

Solenoid Valve

Diaphragm type
2-port valve

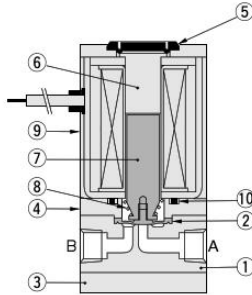
F-EV120

Symbol

Normally closed (NC) type



Inner Construction and Materials



No.	Parts	Materials
①	Body	PTFE
②	Diaphragm	PTFE
③	Plate	Aluminum alloy (black anodized)
④	Adapter	Aluminum alloy (black anodized)
⑤	Cap Note	
⑥	Column	
⑦	Plunger	
⑧	Spring	
⑨	Solenoid	
⑩	O-ring	

Note: The No.5 cap is not a manual override.
Pushing this cap will not switch the functions.

Specifications

Item	Model	F-EV120
Media		Pure water, chemicals, air, N ₂
Operating temp. range °C [°F]	Media	5~60 [41~140]
	Atmosphere	0~50 [32~122]
Operating pressure range MPa (kgf/cm ²) [psi.]	A→B	0~0.15 (0~1.5) [0~21.8]
	B→A	0~0.03 (0~0.3) [0~4.4]
Back pressure MPa (kgf/cm ²) [psi.]		0~0.03 (0~0.3) [0~4.4]
Proof pressure MPa (kgf/cm ²) [psi.]		1 (10.2) [145]
Orifice [Cv]		3 [0.21]
Connection port size		Rc1/8
Leakage at valve seat cm ³ /min [in. ³ /min.]		0 [0] (When the media is water)
Operating frequency c.p.m.		30 or less
Mounting direction		Any
Mass kg [lb.]		0.25 [0.55]

Order Codes

F-EV120	-	
Basic model		Voltage
		DC24V
		AC100V
		AC200V

Note: The grommet type is the only available wiring type for the solenoid.

Solenoid Specifications

Model		F-EV120					
Item	Solenoid rating	DC24V		AC100V		AC200V	
		Flywheel diode incorporated for surge suppression		Flywheel			
Type							
Operating voltage range V		21.6~26.4 (24±10%)		90~110 (100±10%)		180~220 (200±10%)	
Current (When rated voltage is applied)	Frequency Hz	—		50 60		50 60	
	Energizing mA	420		160 150		70 65	
Allowable leakage current mA		30		15		7	
Insulation resistance MΩ		10					
Lead wire length mm [in.]		300 [11.8]					
Color of lead wire		Red (+), Black (—)		Yellow, Black		White, Black	
Surge suppression		Flywheel diode					

Dimensions mm [in.]

