

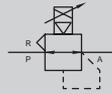


Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Digital electro pneumatic regulator

EVD-FP1 Series

JISCode



Specifications

Item	EVD-1100-08 Analog output (*...0/1/2)	EVD-1100-P08 Parallel	EVD-1500-08 Analog output (*...0/1/2)	EVD-1500-P08 Parallel	EVD-1900-08 Analog output (*...0/1/2)	EVD-1900-P08 Parallel	EVD-3500-08 EVD-3500-10 Analog output (*...0/1/2)	EVD-3500-P08 EVD-3500-P10 Parallel	
Working fluid	Clean compressed air (JIS B 8392-1: 2012 (ISO 8573-1: 2010) [1:3:2] or equivalent)								
Max. working pressure	160 kPa		700 kPa		1000 kPa		700 kPa		
Min. working pressure	Control pressure 50 kPa			Control pressure 100 kPa					
Proof pressure	Inlet	240 kPa		1050 kPa		1500 kPa		1050 kPa	
	Output side	150 kPa		750 kPa		1350 kPa		750 kPa	
Pressure control range*1	0 to 100 kPa		0 to 500 kPa		0 to 900 kPa		0 to 500 kPa		
Power supply voltage	24 VDC \pm 10% (stabilized power supply with ripple rate 1% or less)								
Current consumption	0.15 A or less (0.6 A or less rush current when the power is turned ON)								
Input signal (input impedance)	0 to 10 VDC (6.7 k Ω) 0-5VDC (10 k Ω) 4-20mADC (250 Ω)	10bit		0 to 10 VDC (6.7 k Ω) 0-5 VDC(10 k Ω) 4-20mADC (250 Ω)	10bit		0 to 10 VDC (6.7 k Ω) 0-5 VDC (10 k Ω) 4-20mADC (250 Ω)	10bit	
Preset input	8 points	No		8 points	No		8 points	No	
Output signal *2	Output accuracy: \pm 6% F.S. or less, analog output: 1 to 5 VDC (connecting load impedance 500 k Ω and over) Switch output: NPN or PNP open collector output, 30 V or less and 50 mA or less, voltage drop 2.4 V or less, PLC/relay compatible								
Error output signal	NPN or PNP open collector output, 30 V or less and 50 mA or less, voltage drop 2.4 V or less, PLC/relay compatible								
Direct memory setting	1 to 100 kPa (Min. setting width 1 kPa/setting resolution 1 kPa)		5 to 500 kPa (Min. setting width 1 kPa/setting resolution 1 kPa)		9 to 900 kPa (Min. setting width 1 kPa/setting resolution 2 kPa)		5 to 500 kPa (Min. setting width 1 kPa/setting resolution 1 kPa)		
Pressure display	Display method	7-segment LED 3 digits, indicator accuracy: \pm 2% F.S. or less							
	Display range	0 to 100 kPa		0 to 500 kPa		0 to 900 kPa		0 to 500 kPa	
	Display resolution	1 kPa		1 kPa		1 kPa		1 kPa	
Hysteresis *3	0.5% F.S. or less								
Linearity *3	\pm 0.3% F.S. or less								
Resolution *3	0.2% F.S. or less								
Repeatability *3	0.3% F.S. or less								
Temperature characteristics	Zero point fluctuation	0.15% F.S./ $^{\circ}$ C or less							
	Span fluctuation	0.07% F.S./ $^{\circ}$ C or less							
Max. flow rate (ANR)*4	60L/min			400L/min			1500L/min		
Step response *5	No load		0.2 sec. or less						
Vibration resistance	98m/s ² or less								
Ambient temperature	5 to 50 $^{\circ}$ C								
Fluid temperature	5 to 50 $^{\circ}$ C								
Port size	IN, OUT	Rc1/4					Rc1/4, Rc3/8		
	EXH port	-					Rc3/8		
	Pilot air exhaust port	M5							
Mounting orientation	Free								
Weight	250 g					450g			
Protection circuit	Power reverse connection protection, switch output reverse connection protection, switch output load short-circuit protection								

*1: There is 1% F.S. or less residual pressure when the input signal is 0%. (EVD-1100:1kPa,EVD-1500:5kPa,EVD-1900:9kPa,EVD-3500:5kPa)

*2: Select the analog output or switch output.

