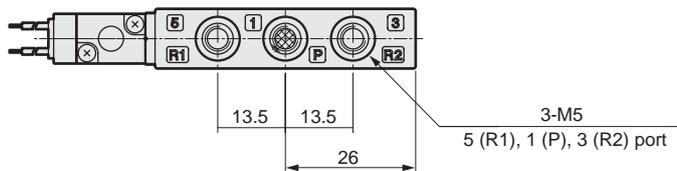
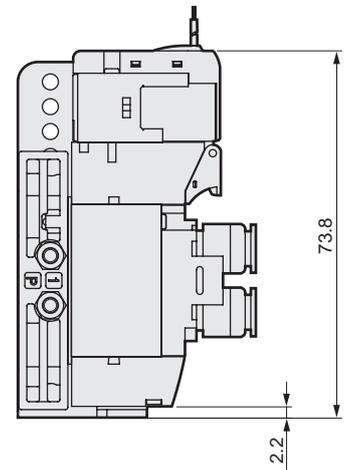
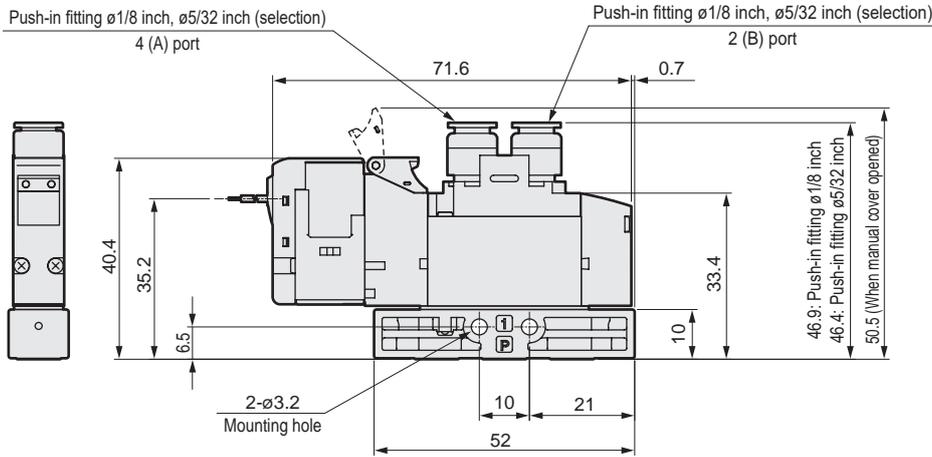
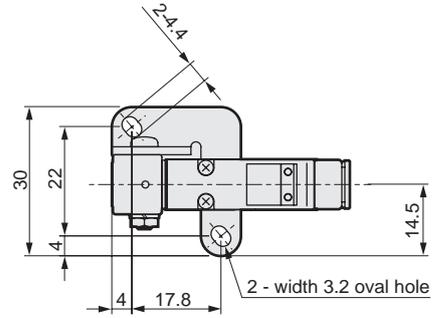
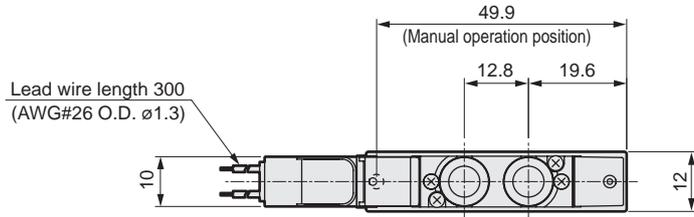
Discrete valve; body piping

Dimensions Port size; NPT thread

3GA1<sup>1</sup><sub>11</sub>0R-P7\*, 4GA1<sup>1</sup><sub>11</sub>0R-P7\*

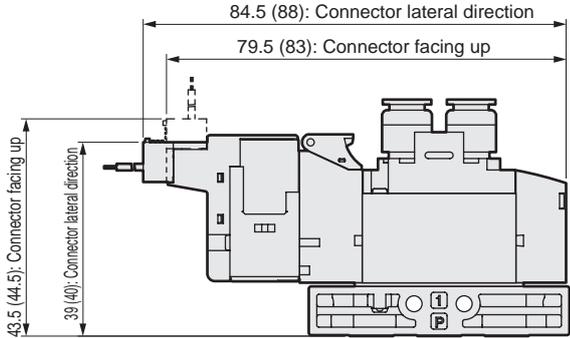
● 2-position single grommet lead wire (blank)

● Mounting plate (P)



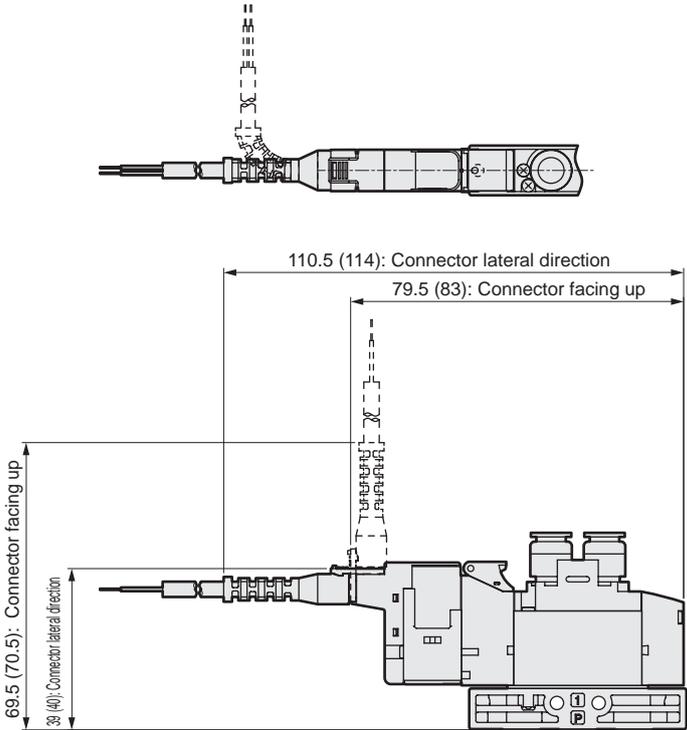
Dimensions Port size; NPT thread

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GA2/4GA2 Series

Discrete valve; body piping

Dimensions Port size; NPT thread

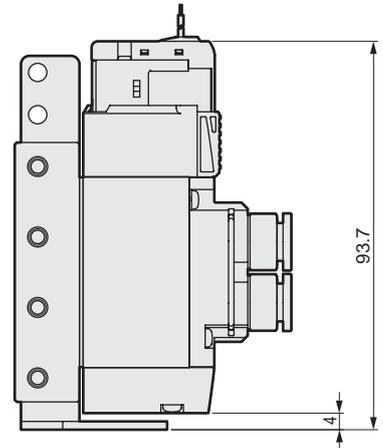
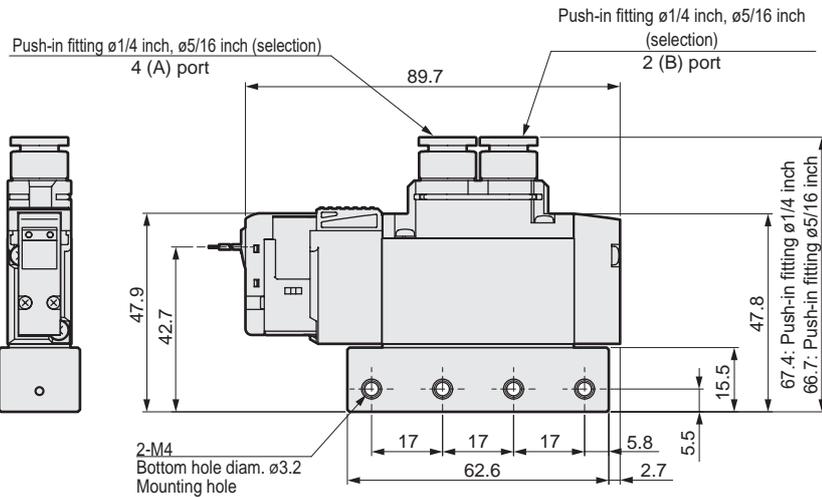
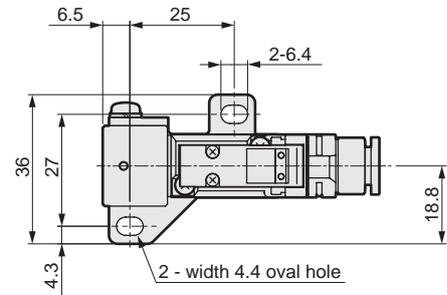
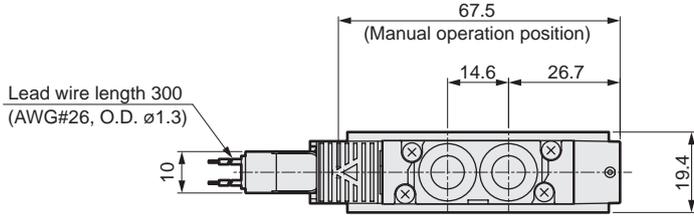
3GA2<sup>1</sup>0R-P7\*, 4GA2<sup>1</sup>0R-P7\*

11  
66  
67  
76  
77

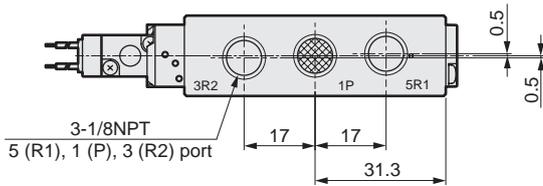
1  
2  
3  
4  
5

● 2-position single grommet lead wire (blank)

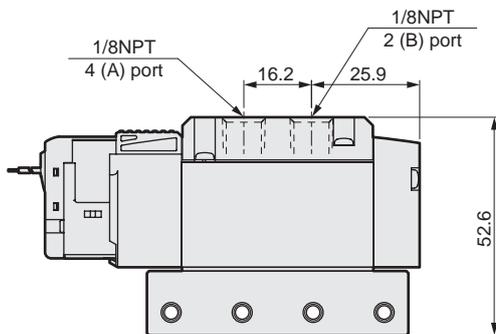
● Mounting plate (P)



\*Refer to page 753 for details on mounting holes.

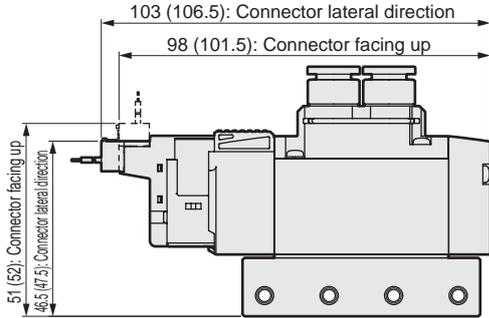


● 1/8NPT female thread (06N)



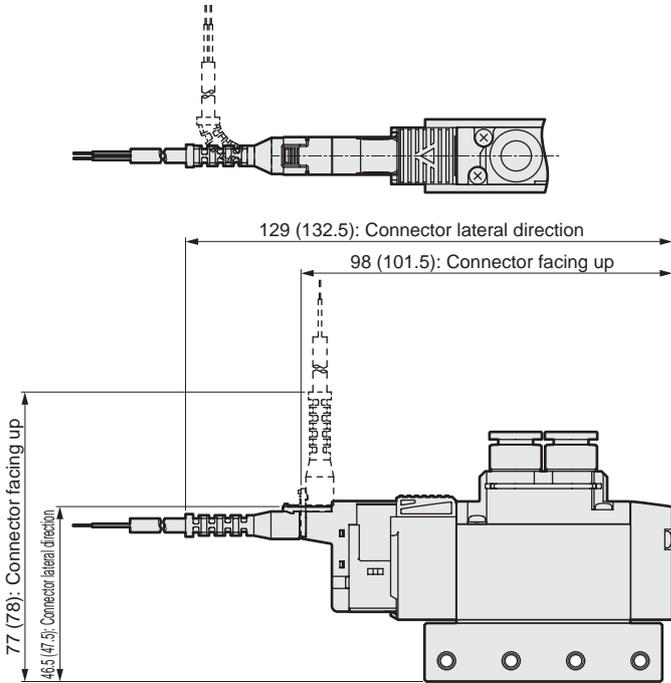
Dimensions Port size; NPT thread

● E connector (E)



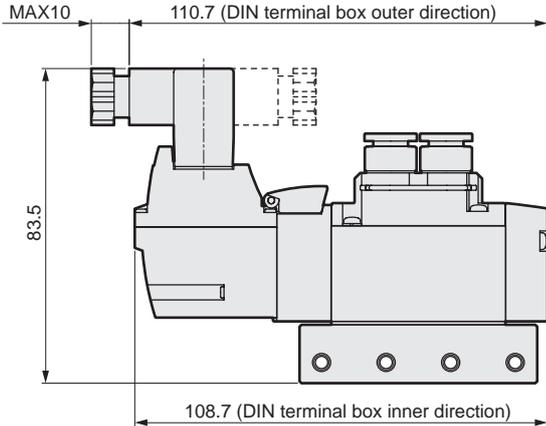
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GA3/4GA3 Series

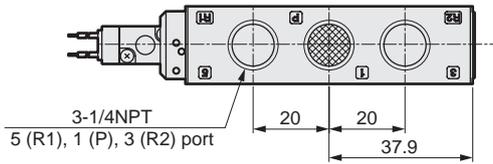
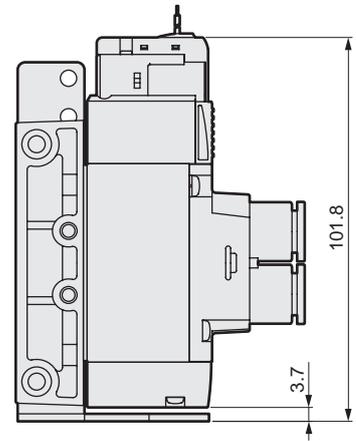
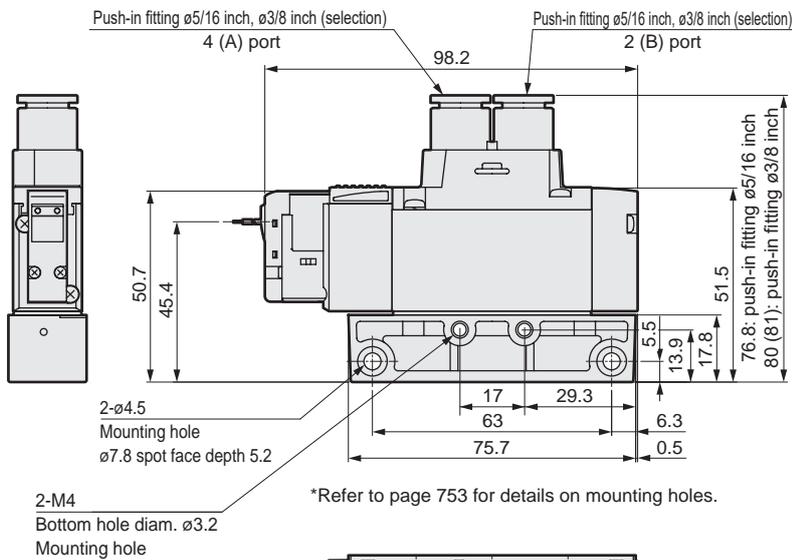
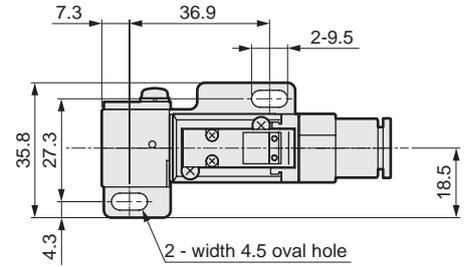
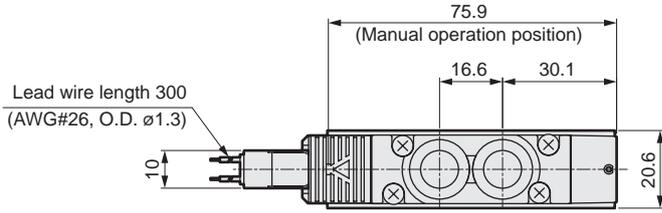
Discrete valve; body piping

Dimensions Port size; NPT thread

3GA3<sup>1</sup>/<sub>1</sub>0R-P7\*, 4GA3<sup>1</sup>/<sub>1</sub>0R-P7\*

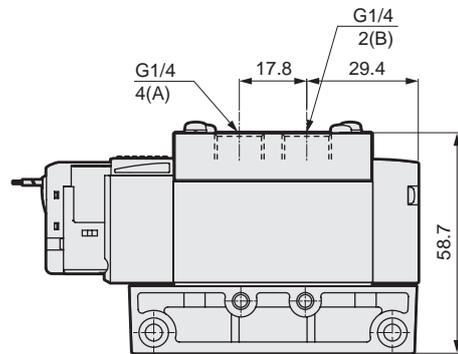
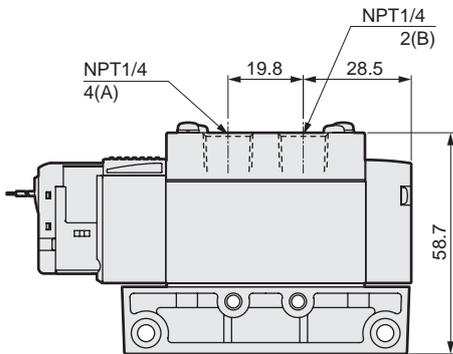
● 2-position single grommet lead wire (blank)

● Mounting plate (P)



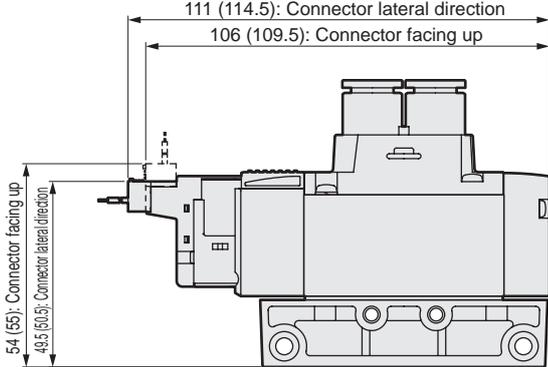
● NPT1/4 female thread (08N)

● G1/4 female thread (08G)



