

4GA1 to 3 / 4GB1 to 3-FP1 Series

Series variation

- *1: Effective cross-sectional area S and sonic conductance C are converted as $S \approx 5.0 \times C$.
- *2: The grommet lead wire specifications are for DC voltages only.
- *3: The two 3-port valves integrated type is compatible with 3GA1/2 and 3GB1/2.
- *4: P/R piping port is either M5 or Rc thread.
- *5: Specification for reduced wiring manifold built-in. Only 12/24 VDC is supported.
- *6: "○" indicates made to order.

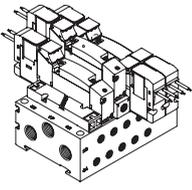
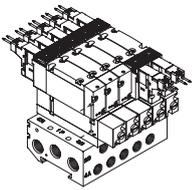
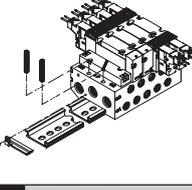
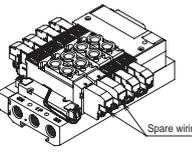
	Switching position						A/B piping port (*4)				Electrical connections												Page												
											Single unit, individual wiring						Reduced wiring																		
	2-position		3-position		3 Port valve 2 Individual integrated (*3)	Mix	Push-in fitting				Female thread				Grommet lead (*2)	E type connector	EJ type connector	DIN terminal box	A-conductor (*5)	Common terminal block	D-sub-conductor	Flat cable with power supply terminal		Flat cable without power supply terminal	Serial transmission	Serial transmission									
	Normally closed	Normally open	Single	Double			All ports closed	ABR connection	PAB connection	∅4	∅6	∅8	∅10	M 5													Rc 1/8	Rc 1/4	Rc 3/8	Blank	E□	E□J	B□	A2N	T1□
	●	●					○					●	●				●	●	●																99
	●	●					○					●	●	●			●	●	●																99
	●	●																																	103
			●	●																															103
	●	●	●	●	●	●	○	○				●	●				●	●	●																107
	●	●	●	●	●	●	○	○				●	●	●			●	●	●																111
	●	●	●	●	●	●	○	○				●	●								●	●	●	●	●	●	●	●							115
	●	●	●	●	●	●	○	○				●	●	●							●	●	●	●	●	●	●	●							115
	●	●	●	●	●	●	○	○				●	●								●	●	●	●	●	●	●	●							115
	●	●	●	●	●	●	○	○				●	●	●							●	●	●	●	●	●	●	●							115
	●	●	●	●	●	●	○	○				●	●								●	●	●	●	●	●	●	●							119
			●	●	●	●	○	○				●	●								●	●	●	●	●	●	●	●							119
			●	●	●	●	○	○				●	●								●	●	●	●	●	●	●	●							119
			●	●	●	●	○	○				●	●								●	●	●	●	●	●	●	●							119

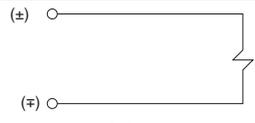
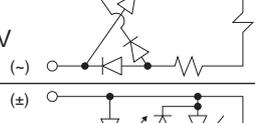
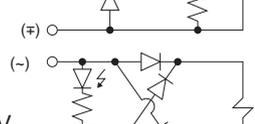
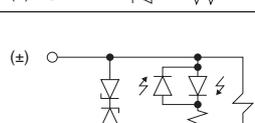
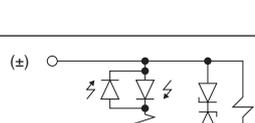
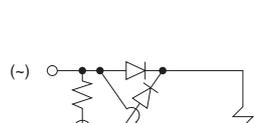
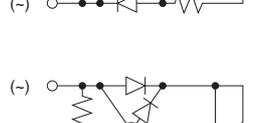
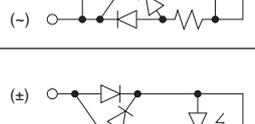
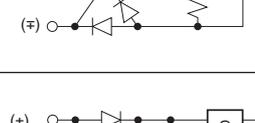
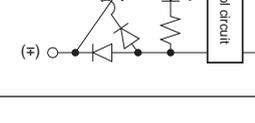
Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FR/L Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/ bacteria-removing filter	Vacuum components	Fluid control valves
-------------------	---------------------	------------------	------------------	--	-------------------	----------------------	----------------------	----------------------	--	-------------------	----------------------