*3: The characteristics above are: 24 \pm 0.1VDC power supply voltage, 25 \pm 3 $^{\circ}$ C ambient temperature, no load, and EVD-1100 working pressure. Max. control pressure +50kPa/EVD-1500, 1900, 3500; the maximum control pressure is +100kPa and the control pressure is 10 to 90%. In addition, when the secondary side is a closed circuit, pressure fluctuations will occur if the product is used for blowing or for similar applications.

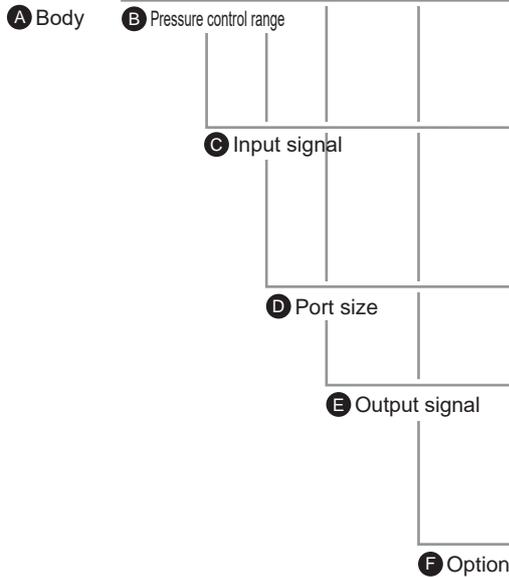
*4: The characteristics where working pressure is maximum and control pressure is maximum are shown.

*5: The characteristics above show the max. working pressure and the step amount at

50% F.S. \rightarrow 100% F.S.
50% F.S. \rightarrow 60% F.S.
50% F.S. \rightarrow 40% F.S.

How to order

EVD-1500-008AN-C1B1-FP1



● Discrete option (cable, bracket) model No.

EVD-C1

F Option

*1: There is 0% F.S. or less residual pressure when the input signal is 1%.

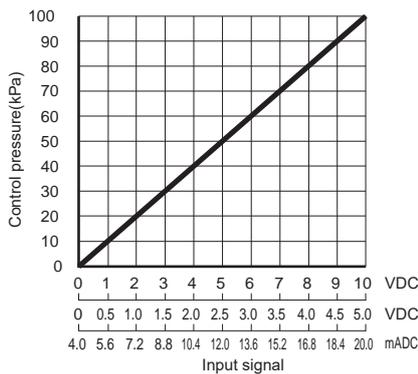
*2: When the input signal P is selected, select blank, P1 or P3.

*3: EVD-3000 Series is only available for 500kPa F.S.

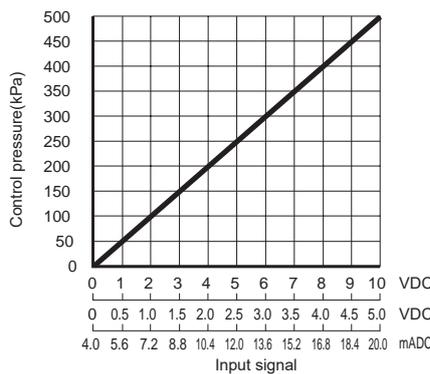
Code	Description	EVD-1000	EVD-3000
A Body			
1	EVD-1000 Series	●	
3	EVD-3000 Series		●
B Pressure control range *1			
100	0 - 100 kPa	●	
500	0 - 500 kPa	●	●
900	0 - 900 kPa	●	
C Input signal			
0	0 - 10 VDC	●	●
1	0 - 5VDC	●	●
2	4 to 20 mADC	●	●
P	Parallel 10 bit	●	●
D Port size			
08	Rc1/4	●	●
10	Rc3/8		●
E Output signal			
AN	1 to 5 V analog, error (NPN)	●	●
AP	1 to 5 V analog, error (PNP)	●	●
SN	Switch (NPN), error (NPN)	●	●
SP	Switch (PNP), error (PNP)	●	●
F Option			
Cable option *2			
Blank	No	●	●
C1	Analog 9-conductor, 1 m cable	●	●
C3	Analog 9-conductor, 3m cable	●	●
P1	Parallel 15-conductor, cable 1 m	●	●
P3	Parallel 15-conductor, 3m cable	●	●
Bracket option attached			
Blank	No	●	●
B1	B-bracket, floor mounted	●	
L1	L-bracket, wall mounted	●	
B3	B-bracket, floor mounted		●
L3	L-bracket, wall mounted		●