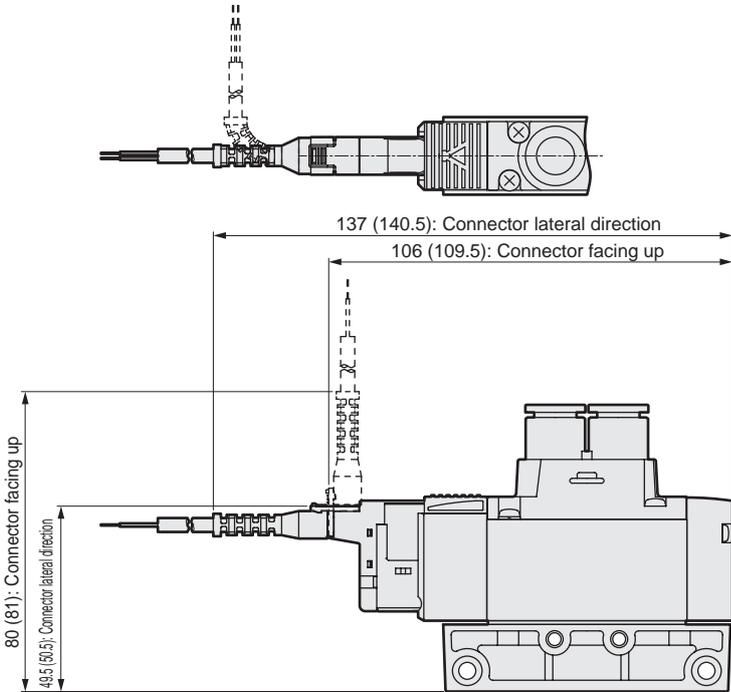
Dimensions Port size; NPT thread

● E connector (E)



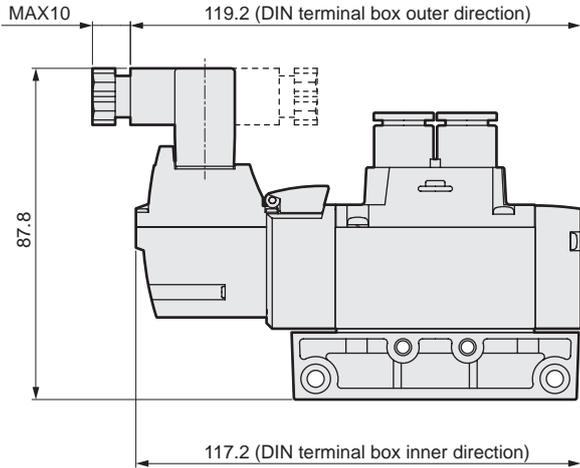
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GA2/4GA2 Series

Discrete valve; body piping

Dimensions Port size; G thread

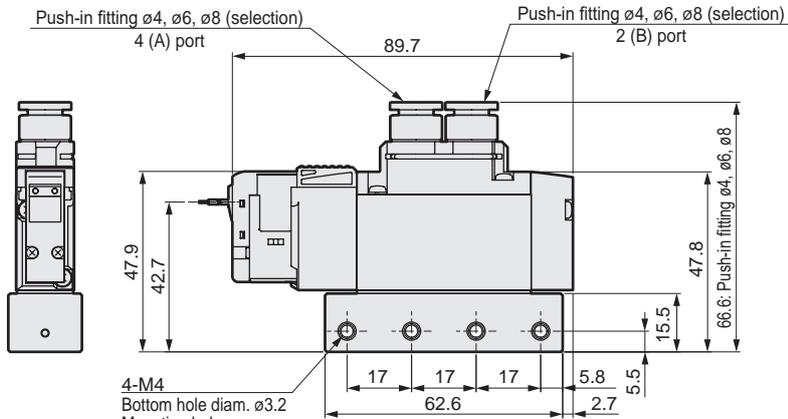
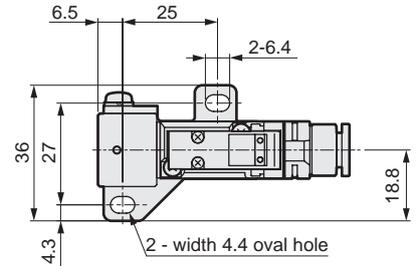
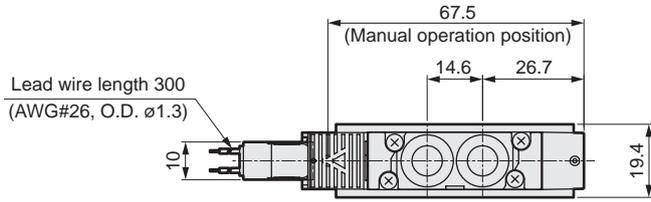
3GA2<sup>1</sup><sub>11</sub> 0R-P7\*, 4GA2<sup>1</sup><sub>22</sub> 0R-P7\*

66  
67  
76  
77

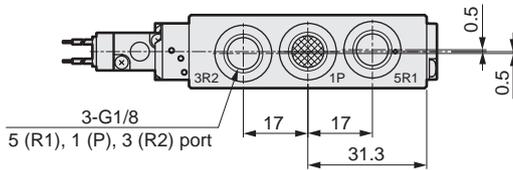
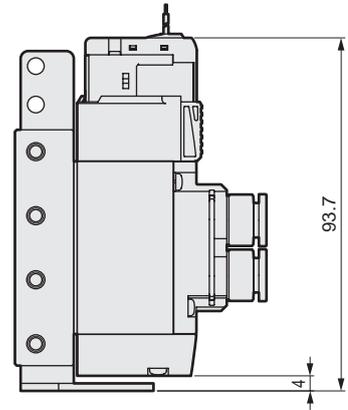
4.3  
5

● 2-position single grommet lead wire (blank)

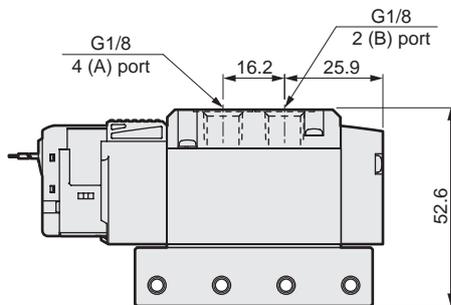
● Mounting plate (P)



\*Refer to page 753 for details on mounting holes.

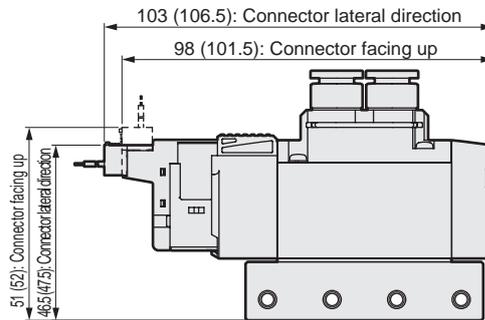


● G1/8 female thread (06G)



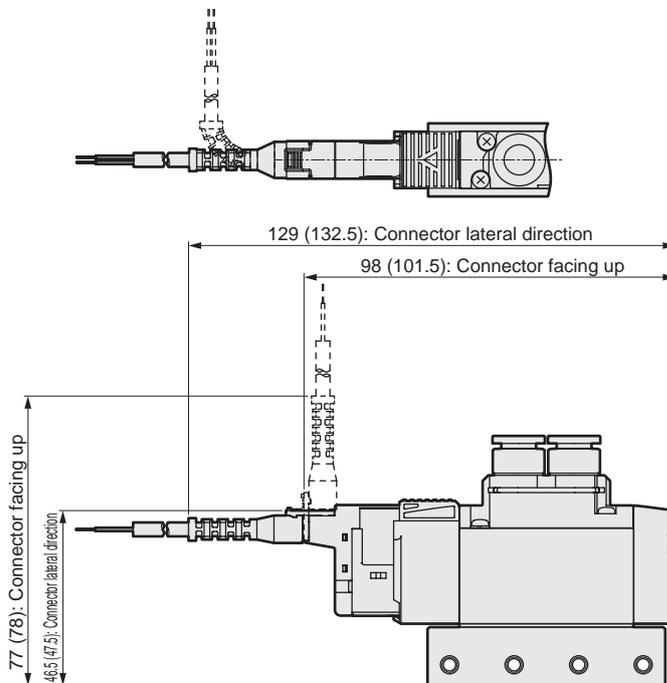
## Dimensions Port size; G thread

● E connector (E)



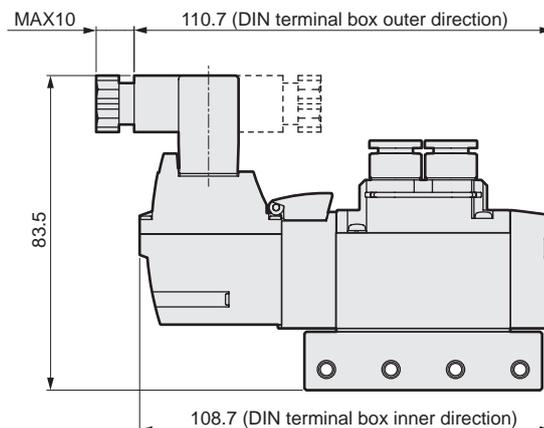
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

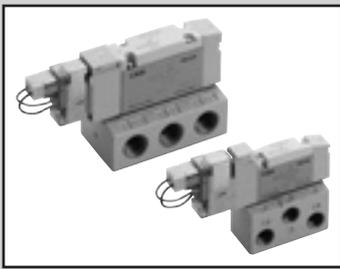
Pressure sensor

Flow rate sensor

Valve for air blow

Ending

SCPD3  
SCM  
SSD2  
MDC2  
SMG  
LCM  
LCR  
LCG  
LCX  
STM  
STG  
STR2  
MRL2  
GRC  
Cylinder switch  
MN3E  
MN4E  
4GA/B  
M4GA/B  
MN4GA/B  
F.R (module unit)  
Clean F.R  
Precision R  
Press gauge  
Diff. press gauge  
Electro-pneumatic R  
Speed controller  
Auxiliary valve  
Fitting/tube  
Clean air unit  
Pressure sensor  
Flow rate sensor  
Valve for air blow  
Ending



Discrete valve  
Base piping

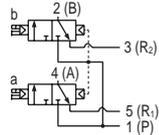
# 3GB1, 2/4GB1, 2, 3 Series

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

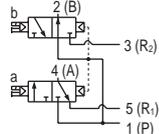


## JIS symbol

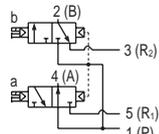
● Dual 3-port valve integrated  
(A side valve: NC, B side valve: NC)



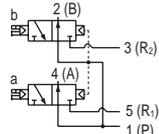
(A side valve: NC, B side valve: NO)



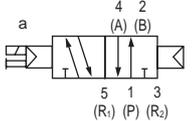
(A side valve: NO, B side valve: NC)



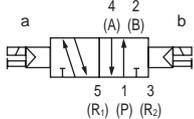
(A side valve: NO, B side valve: NO)



● 5-port valve  
2-position single

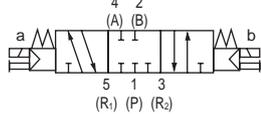


2-position double

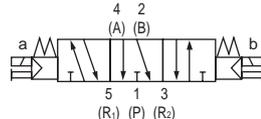


3-position

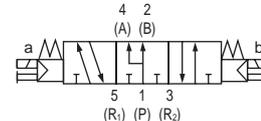
All ports closed



3-position A/B/R connection



3 positions P/A/B connection



## Structure and material restriction

	Structure	Material restriction			Model No.
P7 Series	Dust generation preventing				— P70
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— P74 Custom order product

## Common specifications

Item	Description	
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working press. MPa	0.7	
Min. working press. MPa	0.2 (*3)	
Proof pressure MPa	1.05	
Ambient temp °C	-5 to 55 (no freezing)	
Fluid temp °C	5 to 55	
Manual override	N oN-lock/locking common (standard)	
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust
	External pilot	Main valve/pilot valve individual exhaust
Lubrication (*1)	Not required	
Degree of protection (*2)	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 environments	

\*1 Use turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.  
\*2 Avoid dripping water or oil, etc., during use. IP65 (water jet proof) applies for DIN terminal box specifications. However, the specified outer diameter of the cord and tightening torque must be used for fixing in place.  
\*3 The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

## Electrical specifications

Item	Description	Rated voltage V					
		DC24	DC12	DC5	DC3	AC100	AC200
Voltage fluctuation range		±10□					
Holding current (A) (*4)	Standard	0.015 (0.017)	0.030 (0.034)	0.072 (0.082)	0.120 (0.136)	0.009 (0.009)	0.006 (0.006)
	With low exoergic/energy circuit	0.005	0.010	-	-	-	-
Power consumption W (*4)	Standard	0.35(0.40)		0.35(0.40)		-	
	With low exoergic/energy circuit	0.1		-		-	
Apparent power VA (*4) (*5)	Standard	-		-		0.93 (0.98)	1.40
Thermal class	B						
Surge suppressor	Option						
Indicator	Lamp (option)						

\*4: Values in ( ) apply when lamp is included. In addition, the type with low exoergic/energy circuit is only available with lamp.  
\*5: 200 VAC is the value of DIN terminal box with lamp.

## Individual specifications

Port size		3GB1/4GB1	3GB2/4GB2	4GB3
Rc thread	A/B port	Rc1/8	Rc1/4	Rc1/4, Rc3/8
	P/R1/R2 port	Rc1/8	Rc1/4	Rc1/4, Rc3/8
NPT thread (*6)	A/B port	1/8NPT	1/4NPT	1/4NPT, 3/8NPT
	P/R1/R2 port	1/8NPT	1/4NPT	1/4NPT, 3/8NPT
G thread (*6)	A/B port	G1/8	G1/4	G1/4, G3/8
	P/R1/R2 port	G1/8	G1/4	G1/4, G3/8

\*6: Available as made to order.

## Performance/characteristics by model

Descriptions	3GB1/4GB1		3GB2/4GB2		4GB3		
	ON	OFF	ON	OFF	ON	OFF	
Response time ms	Dual 3-port valve integrated		9	12	12	29	-
	2-position	Single	12	12	19	19	25
		Double	9	-	18	-	24
	3-position	ABR connection	8	15	17	30	23

Values with a lamp/surge suppressor are shown. The response time is the value at the 0.5 MPa supply pressure, 20°C, with no lubrication. It depends on the pressure and the lubricant quality.

# 3GB1, 2/4GB1, 2, 3 Series

Discrete valve; base piping

## Weight

Item				3GB1/4GB1	3GB2/4GB2	4GB3	
Weight	g	2-position	Single	Grommet lead wire	80 (38)	156 (74)	215 (96)
				E connector	82 (40)	158 (76)	217 (98)
				DIN terminal box	-	193 (111)	249 (130)
		2-position	Double	Grommet lead wire	97 (55)	173 (91)	233 (114)
				E connector	101 (59)	177 (95)	237 (118)
				DIN terminal box	-	216 (134)	273 (154)
		3-position	All ports closed	Grommet lead wire	98 (56)	184 (102)	242 (123)
				E connector	102 (60)	188 (106)	246 (127)
				DIN terminal box	-	227 (145)	282 (163)

- Values in ( ) do not include a discrete sub-plate. Values for the E connector include the socket assembly (with 300 mm lead wire). For the EJ connector, add 16 g/connector to the E connector weight.
- The weight of dual 3-port valve integrated is the same as that of 2-position double.

## Flow characteristics

Model No.	Solenoid position		P→A/B		A/B→R1/R2	
			C [dm <sup>3</sup> /(s·bar)]	b	C [dm <sup>3</sup> /(s·bar)]	b
3GB1 4GB1	Dual 3-port valve integrated		0.92	0.08	1.1	0.26
	2-position		1.3	0.27	1.2	0.22
	3-position	All ports closed	1.1	0.31	1.1	0.27
		ABR connection	1.1	0.31	1.3	0.29
		PAB connection	1.4	0.30	1.1	0.26
3GB2 4GB2	Dual 3-port valve integrated		1.7	0.42	2.1	0.26
	2-position		2.6	0.20	2.6	0.19
	3-position	All ports closed	2.3	0.32	2.2	0.22
		ABR connection	2.2	0.23	2.6	0.16
		PAB connection	2.4	0.10	2.4	0.22
4GB3	2-position		4.3	0.24	4.2	0.24
	3-position	All ports closed	3.3	0.40	3.4	0.27
		ABR connection	3.3	0.36	4.2	0.18
		PAB connection	4.5	0.28	3.4	0.30

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

Ozone proof specifications • Cutting oil prohibited specifications

This can be set by selecting option “A” of ⑤ in how to order on page 474.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GB1, 2/4GB1, 2, 3 Series

Discrete valve; base piping

## How to order

4GB1 1 0 R - 06 - E2 - 3 - P7

3GB1 66 0 R - 06 - E2 - 3 - P7

Discrete valve for mounting base

4GB1 1 9 R - 00 - E2 H - 3 - P7

3-port discrete valve for mounting base

3GB1 66 9 R - 00 - E2 H - 3 - P7

**A** Model No.      **B** Solenoid position      **C** Port size      **D** Electrical connections      **E** Option      **F** Voltage

## ⚠ Precautions for model No. selection

- \*1: Combinations with an external pilot (K) are not supported. In addition, the external dimensions are the same dimensions as each of the 2-position double solenoids.
- \*2: Custom order product
- \*3: **3-position all ports closed and PAB connection are not provided with the exhaust check valve. Refer to page 751 for details on the exhaust check valve.**
- \*4: Only E2\* and E2\*J connectors and 12/24 VDC are supported. In addition, selecting a combination of surgeless "S" and the low exoergic/energy-saving circuit "E" is not allowed.
- \*5: Applicable to surgeless specifications
- \*6: P port is equipped with a filter as standard.
- \*7: Supported only for the DIN terminal box.
- \*8: The grommet lead wire specifications are only applicable to DC voltages.
- \*9: AC voltage and 12/24VDC are supported. The lamp is incorporated in the terminal box.
- \*10: AC voltage is provided with a rectifier circuit.
- \*11 Terminal box is EN175301-803Type C. (Old DIN 43650-C) compliant.
- \*12: A (ozone compatible) and **G** clean room specifications P74 cannot be combined.
- \*13: Copper-, silicon-, and halogen-free specifications are available with support for the main valve section.
- \*14: P74 Series is a custom order product.