4GA1 to 3 / 4GB1 to 3-FP1 Series

Electric actuator	Electrical connections				Manual override	Other options
	Discrete valve/individual wiring manifold		Reduced wiring manifolds			
Pneumatic cylinders	Blank Grommet lead wire (A) ● Lead wire length 300 mm	E3 E-connector with socket/terminal (B,C)	T10 T11 Common terminal block (left side) M3 thread specifications/clamping specifications	T51 T52 T53 Flat cable without power supply terminal (left side)	Blank Non-locking/locking common	H With exhaust check valve
					(Standard equipment) 	 Standard for pilot exhaust
Assistive device	E0 E-connector (A)	A2N A-connector downward without socket	T10R T11R Common terminal block (right-side) M3 thread specifications/clamping specifications	T51R T52R T53R Flat cable without power supply terminal (right side)		P Mounting plate
Pneumatic valves	● Lead wire length 300 mm 500 mm 1000 mm 2000 mm 3000 mm 					
FRL/Auxiliary Components Electronic Component	E0N E-connector without socket	● For AC voltages, the (a) dimension is 3.5mm longer than for DC voltages. 	T30 D-sub-connector (left)	T6 Serial transmission	For non-locking Push to turn ON, release to turn OFF PUSH for locking and turn 90° clockwise to hold the ON state. Turn counterclockwise to unlock OFF	K External pilot
Vacuum components						 1214 PAH 4 2 (A)(B) 5 1 3 (R)(P) 1 (R) 1
Main line components	E1 E type connector socket terminal Included	B BN DIN terminal box (BN: Without terminal box)	T30R D SBush connector (Right)	T6 Serial transmission Type (thin)		M Non-locking
Fluid control valves						
Main line components	E2 E-connector (A,B,C) ● Lead wire length 300 mm 500 mm 1000 mm 2000 mm 3000 mm	E0J EJ EJ type Connector (A)	T50 Flat cable with power supply terminal (left side)	(A): With lead wire (B): With indicator lamp (C): With surge suppressor		
Anti-bacterial/bacteria-removing filter						
Vacuum components	E2N E-connector Without socket (B,C)	E2J EJ-connector (A,B,C)	T50R Flat cable with power supply terminal (right side)			
Fluid control valves						

Electrical connection circuit diagram

Other options	
Z1	Air supply spacer
Z3	Exhaust spacer
	
Z2	In-stop valve spacer
	
D	DIN rail mount
	
W1	Double wiring (With single spare wiring)
	

Electrical connections		Without lead wire	With lead wire	With indicator lamp	With surge suppressor	Without socket	Circuit diagram	
Option S	Blank	Grommet lead wire	●				DC 	
	E0	E-connector	●				DC 	
	E0*J	EJ-connector	●				DC 	
	E0N	E-connector				●	AC 100V 	
	E1	E-connector	●				DC 	
	E2	E-connector		●	●	●	DC 	
	E2*J	EJ-connector		●	●	●	AC 100V 	
	E2N	E-connector			●	●	●	DC 
	E3	E-connector	●		●	●		DC 
	A2N	A-connector			●	●	●	DC 
Option E	B	DIN terminal box	●		●	●	DC 	
	BN	DIN terminal box (without terminal box)	●			●	AC 100V 	
	E2	E-connector		●	●	●	AC 200V 	
	E2*J	EJ-connector		●	●	●	DC 	
	E2N	E-connector			●	●	●	DC
	E2	E-connector		●	●	●		DC

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FRL/Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves
-------------------	---------------------	------------------	------------------	---	-------------------	----------------------	----------------------	----------------------	---	-------------------	----------------------

FP1

FP2