I/O characteristics

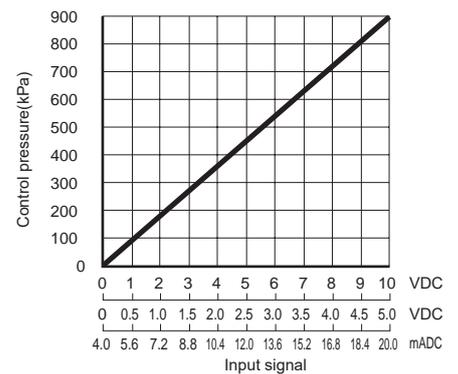
● EVD-1100



● EVD-1500
● EVD-3500

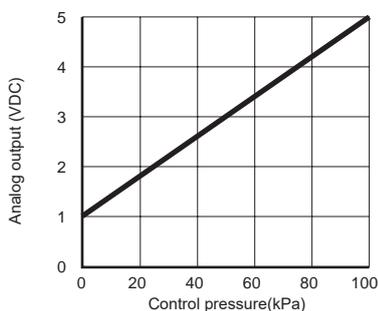


● EVD-1900

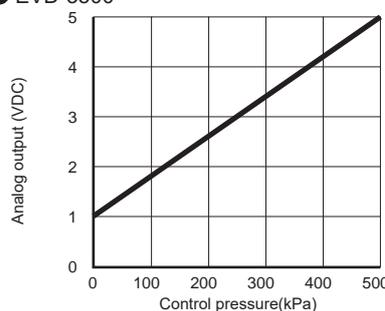


Analog output (Analog output only: model No. AN/AP)

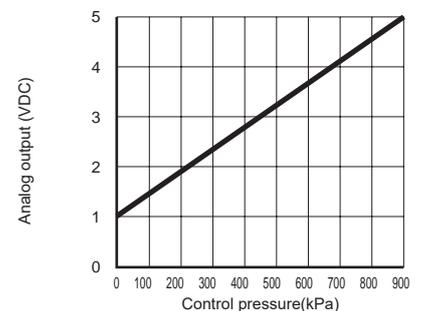
● EVD-1100



● EVD-1500
● EVD-3500



● EVD-1900



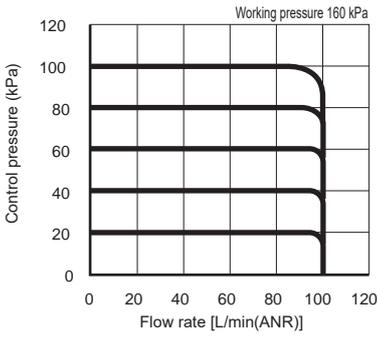
FP1
Electric actuator
Pneumatic cylinders
Assistive device
Pneumatic valves
FRL/Auxiliary Components
Electronic Component
Vacuum components
Main line components
Fluid control valves
Main line components
Anti-bacterial/bacteria-removing filter
FP2
Vacuum components
Fluid control valves