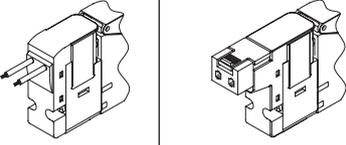
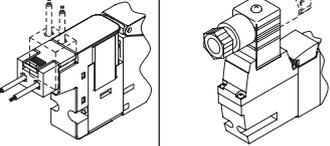
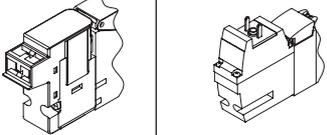
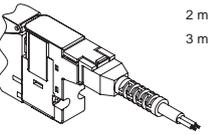
		A Model No.				
		3GB1	3GB2	4GB1	4GB2	4GB3
Code	Content					
B Solenoid position						
1	2-position single			●	●	●
2	2-position double			●	●	●
3	3-position all ports closed			●	●	●
4	3-position ABR connection			●	●	●
5	3-position PAB connection			●	●	●
66	Dual 3-port valve integrated *1	A side valve: Normally closed	●	●		
		B side valve: Normally closed				
67	Dual 3-port valve integrated *1	A side valve: Normally closed	●	●		
		B side valve: Normally open				
76	Dual 3-port valve integrated *1	A side valve: Normally open	●	●		
		B side valve: Normally closed				
77	Dual 3-port valve integrated *1	A side valve: Normally open	●	●		
		B side valve: Normally open				
C Port size						
Port	4 (A)/2 (B) port	P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8				
06	Rc1/8	(2)	(2)			
08	Rc1/4		(3)		(3)	
10	Rc3/8					(4)
Port	4 (A)/2 (B) port	P/R1/R2 port (5)=1/8NPT (6)=1/4NPT (7)=3/8NPT				
06N	1/8NPT (*2)	(5)	(5)			
08N	1/4NPT (*2)		(6)		(6)	
10N	3/8NPT (*2)					(7)
Port	4 (A)/2 (B) port	P/R1/R2 port (8)=G1/8 (9)=G1/4				
06G	G1/8 (*2)	(8)	(8)			
08G	G1/4 (*2)		(9)		(9)	
10G	G3/8 (*2)					(10)
00	Discrete valve for mounting base	●	●	●	●	●
D Electrical connections						
Blank	Grommet lead wire (300 mm) (*8)	●	●	●	●	●
B	DIN terminal box (Pg 7) With surge suppressor/lamp (*9) (*11)		●		●	●
BN	DIN terminal box (Pg7) (no terminal box) With surge suppressor (*9) (*11)		●		●	●
E-connector (upward/lateral common)						
E0	Lead wire (300 mm) (*10)	●	●	●	●	●
E00	Lead wire (500 mm) (*10)	●	●	●	●	●
E01	Lead wire (1000 mm) (*10)	●	●	●	●	●
E02	Lead wire (2000 mm) (*10)	●	●	●	●	●
E03	Lead wire (3000 mm) (*10)	●	●	●	●	●
E0N	No lead wire (without socket)(*10)	●	●	●	●	●
E1	No lead wire (socket/terminal attached)(*10)	●	●	●	●	●
E2	Lead wire (300 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E20	Lead wire (500 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E21	Lead wire (1000 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E22	Lead wire (2000 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E23	Lead wire (3000 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E2N	No lead wire (without socket) with surge suppressor and indicator lamp	●	●	●	●	●
E3	No lead wire (socket/terminal attached) with surge suppressor/indicator lamp	●	●	●	●	●
EJ-connector (socket with cover, upward/lateral common)						
E01J	Lead wire (1000 mm) (*10)	●	●	●	●	●
E02J	Lead wire (2000 mm) (*10)	●	●	●	●	●
E03J	Lead wire (3000 mm) (*10)	●	●	●	●	●
E21J	Lead wire (1000 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E22J	Lead wire (2000 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E23J	Lead wire (3000 mm) with surge suppressor and indicator lamp	●	●	●	●	●
E Option						
Blank	Non-locking and locking model shared manual override	●	●	●	●	●
M	Non-locking manual override	●	●	●	●	●
H	With exhaust check valve (*3)	●	●	●	●	●
K	External pilot			●	●	●
A	Ozone/cutting oil proof	●	●	●	●	●
S	Surgeless (*4)	●	●	●	●	●
E	Low exoergic/energy-saving circuit (*4), (*5)	●	●	●	●	●
F	A/B port filter integrated (*6)	●	●	●	●	●
F Voltage						
1	100 VAC (with rectifier circuit)	●	●	●	●	●
2	200 VAC (with rectifier circuit) (*7)			●	●	●
3	24 VDC	●	●	●	●	●
4	12 VDC	●	●	●	●	●
7	3 VDC	○	○	○	○	○
8	5 VDC	○	○	○	○	○
G Clean room specifications (*12, 13, 14)						
	Structure	Material restriction				
P70	Exhaust treatment	-	●	●	●	●
P74	Exhaust treatment	Copper-/silicon-/halogen-based materials (fluorine, chlorine, bromine) are prohibited.	○	○	○	○

is not available.

○ Custom order products. Contact CKD for details.

# 3GB1, 2/4GB1, 2, 3 Series

Discrete valve; base piping

Electrical connections	
Discrete valve/ individual wiring manifold	
<b>Blank</b> Grommet lead wire	<b>E1</b> <b>E3</b> E connector with socket/terminal
<p>● Lead wire length 300 mm</p> 	
<b>E0</b> <b>E2</b> E connector	<b>B</b> DIN terminal box
<p>● Lead wire length 300 mm 500 mm 1000 mm 2000 mm 3000 mm</p> 	
<b>E0N</b> <b>E2N</b> E connector without socket	<b>BN</b> DIN terminal box (no terminal box)
	
<b>E0*J</b> <b>E2*J</b> EJ connector	
<p>● Lead wire length 1 m 2 m 3 m</p> 	

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

**MN3E**  
**MN4E**

**4GA/B**

**M4GA/B**

**MN4GA/B**

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

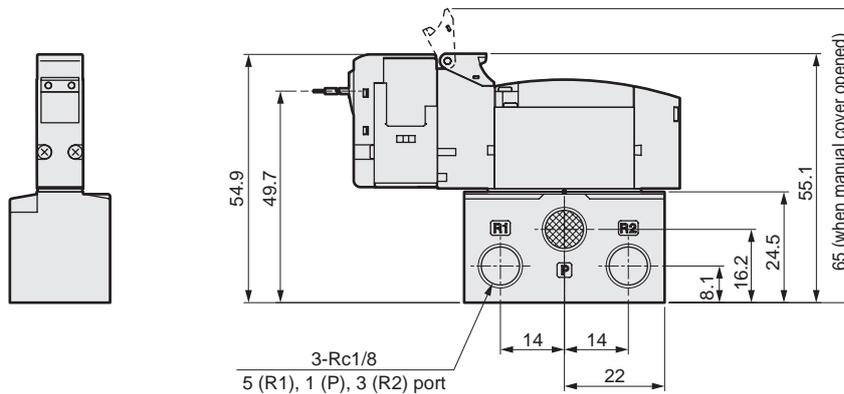
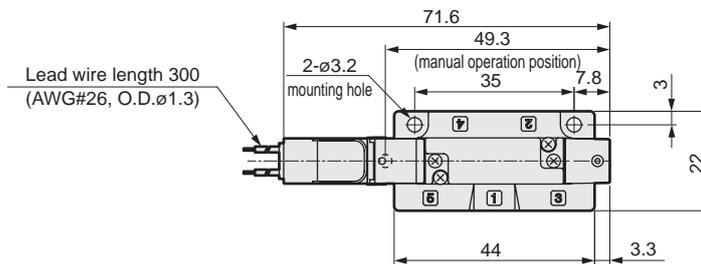
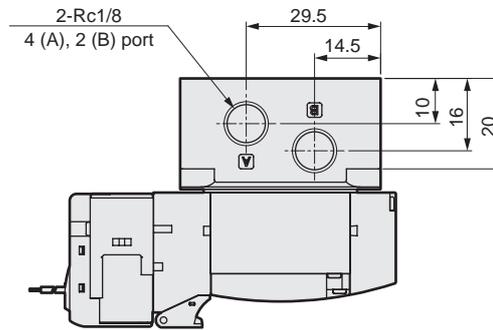
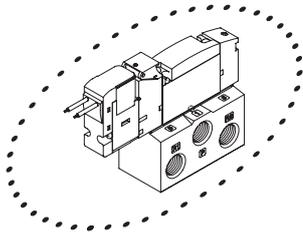
# 4GB1 Series

Discrete valve; base piping

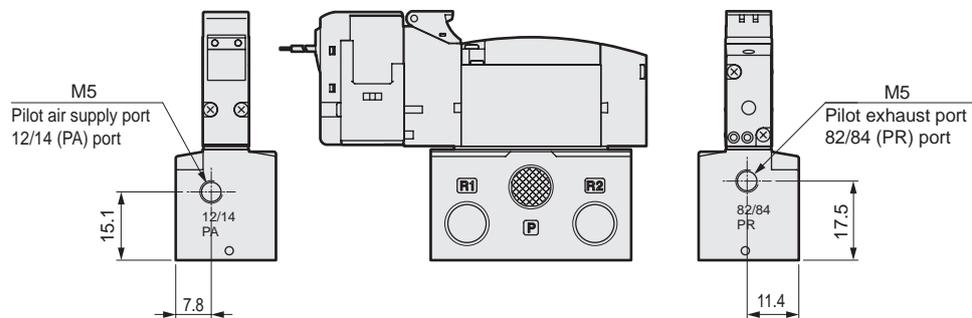
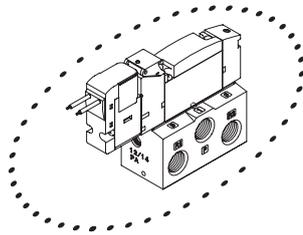
## Dimensions

**4GB110R-P7\*** \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

● 2-position single grommet lead wire (blank)

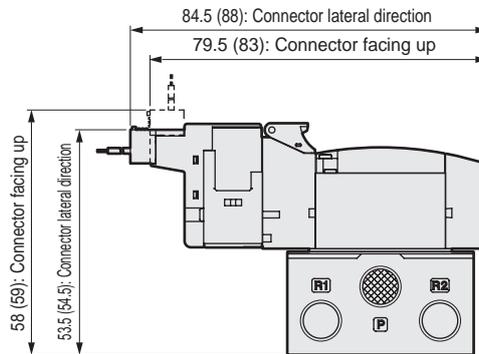
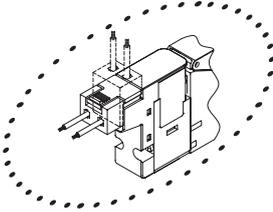


● External pilot (K)



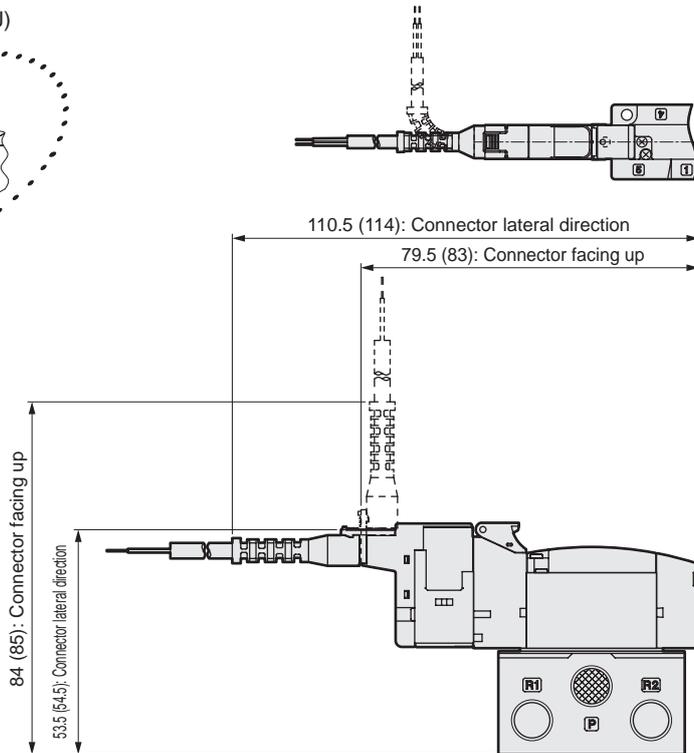
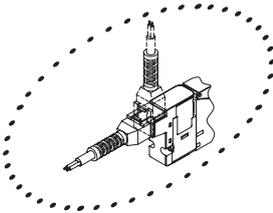
## Dimensions

### ● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# 4GB1 Series

Discrete valve; base piping

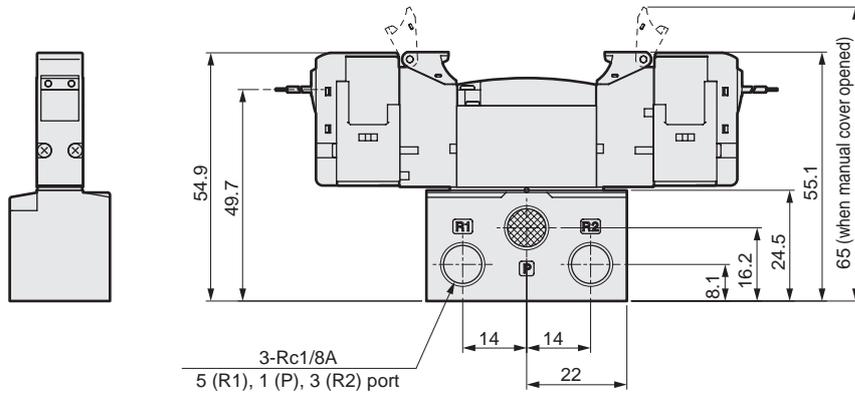
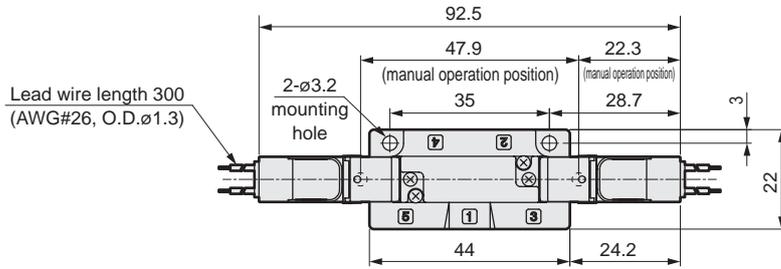
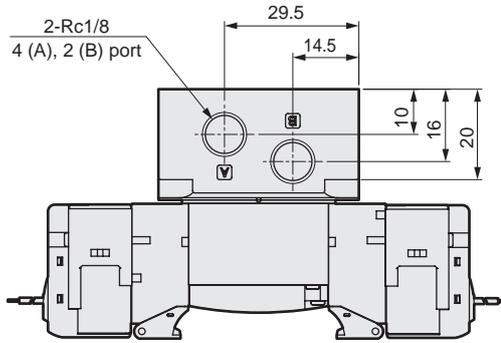
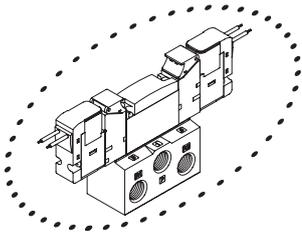
## Dimensions



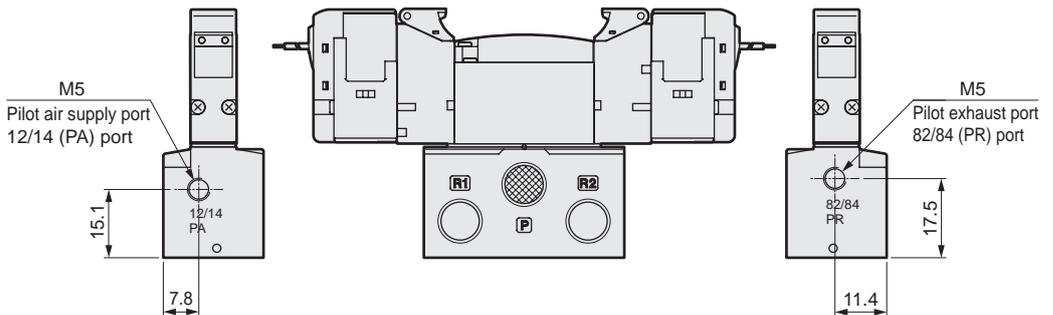
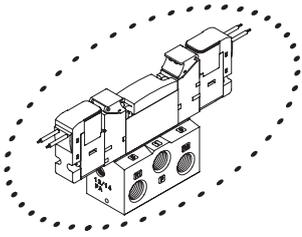
- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E  
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R (module unit)
- Clean F.R
- Precision R
- Press gauge  
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

**4GB120R-P7\*** \* For the NPT thread and G thread specifications, refer to pages 494 to 503.  
 ● 2-position double grommet lead wire (blank)

**3GB1660R/3GB1670R/3GB1760R/3GB1770R-P7\***  
 ● Dual 3-port valve integrated grommet lead wire (blank)



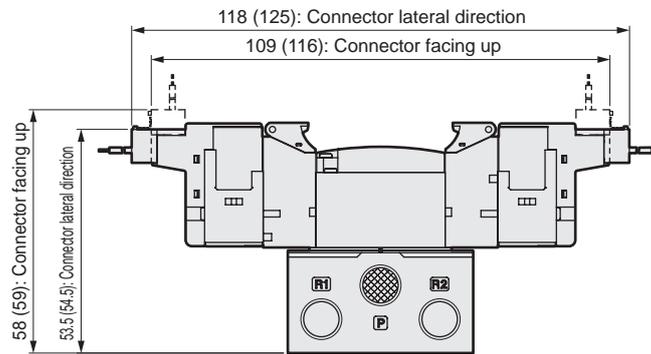
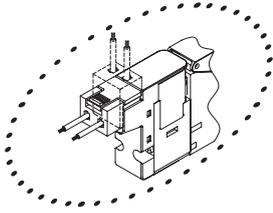
● External pilot (K)



Note: Combination of dual 3-port valve integrated and external pilot is not available.

