

# Series variation

# W4G2-FP1 Series

NSF H1

FP1	Electric actuator	Pneumatic cylinders	Pneumatic valves	FRU/Auxiliary components Electronic components	Vacuum components	Main line components	Fluid control valves	Main line components	Antibacterial/Bacteria-removing filter	Vacuum components	Fluid control valves	Series variation/appearance	Model No.	Position Number of solenoid valves JIS symbol	Valve performance			Voltage		Degree of protection																				
															Flow characteristics C [dm <sup>3</sup> /(s·bar)] *1	Applicable cylinder bore size	100 VAC	24 VDC	12 VDC		1	3	4																	
																	1	3	4																					
FP2	Antibacterial/Bacteria-removing filter	Vacuum components	Fluid control valves	Main line components	Fluid control valves	Main line components	Reduced wiring manifold	Base bottom piping	Common terminal block (T10) Serial transmission (T7, T8*)	MW4GZ2 (NW4GZ2)	Common terminal block (-T10) Serial transmission (-T7, T8*)	MW4GZ2 (NW4GZ2)	Common terminal block (-T10) Serial transmission (-T7, T8*)	<ul style="list-style-type: none"> <li>3-port valve 2-position single NC</li> </ul>	2.1 to 2.5	ø20 to ø80	● ● ●	IP65	● ● ●	IP65 Equivalent																				
																					Base side piping	I/O connector (R1) MW4GZ2*0 I/O connector (R1)	MW4GB2 (NW4GB2)	Common terminal block (-T10) Serial transmission (-T7, T8*)	MW4GB2 (NW4GB2)	<ul style="list-style-type: none"> <li>2-position single NO</li> </ul>	1.7 to 2.3	ø20 to ø80	● ● ●	IP65 Equivalent										
																															Body piping	Common terminal block (T10) Serial transmission (T7, T8*)	MW3GA2 (NW3GA2) (NW4GA2)	Common terminal block (-T10) Serial transmission (-T7, T8*)	MW3GA2 (NW3GA2) (NW4GA2)	<ul style="list-style-type: none"> <li>5-port valve 2-position single</li> </ul>	1.7 to 2.3	ø20 to ø80	● ● ●	IP65 Equivalent
																					Body piping	Common terminal block (T10) Serial transmission (T7, T8*)	MW3GA2 (NW3GA2) (NW4GA2)	Common terminal block (-T10) Serial transmission (-T7, T8*)	MW3GA2 (NW3GA2) (NW4GA2)	<ul style="list-style-type: none"> <li>3-position all ports closed</li> </ul>	1.7 to 2.3	ø20 to ø80	● ● ●	IP65										
																															Base side piping	Common terminal block (T10) Serial transmission (T7, T8*)	MW4GB2 (NW4GB2)	Common terminal block (-T10) Serial transmission (-T7, T8*)	MW4GB2 (NW4GB2)	<ul style="list-style-type: none"> <li>3-position A/B/R connection</li> </ul>	1.7 to 2.3	ø20 to ø80	● ● ●	IP65
																					Base bottom piping	Common terminal block (T10) Serial transmission (T7, T8*)	MW4GZ2 (NW4GZ2)	Common terminal block (-T10) Serial transmission (-T7, T8*)	MW4GZ2 (NW4GZ2)	<ul style="list-style-type: none"> <li>3-position P/A/B connection</li> </ul>	1.7 to 2.3	ø20 to ø80	● ● ●	IP65										

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

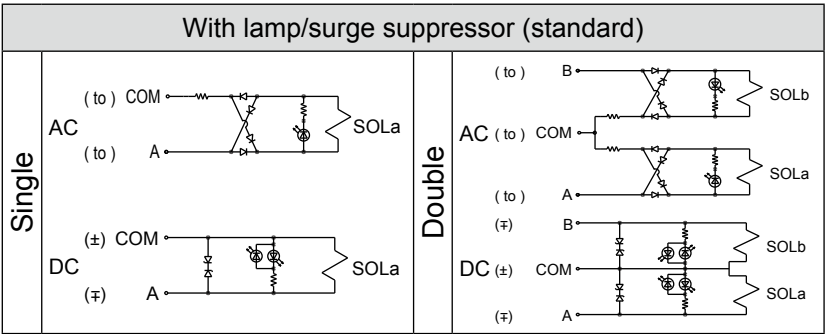
	Switching position							A/B piping connection port				Electrical connections				Page
	2-position				3-position			Push-in fitting		Female thread		Terminal block	I/O connector	Common terminal block	Serial transmission	
	Normally closed	Normally open	Single	Double	All ports closed	ABR connection	PAB connection	Mix	ø6	ø8	Rc1/8					
								C6	C8	O6	O8	Blank	R1	T10	T7□T8□	
			●	●	●	●	●				●	●	●			175
	●	●	●	●	●	●	●	●	●	●			●			177
			●	●	●	●	●	●	●				●			179
			●	●	●	●	●	●	●				●			179
	●	●	●	●	●	●	●	●	●	●				●		181
	●	●	●	●	●	●	●	●	●	●				●	●	
			●	●	●	●	●	●	●					●		187
			●	●	●	●	●	●	●					●	●	
			●	●	●	●	●	●	●					●		187
			●	●	●	●	●	●	●					●	●	

Electric actuator	Pneumatic cylinders	Pneumatic valves	FRU/Auxiliary components	Vacuum components	Main line components	Fluid control valves	Main line components	Antibacterial/Bacteria-removing filter	Vacuum components	Fluid control valves
			FP1							FP2

# W4G2-FP1 Series

FP1	Electric actuator	Electrical connections			Manual override		Other options							
	Pneumatic cylinders	Single unit	Individual wiring manifold	Reduced wiring manifold	Blank	Non-locking Locking common (Standard equipment)	M	Non-locking Manual override	H	With check valve	F	Port A/B filter integrated	Z1	Air supply spacer
	Pneumatic valves	Blank	R1	T10	Blank									
	FRU/Auxiliary components Electronic components	Terminal block	I/O connector (M12)	Common terminal block										
	Vacuum components													
	Main line components													
	Fluid control valves													
	Main line components													
	Fluid control valves													
	Main line components													

## Electrical connection circuit diagrams (inside the solenoid valve)



Zener diode is used as a surge suppressor.