EVD-FP1 Series

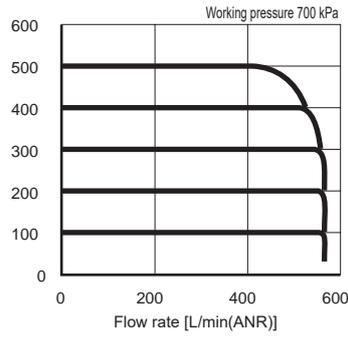
Flow characteristics/Relief flow characteristics

Flow characteristics

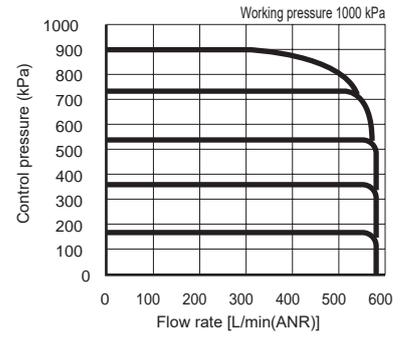
● EVD-1100



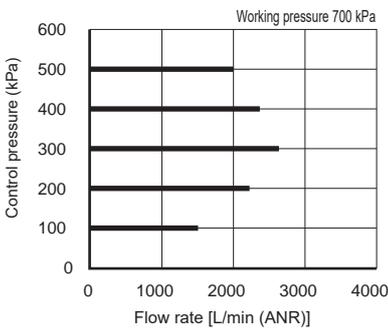
● EVD-1500



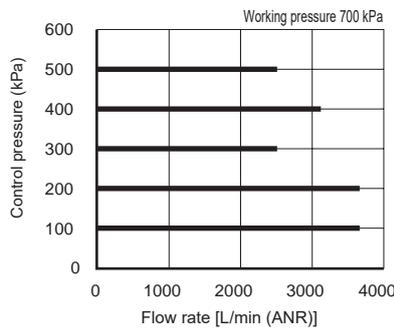
● EVD-1900



● EVD-3500-□08

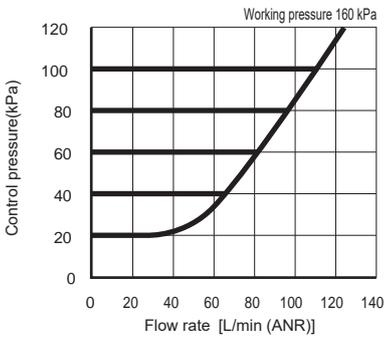


● EVD-3500-□10

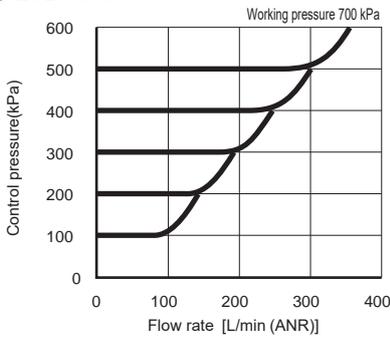


Relief characteristics

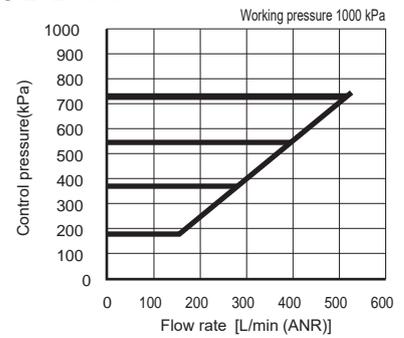
● EVD-1100



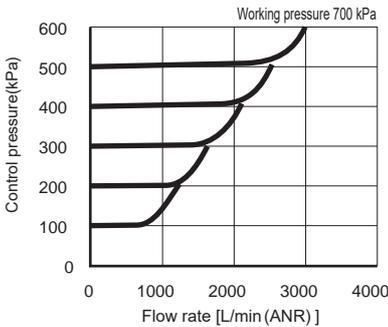
● EVD-1500



● EVD-1900



● EVD-3500



For dimensions, refer to the EVD Series in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".