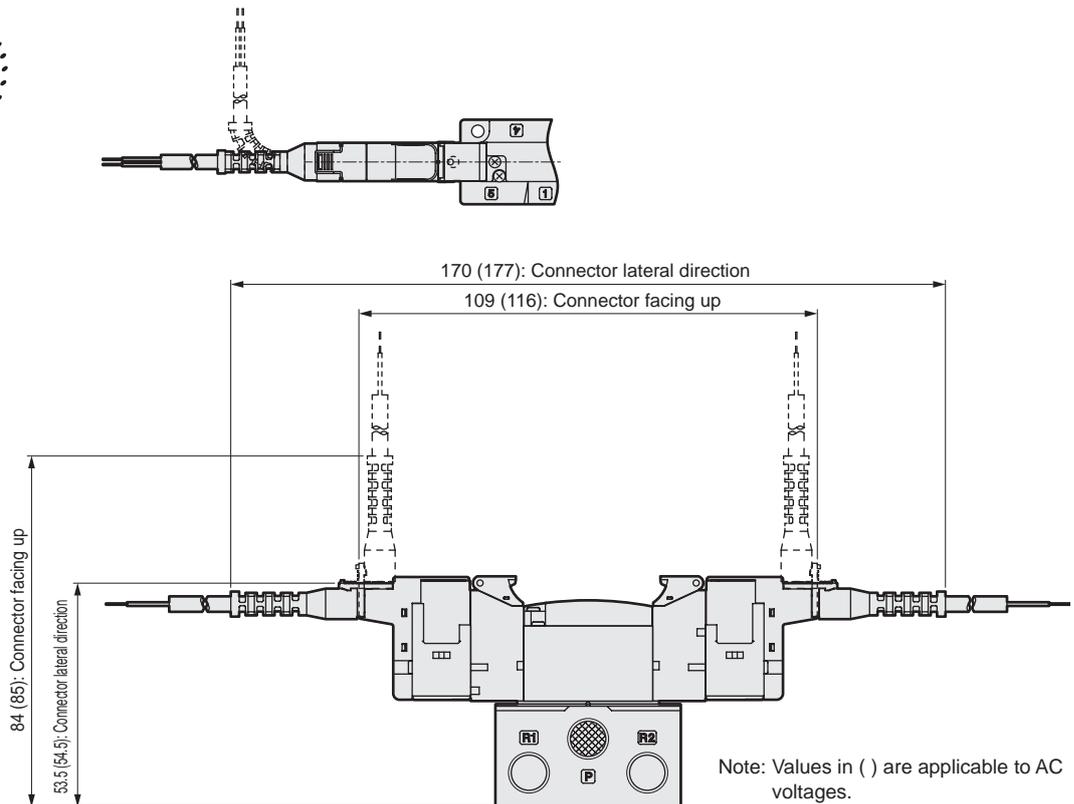
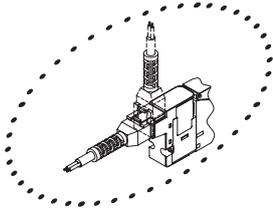
## Dimensions

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# 4GB1 Series

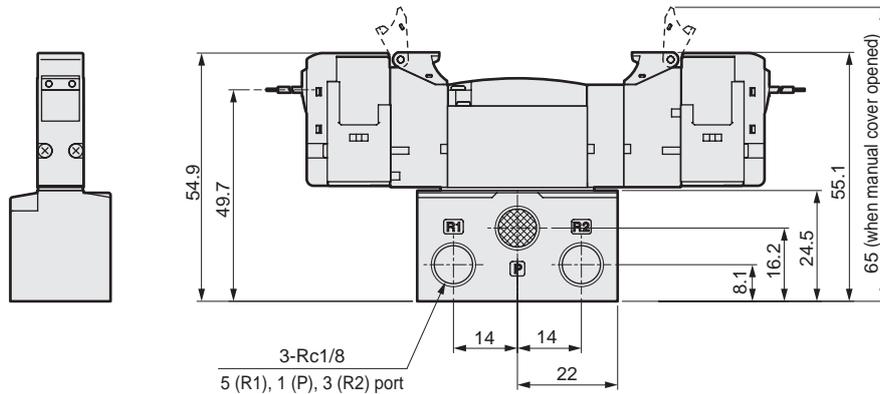
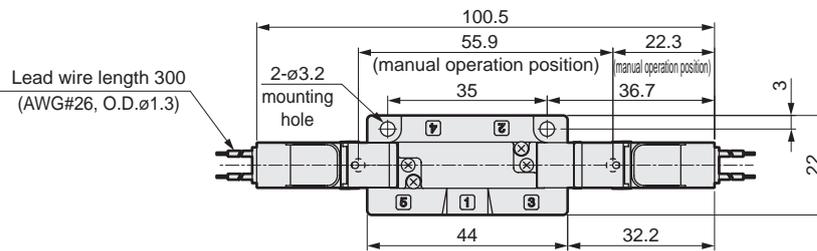
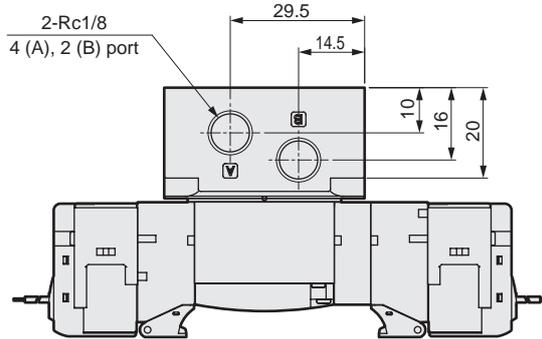
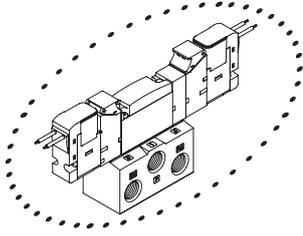
Discrete valve; base piping

## Dimensions

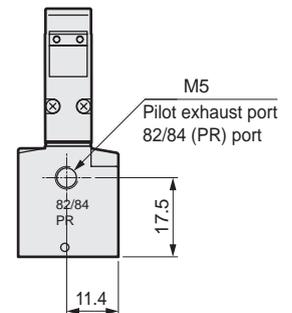
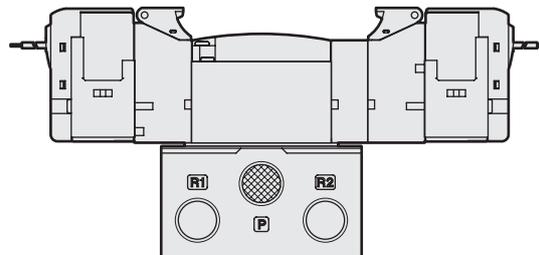
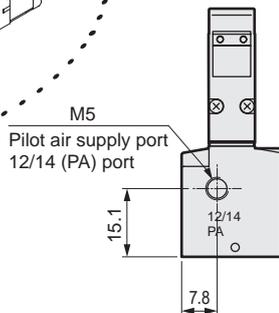
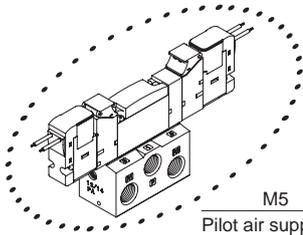


4GB1<sup>0.4-3</sup>0R-P7\* \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

● 3 position grommet lead wire (blank)

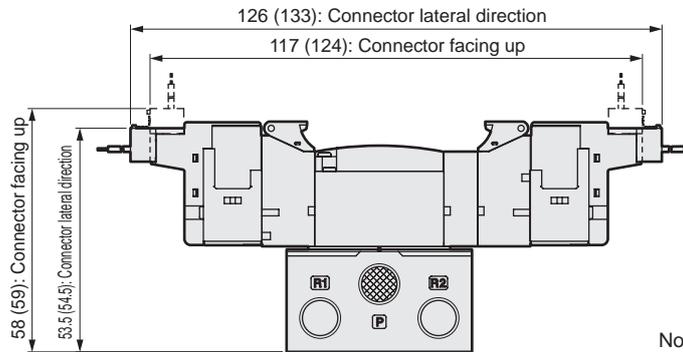
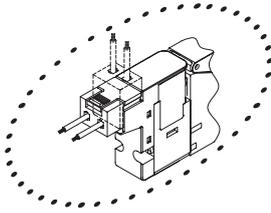


● External pilot (K)



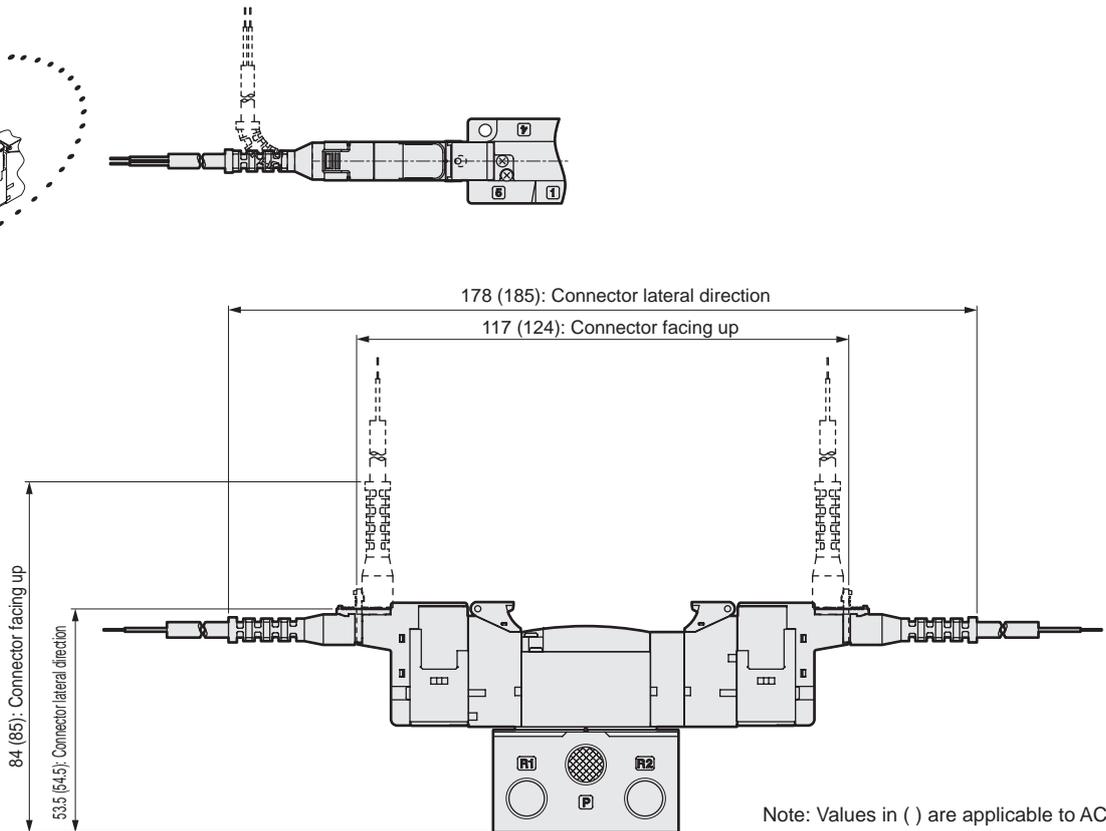
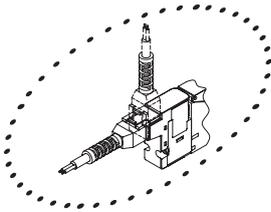
## Dimensions

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# 4GB2 Series

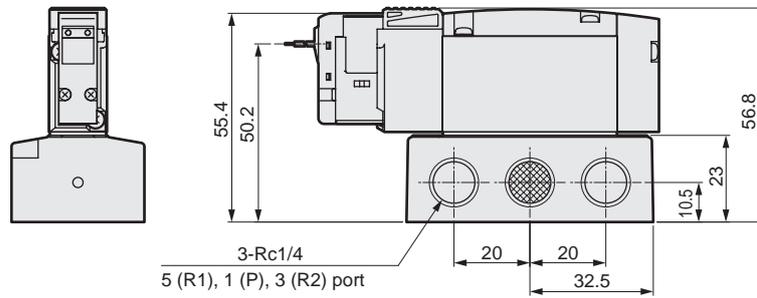
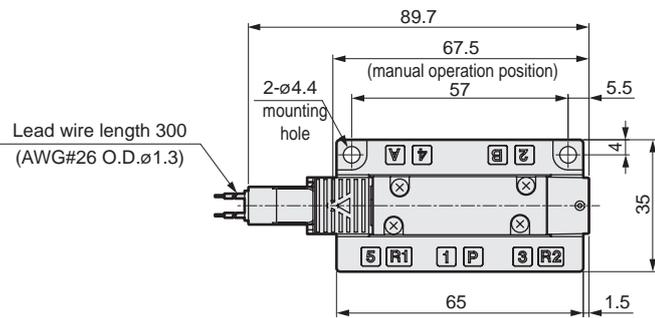
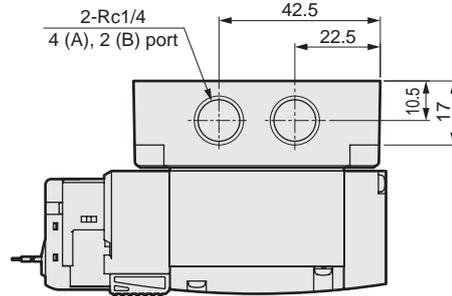
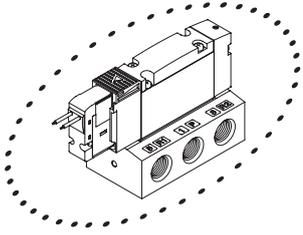
Discrete valve; base piping

## Dimensions

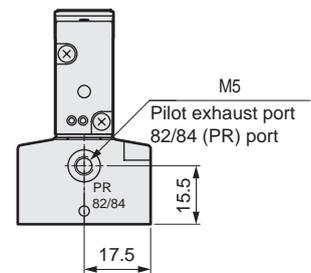
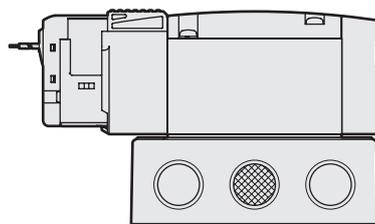
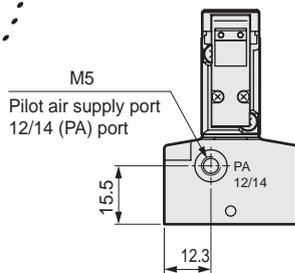
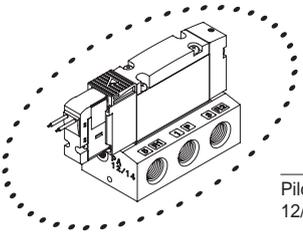


4GB210R-P7\* \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

● 2-position single grommet lead wire (blank)

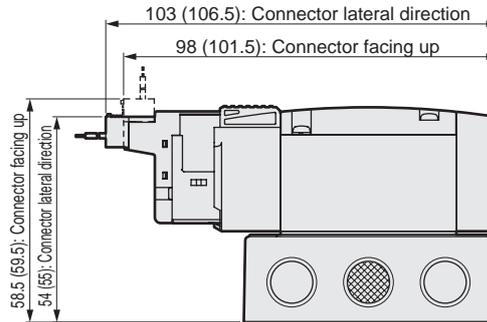
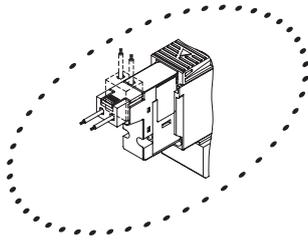


● External pilot (K)



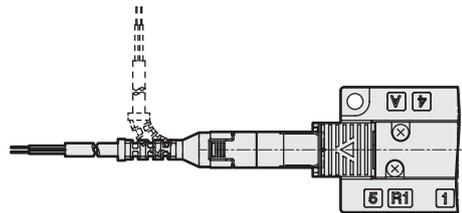
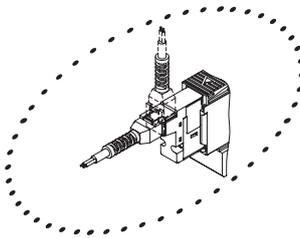
### Dimensions

#### ● E connector (E)

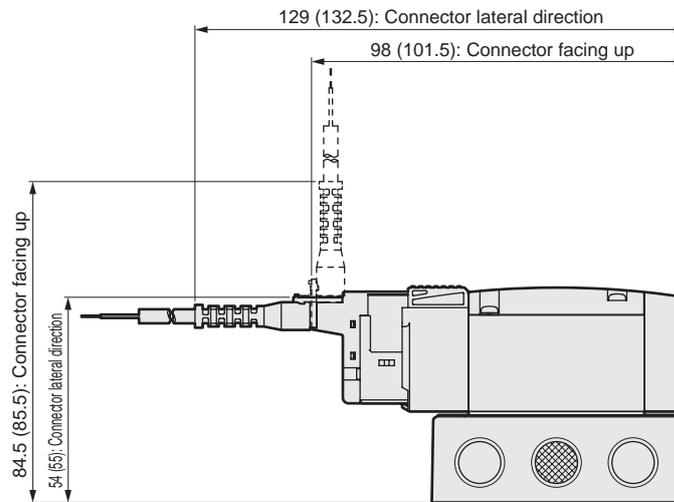


Note: Values in ( ) are applicable to AC voltages.

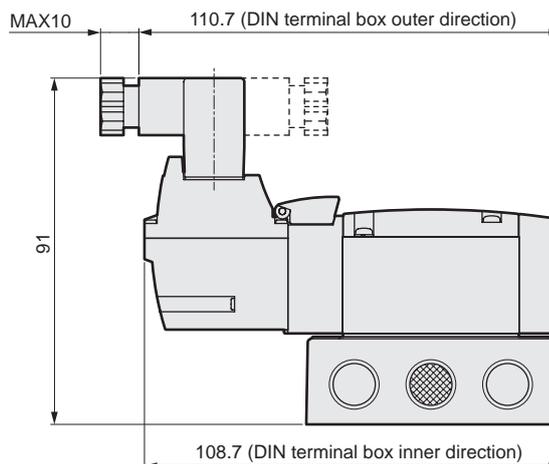
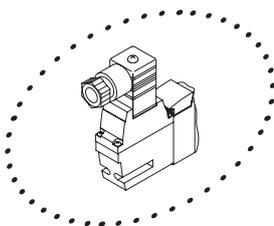
#### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.



#### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# 4GB2 Series

Discrete valve; base piping

## Dimensions



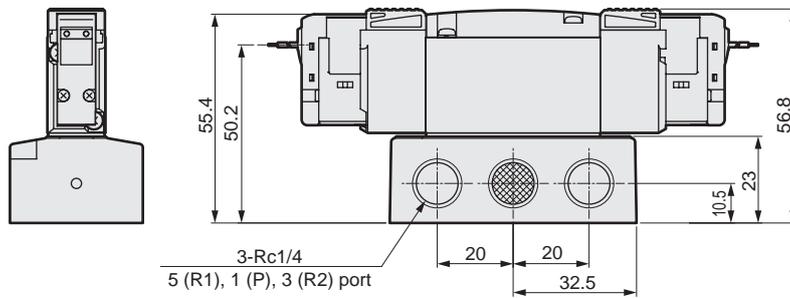
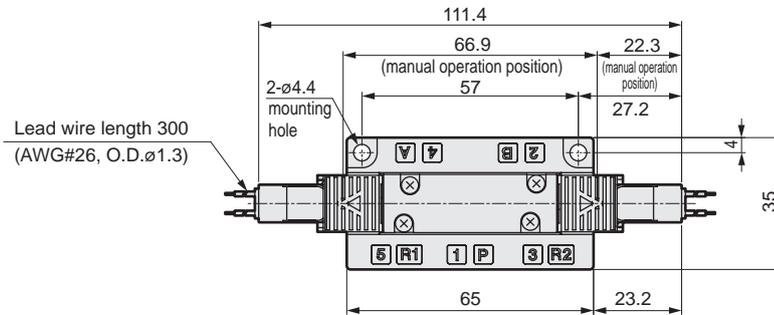
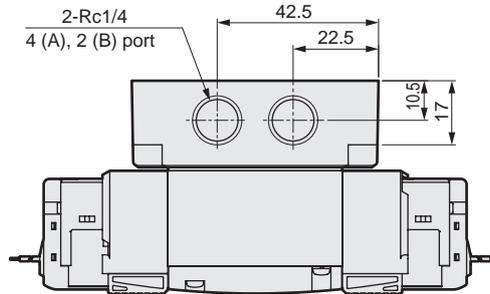
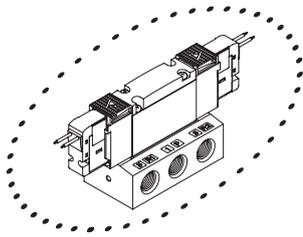
- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E  
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R (module unit)
- Clean F.R
- Precision R
- Press gauge  
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

4GB220R-P7\* \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

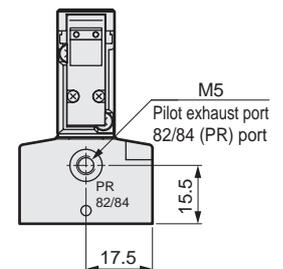
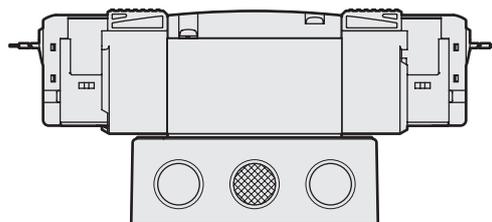
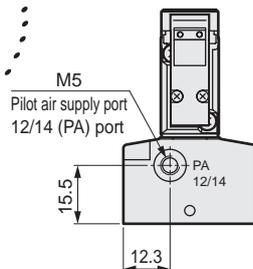
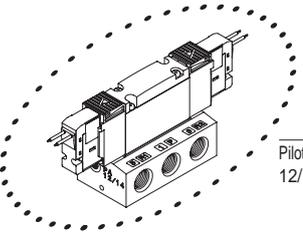
- 2-position double grommet lead wire (blank)

3GB2660R/3GB2670R/3GB2760R/3GB2770R-P7\*

- Dual 3-port valve integrated grommet lead wire (blank)



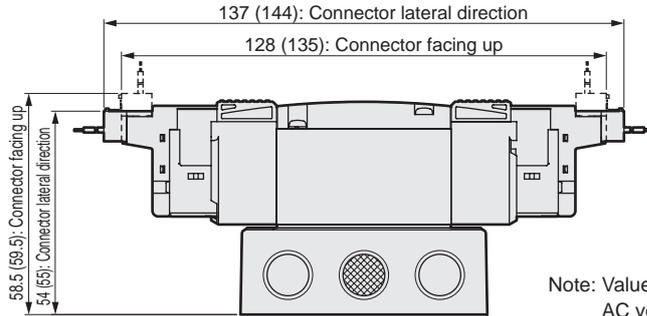
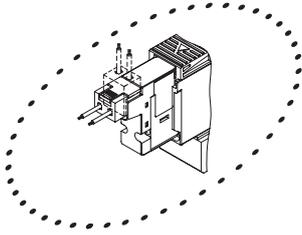
- External pilot (K)



Note: Combination of dual 3-port valve integrated and external pilot is not available.

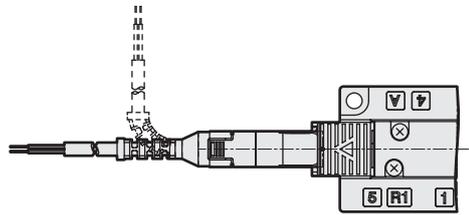
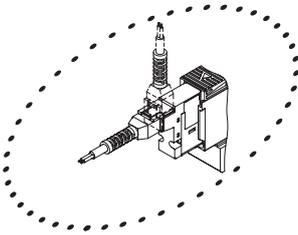
## Dimensions

### ● E connector (E)

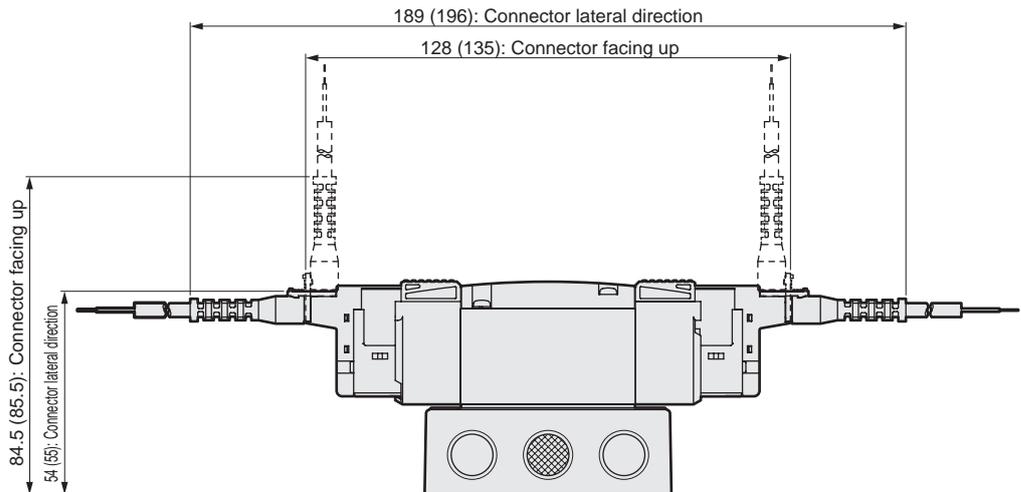


Note: Values in ( ) are applicable to AC voltages.

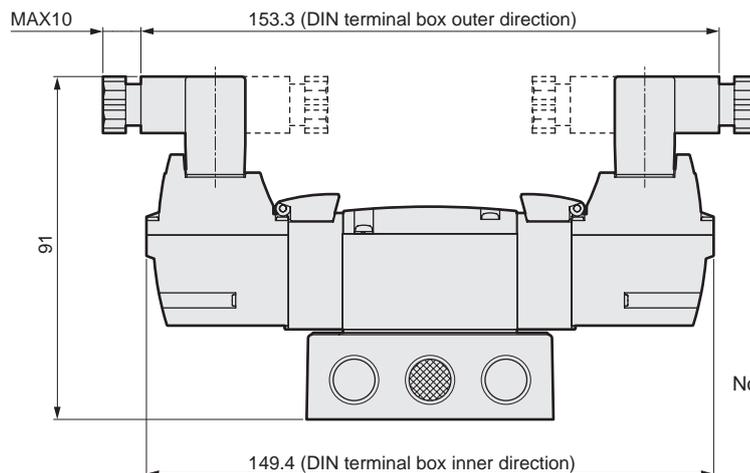
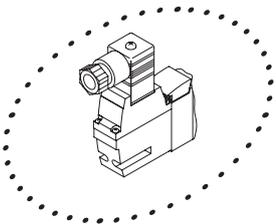
### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.



### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GB2 Series

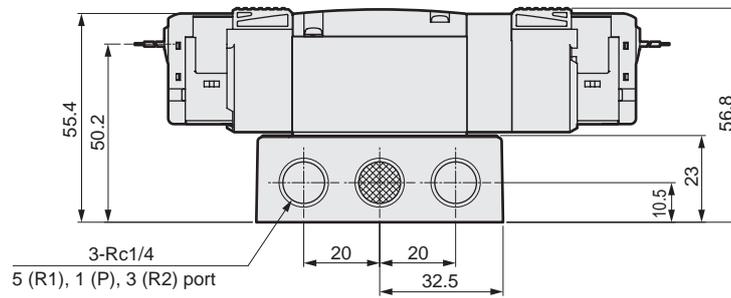
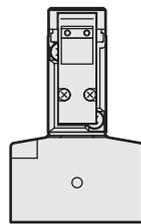
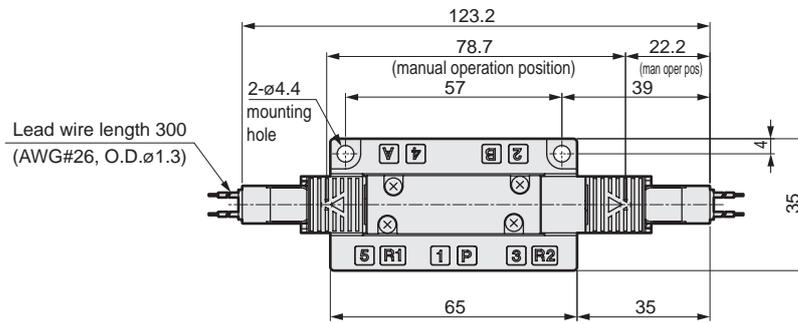
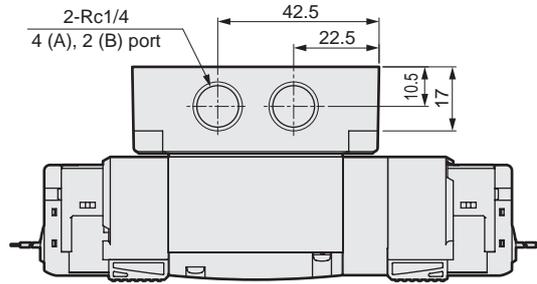
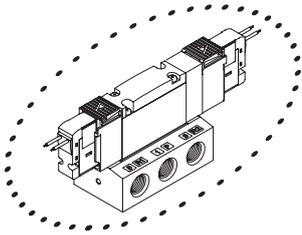
Discrete valve; base piping

## Dimensions

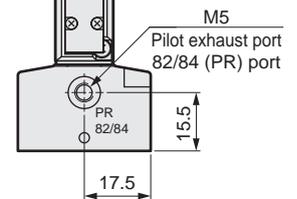
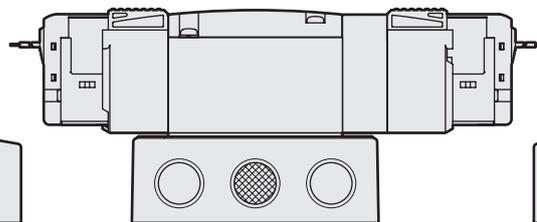
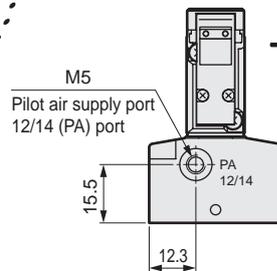
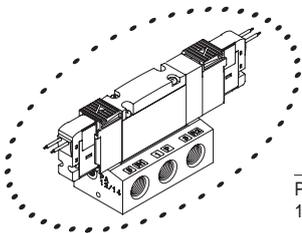


4GB2<sup>5 4 3</sup>0R-P7\* \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

● 3 position grommet lead wire (blank)

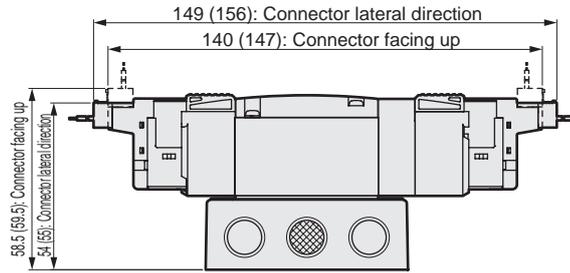
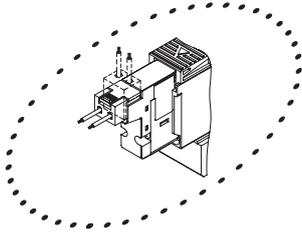


● External pilot (K)



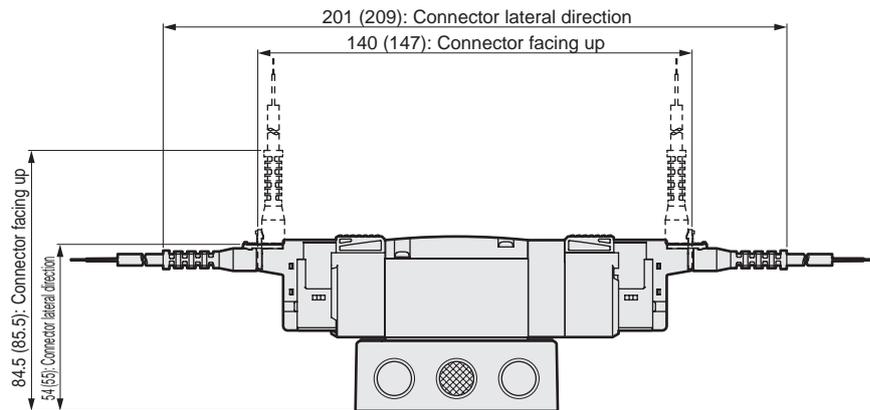
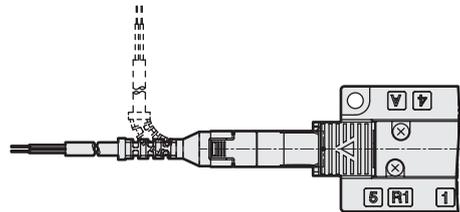
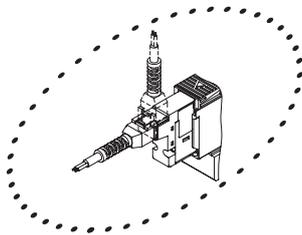
## Dimensions

### ● E connector (E)



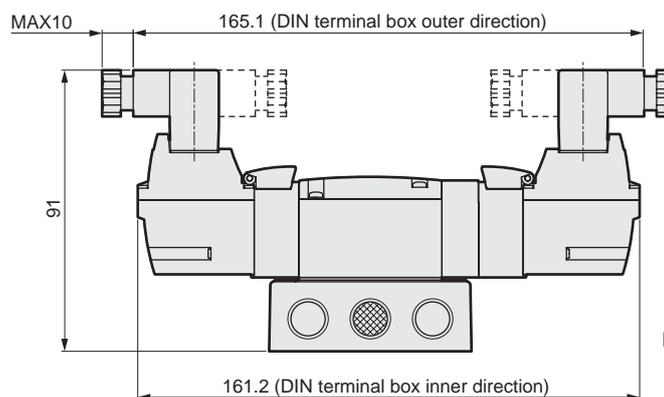
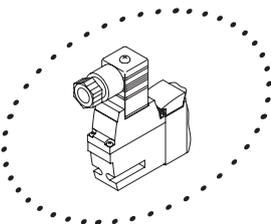
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GB3 Series

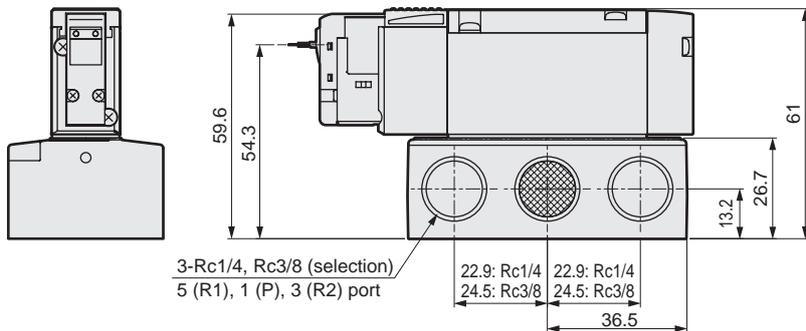
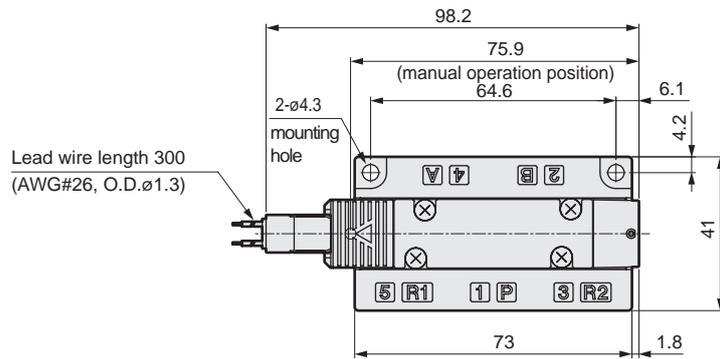
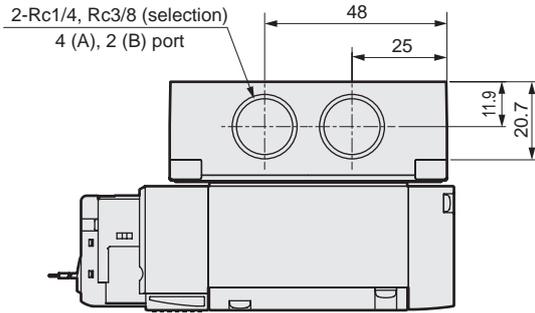
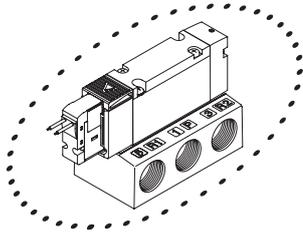
Discrete valve; base piping

## Dimensions

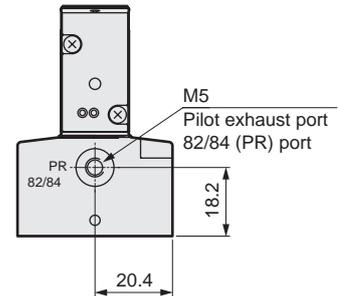
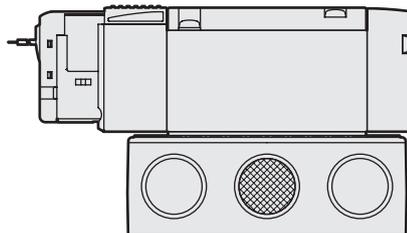
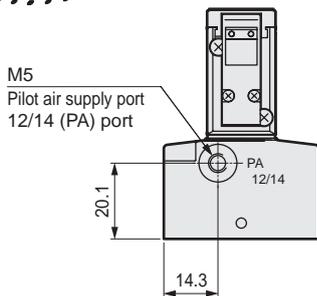
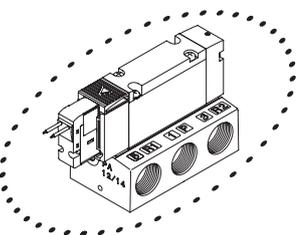


4GB310R-P7\* \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

● 2-position single grommet lead wire (blank)

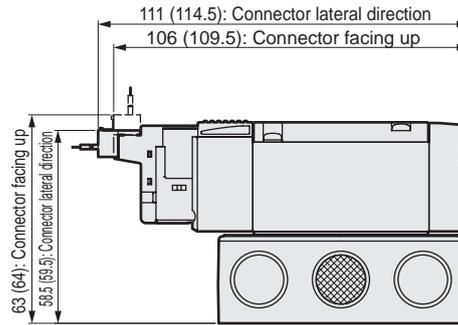
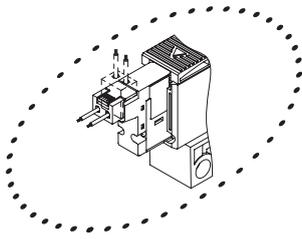


● External pilot (K)



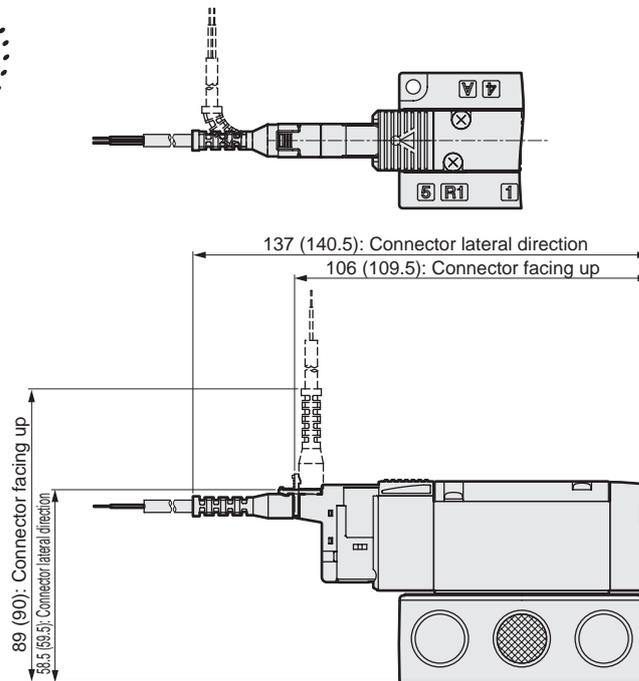
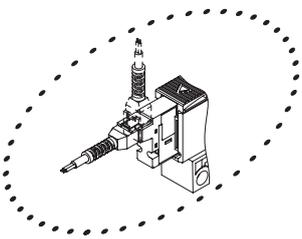
## Dimensions

● E connector (E)



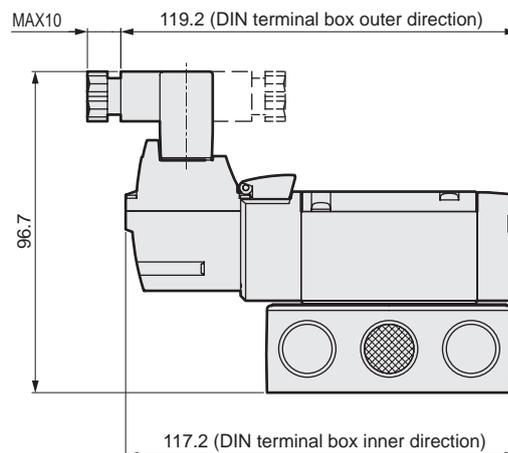
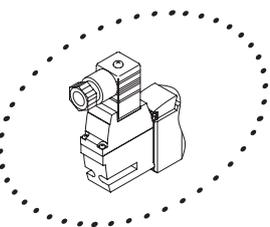
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
 MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
 Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GB3 Series

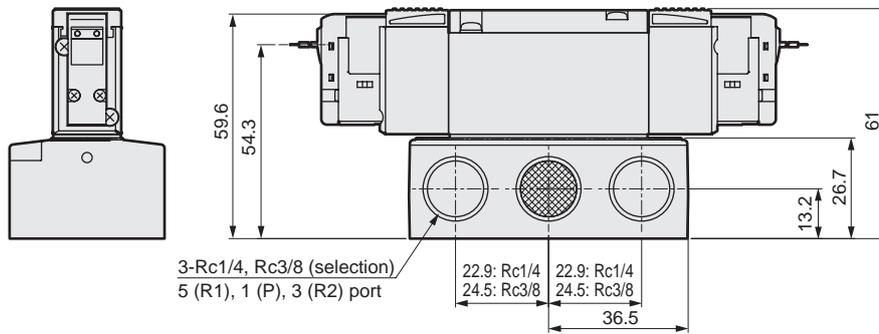
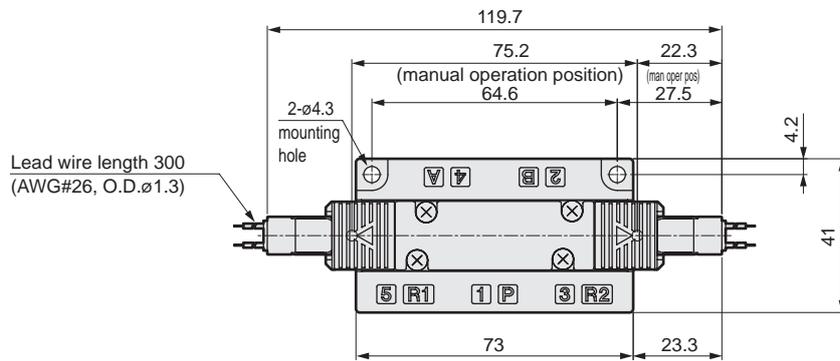
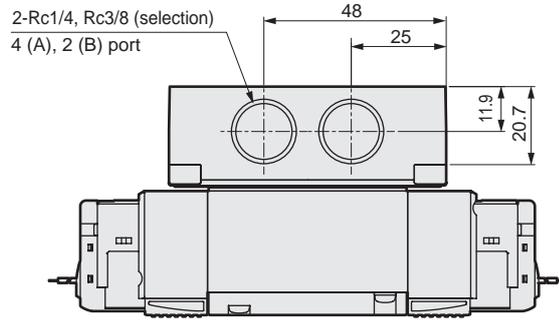
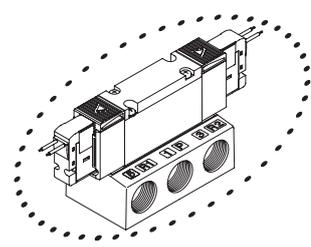
Discrete valve; base piping

## Dimensions

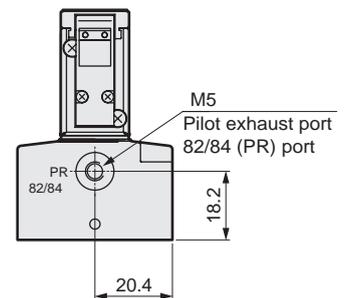
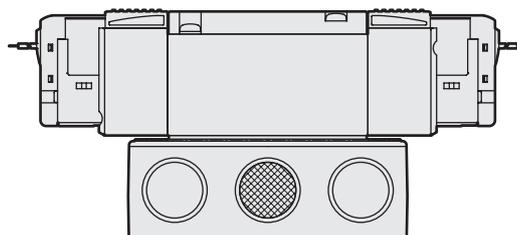
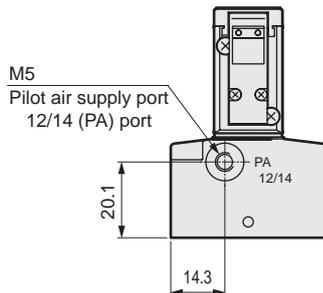
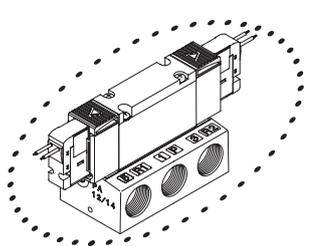


4GB320R-P7\* \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

● 2-position double grommet lead wire (blank)

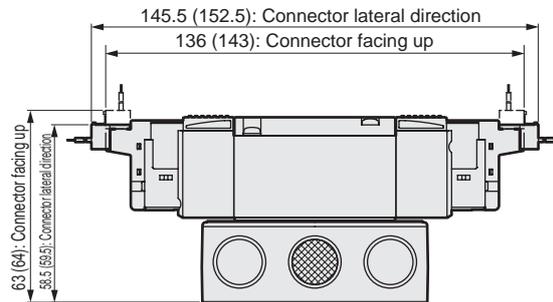
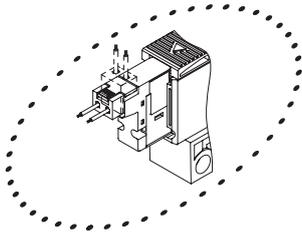


● External pilot (K)



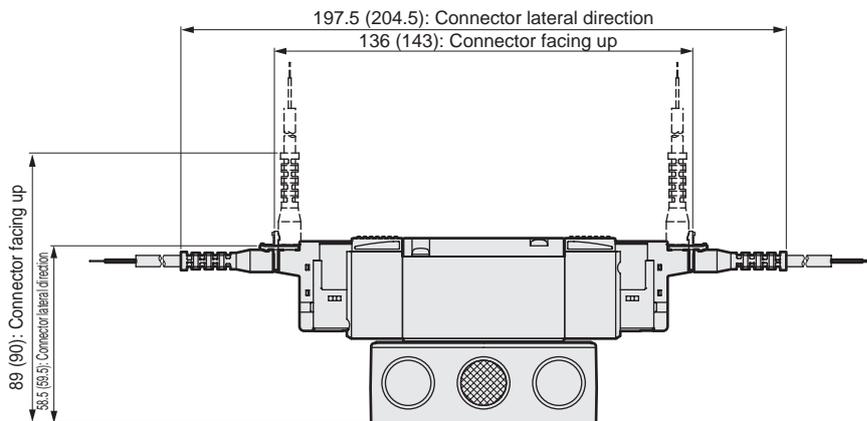
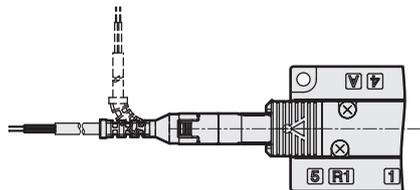
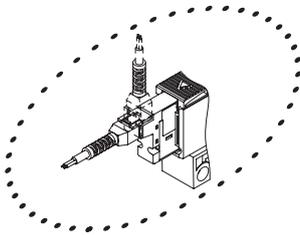
## Dimensions

### ● E connector (E)



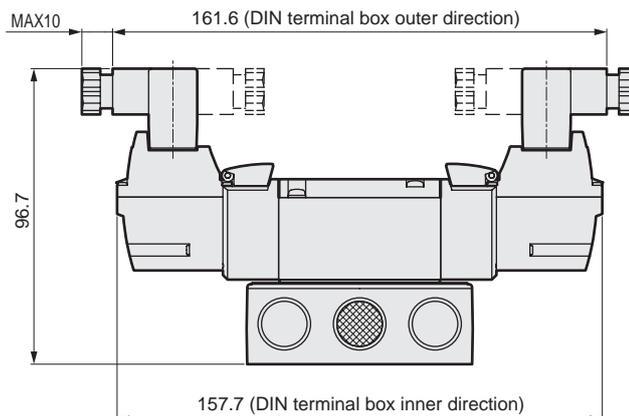
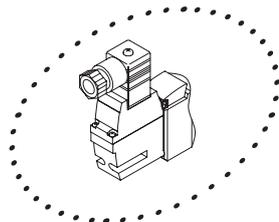
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# 4GB3 Series

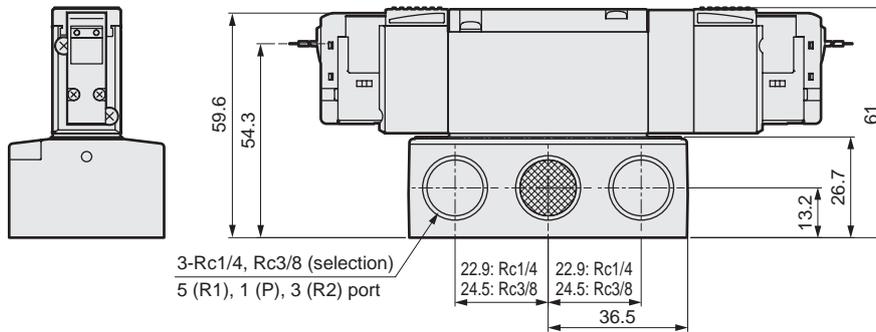
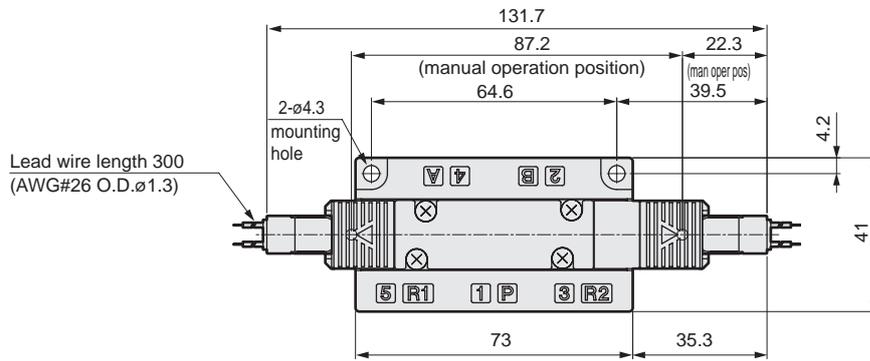
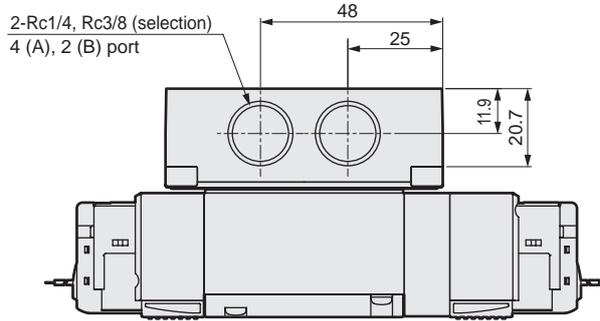
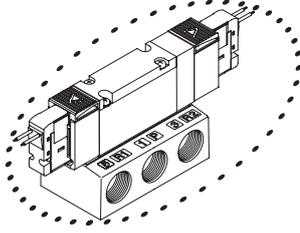
Discrete valve; base piping

## Dimensions

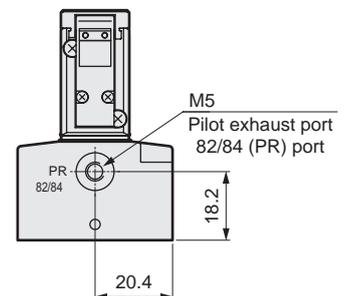
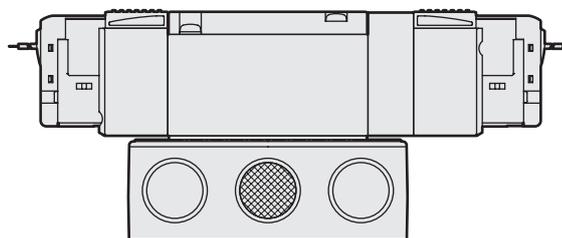
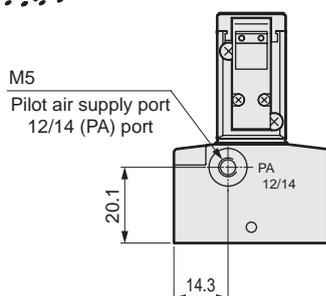
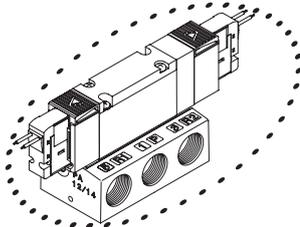


4GB3<sup>3</sup><sub>4</sub><sup>3</sup>0R-P7\* \* For the NPT thread and G thread specifications, refer to pages 494 to 503.

● 3 position grommet lead wire (blank)

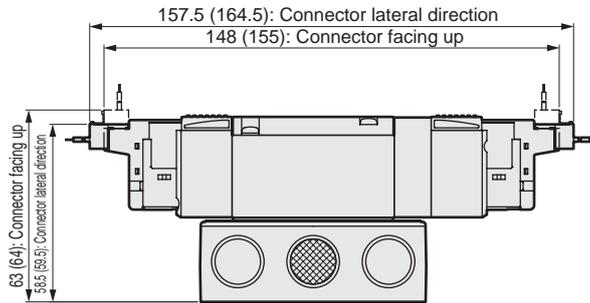
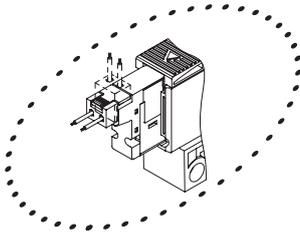


● External pilot (K)



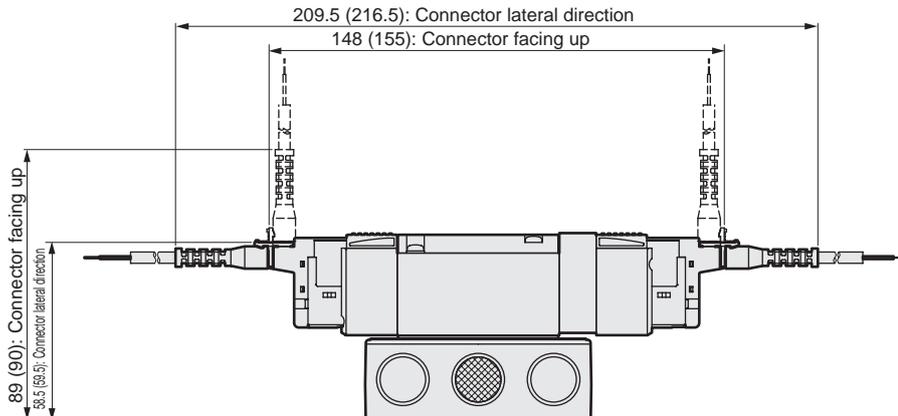
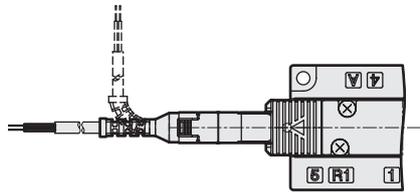
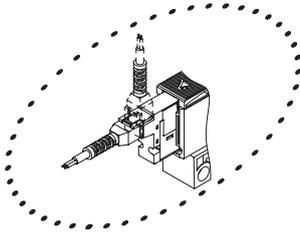
## Dimensions

### ● E connector (E)



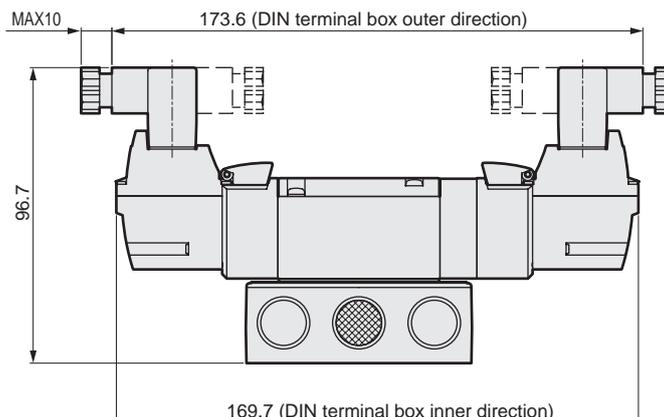
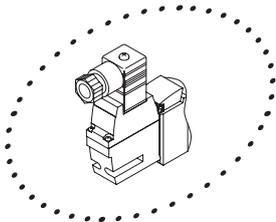
Note: Values in ( ) are applicable to AC voltages.

### ● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

### ● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

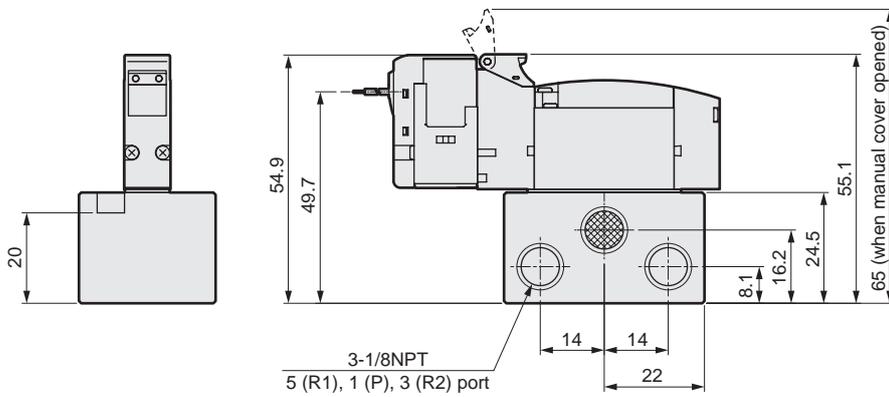
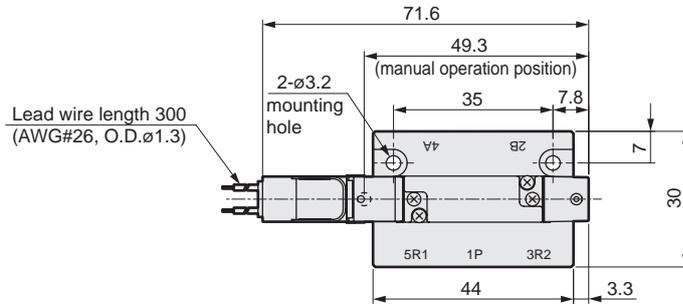
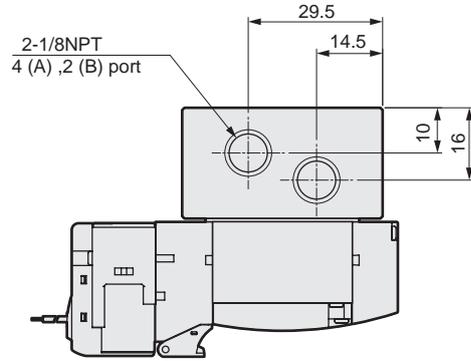
# 3GB1/4GB1 Series

Discrete valve; base piping

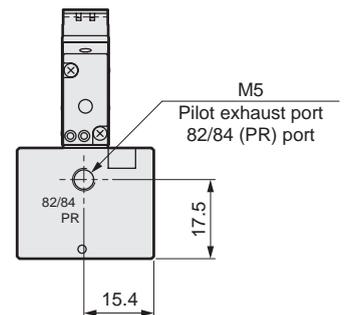
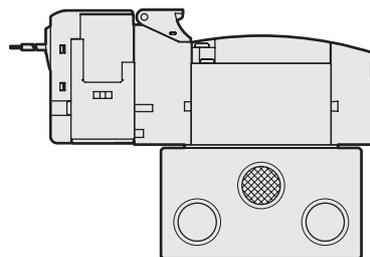
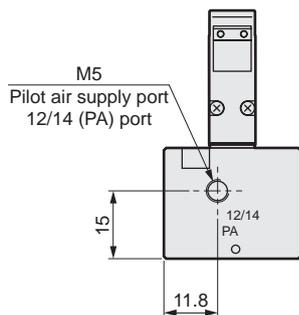
Dimensions Port size; NPT thread

3GB1<sup>66</sup><sub>67</sub><sup>76</sup><sub>77</sub> 0R-P7\*, 4GB1<sup>1</sup><sub>2</sub> 0R-P7\*

● 2-position single grommet lead wire (blank)



● External pilot (K)

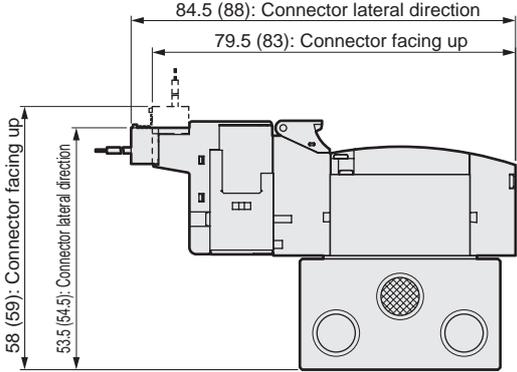


# 3GB1/4GB1 Series

Discrete valve; base piping

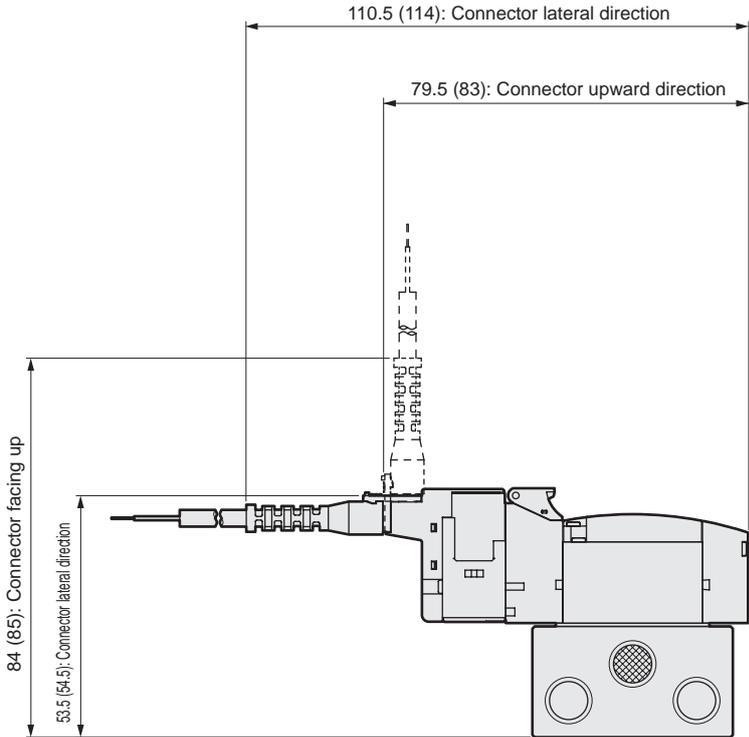
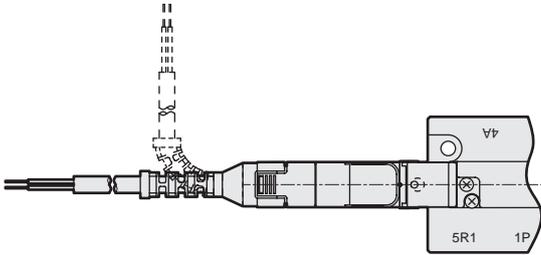
## Dimensions Port size; NPT thread

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

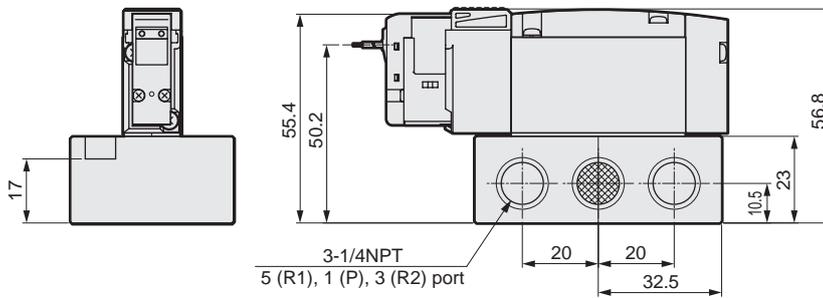
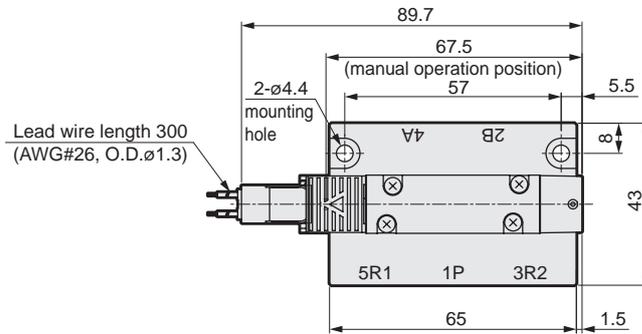
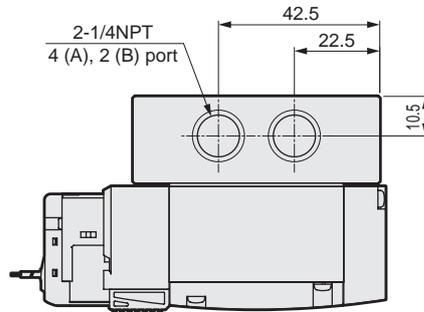
# 3GB2/4GB2 Series

Discrete valve; base piping

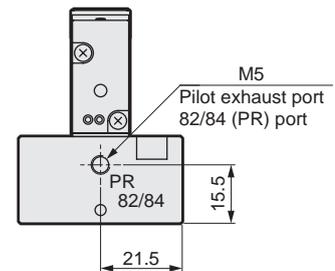
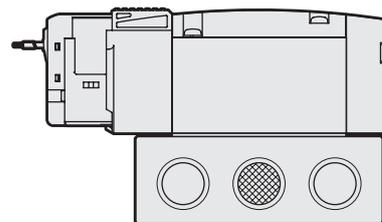
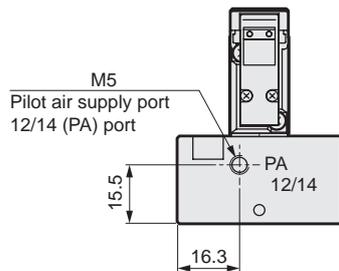
Dimensions Port size; NPT thread

3GB2<sup>66</sup><sub>67</sub><sub>76</sub><sub>77</sub>0R-P7\*, 4GB2<sup>1</sup><sub>2</sub><sub>3</sub><sub>4</sub><sub>5</sub>0R-P7\*

● 2-position single grommet lead wire (blank)



● External pilot (K)

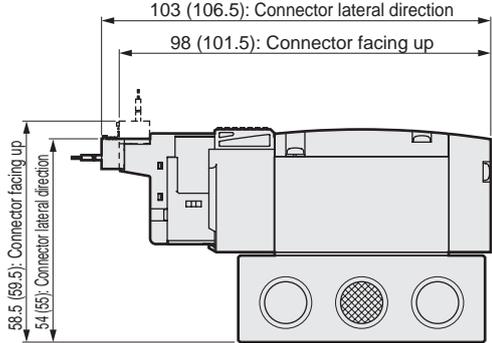


# 3GB2/4GB2 Series

Discrete valve; base piping

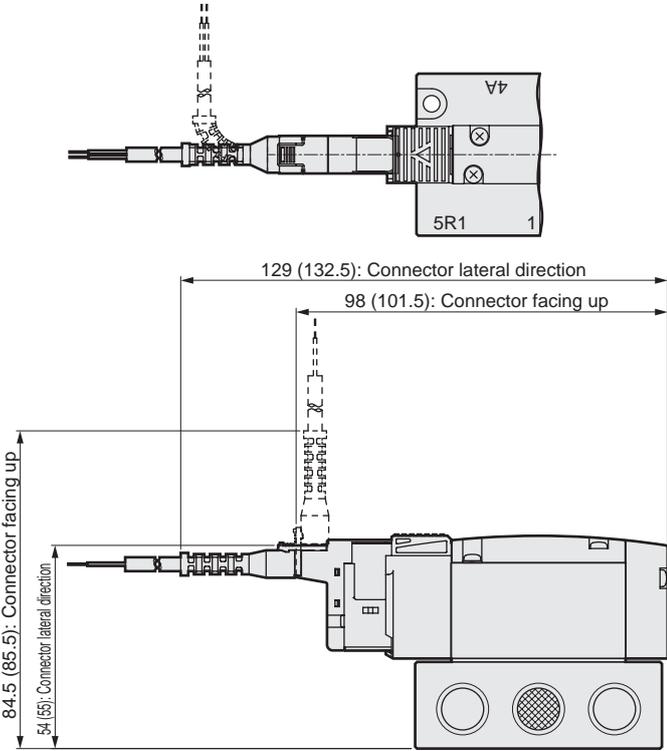
## Dimensions Port size; NPT thread

● E connector (E)



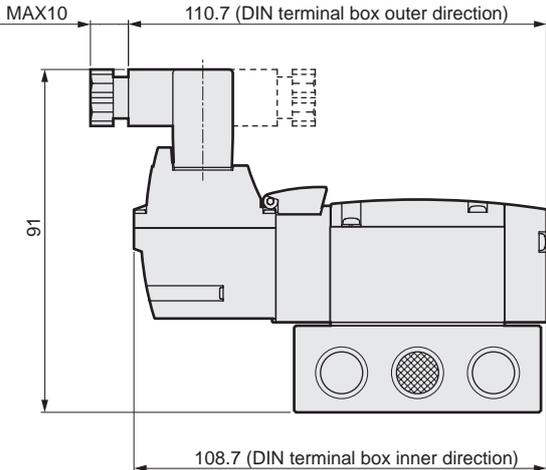
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 4GB3 Series

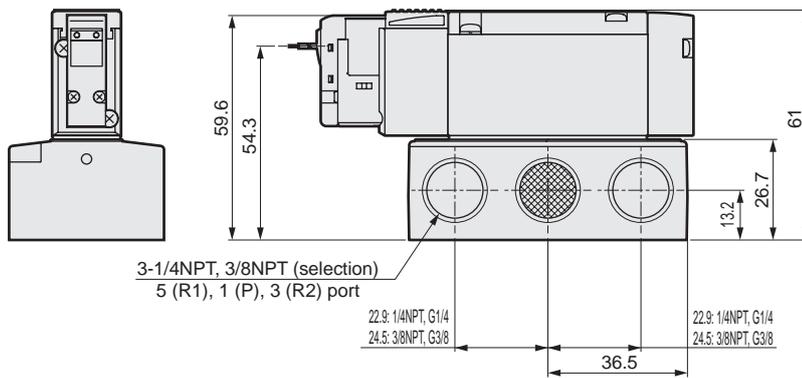
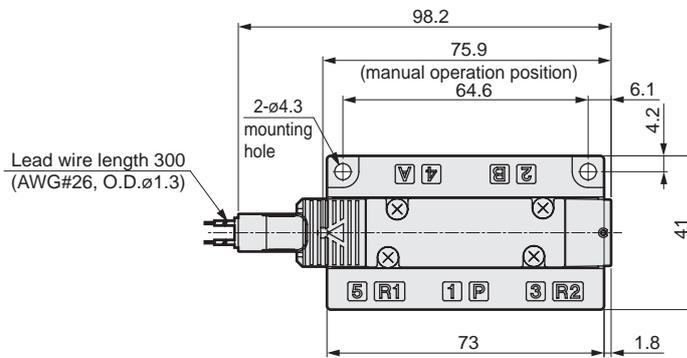
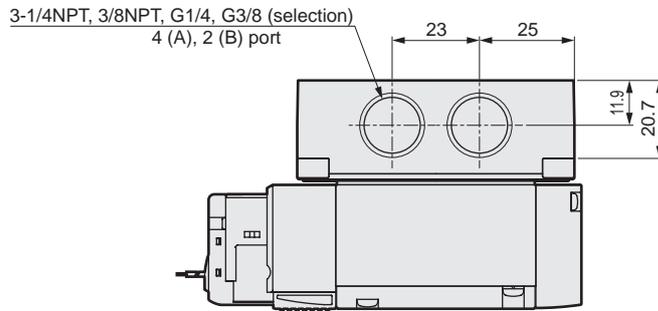
Discrete valve; base piping

Dimensions Port size; NPT thread

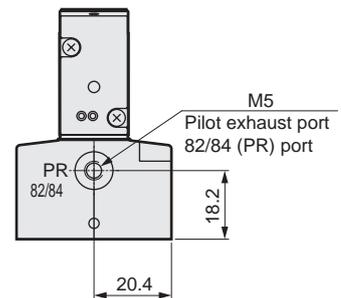
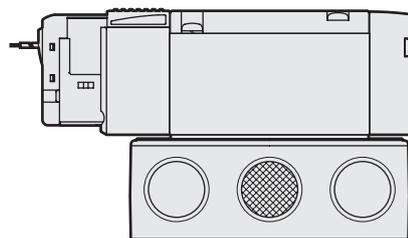
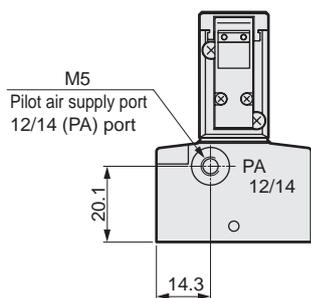
4GB3<sup>1</sup>OR-P7\*

5A, 5B

● 2-position single grommet lead wire (blank)

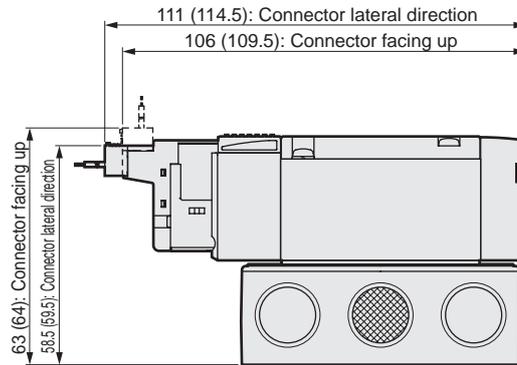


● External pilot (K)



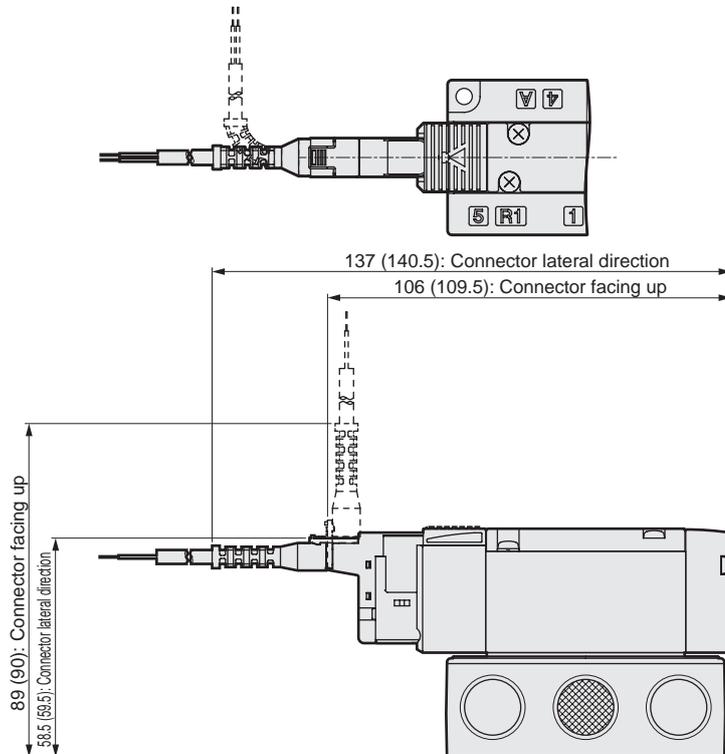
## Dimensions Port size; NPT thread

● E connector (E)



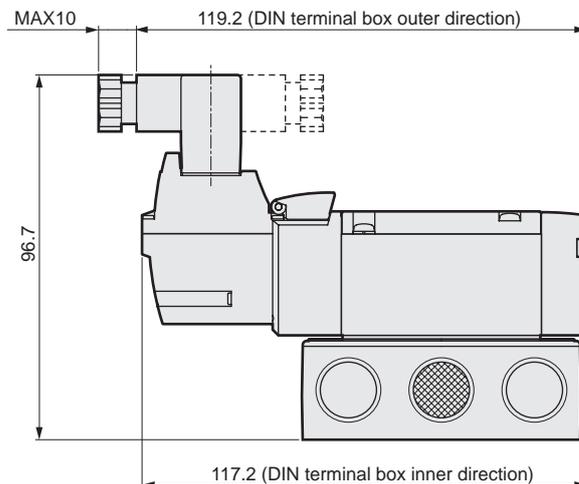
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# 3GB1/4GB1 Series

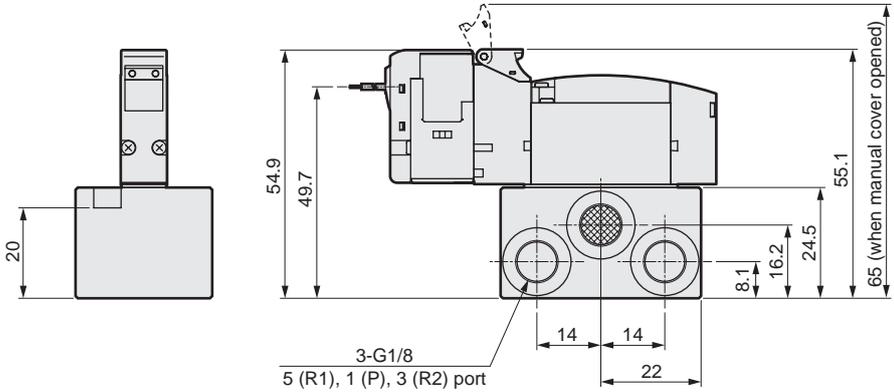
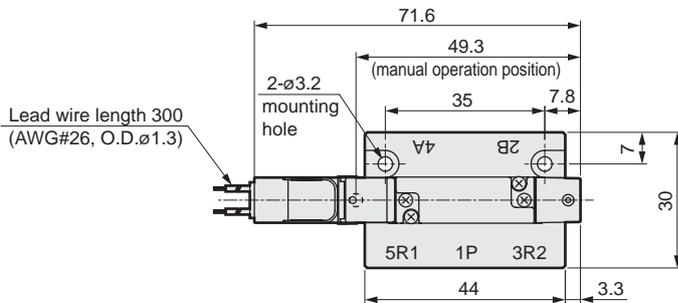
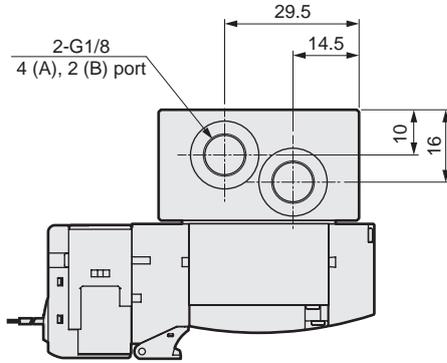
Discrete valve; base piping

Dimensions Port size; G thread

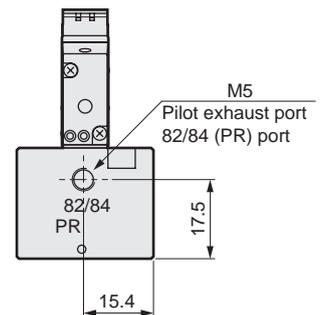
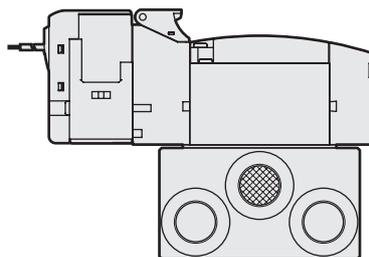
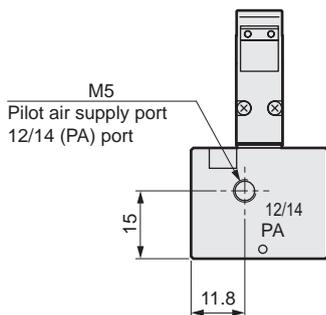
3GB1<sup>66</sup><sub>67</sub><sup>76</sup><sub>77</sub> 0R-P7\*, 4GB1<sup>11</sup><sub>12</sub><sup>21</sup><sub>22</sub> 0R-P7\*

● 2-position single grommet lead wire (blank)

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending



● External pilot (K)

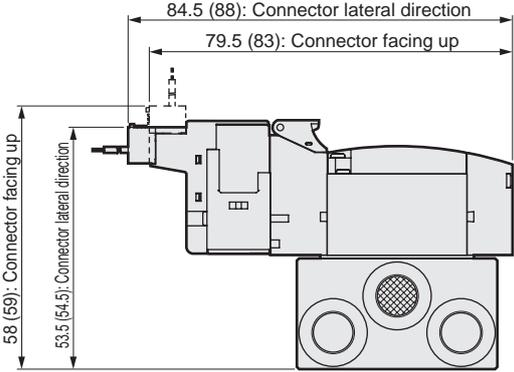


# 3GB1/4GB1 Series

Discrete valve; base piping

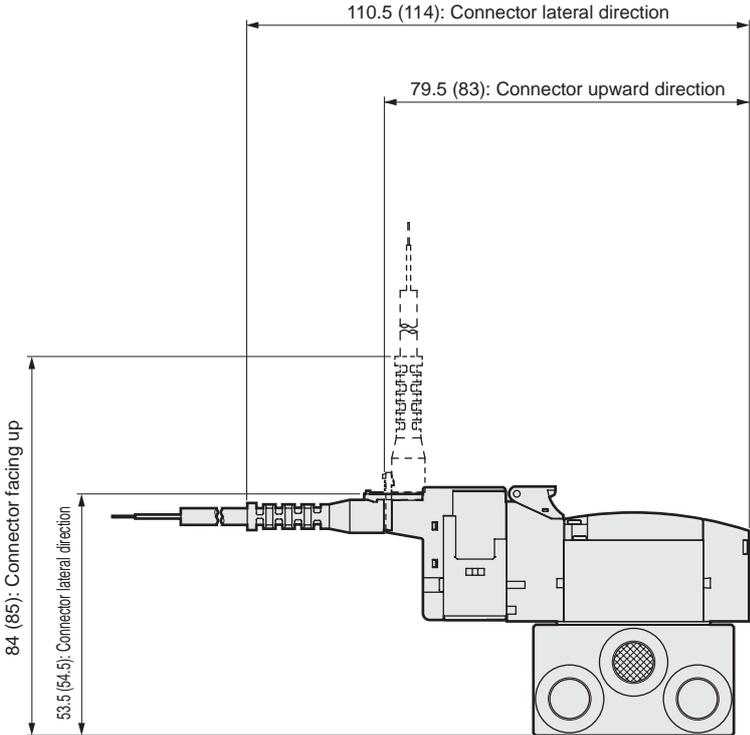
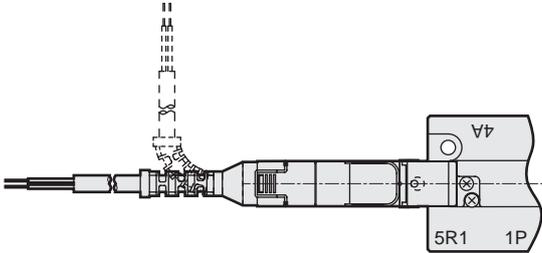
## Dimensions Port size; G thread

● E connector (E)



Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are for AC voltage.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
<b>MN3E</b>
<b>MN4E</b>
<b>4GA/B</b>
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

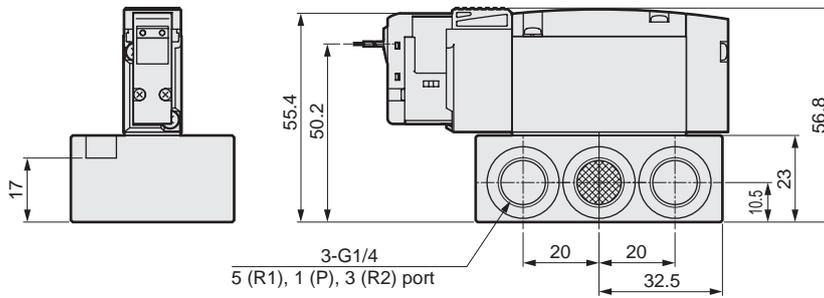
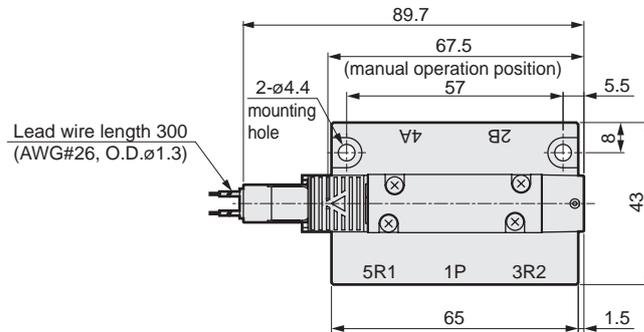
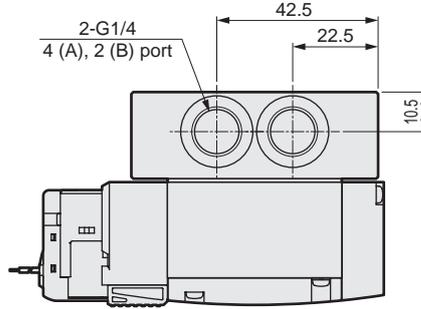
# 3GB2/4GB2 Series

Discrete valve; base piping

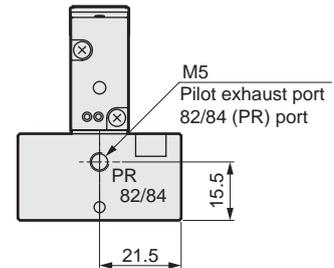
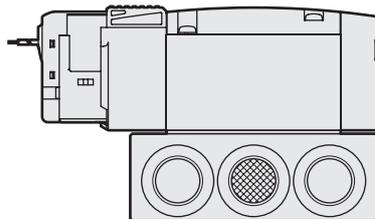
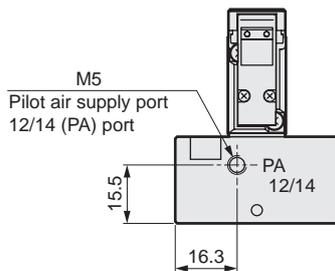
Dimensions Port size; G thread

3GB2<sup>66</sup><sub>67</sub><sup>76</sup><sub>77</sub>0R-P7\*, 4GB2<sup>1</sup><sub>2</sub>0R-P7\*

● 2-position single grommet lead wire (blank)



● External pilot (K)

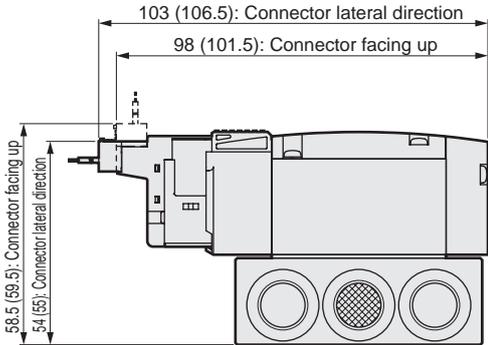


# 3GB2/4GB2 Series

Discrete valve; base piping

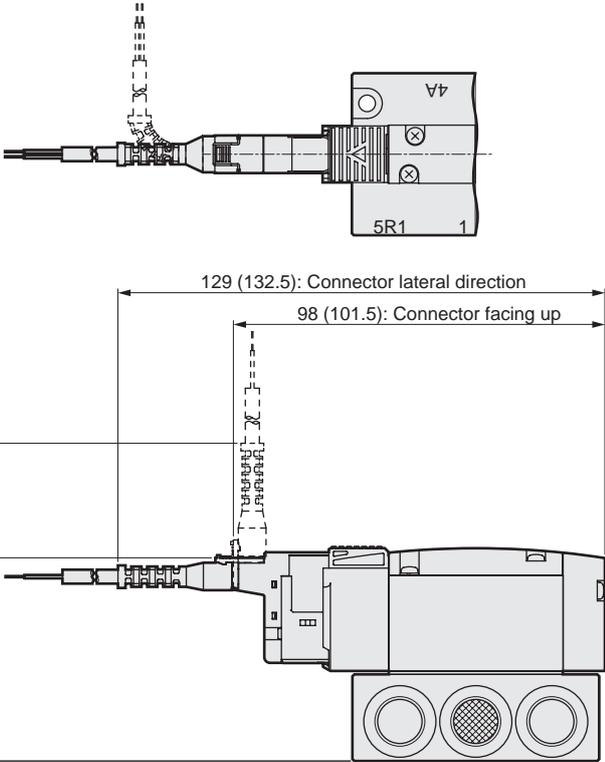
## Dimensions Port size; G thread

● E connector (E)



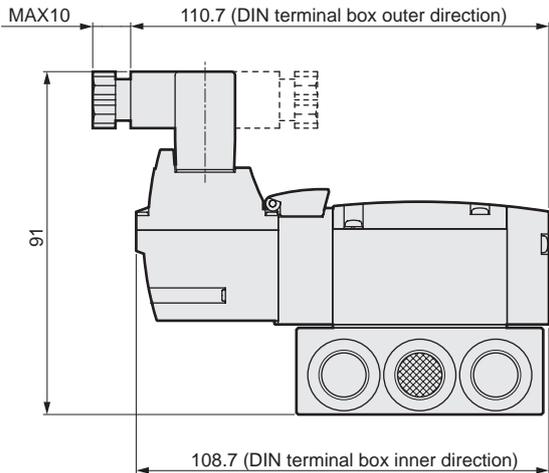
Note: Values in ( ) are applicable to AC voltages.

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending