5 Port Pilot Operated Solenoid Valve Rubber Seal

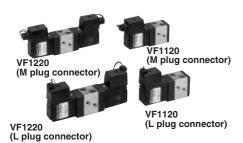
Series VF1000

Compact and lightweight: 26.4 mm width

Compact yet provides a large flow capacity: Sonic conductance C: 0.53 dm³/(s·bar) {4/2 → 5/3 (A/B → EA/EB)}

Low power consumption: 1.8 W (DC)





Double

VF1220

JIS Symbol Single

VF1120

Specifications

Fluid		Air	
Operating pressure	2 position single	0.15 to 0.9 MPa	
range	2 position double	0.1 to 0.9 MPa	
A contained and all fluid to		−10 to 50°C	
Ambient and fluid ter	mperature	(No freezing. Refer to page 3-13-4.)	
Response time (1)		20 ms or less (at the pressure of 0.5 MPa)	
Max. operating frequency		10 Hz	
Lubrication		Not required	
Manual override		Non-locking push, Locking slotted, Locking knob	
Mounting orientation		Unrestricted	
Shock/Vibration resistance (2)		300/50 m/s ²	
Enclosure		Dustproof	
Pilot valve EXH		Individual exhaust, Common exhaust for main valve and pilot valve	

Note 1) Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage, without surge suppressor)

Note 2) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz.

Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature.

(Values at the initial period)

Electrical entry			Grommet, Grommet terminal, Conduit terminal DIN terminal, L plug connector, M plug connector		
Coil rated voltage (V)	AC 50/60 Hz		100, 200, 12*, 24*, 48*, 110*, 220*, 240*		
Coll rated voltage (v)	DC		24, 6*, 12*, 48*, 100*, 110*		
Allowable voltage fluctuation			-15 to +10% of rated voltage		
Apparent power Note	AC	Inrush	5.6 VA (50 Hz), 5.0 VA (60 Hz)		
Apparent power Note)		Holding	3.4 VA (50 Hz), 2.3 VA (60 Hz)		
Power consumption Note)	DC		1.8 W, 2 W (With indicator light)		
Light/Curae veltage curarecer	AC		ZNR (Varistor), Neon bulb (LED100 V or less)		
Light/Surge voltage suppressor	DC		ZNR (Varistor), LED (Neon bulb100 V or more)		



* Option Note) At rated voltage

Option

Description	Part no.	Note
Dunalisat	DXT144-8-1A	For VF1220
Bracket	DXT144-8-3A	For VF1120
Silencer	AN120-M5	M5 x 0.8
Throttle valve	DXT154-34-1A	With element

Flow Characteristics/Weight

Valve model			Flow characteristics				Note)			
		Type of actuation	Port size	1 → 4/2 ($P \rightarrow P$	A/B)	4/2 → 5/3 (A	/B → E	EA/EB)	
				C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	(kg)
Body	VF1120	2 position single	1/8	0.76	0.22	0.17	0.53	0.28	0.13	0.16
ported	VF1220	2 position double	1/8	0.76	0.22	0.17	0.53	0.28	0.13	0.25



Note) Weight stands for grommet type.

Manifold

Note)	Applicable manifold type			
Model	Type		Exhaust	A, B port
VE4000 00 04	D mount	Type 30	Common	Valve
VF1□30-□□-01	B mount	Type 31	Individual	Valve

Note) For common exhaust type for main and pilot valve, model number will be VF1133, VF1233.



VK

VΖ

VF

VFR

VP4

VZS

VFS

VI 3

VS4

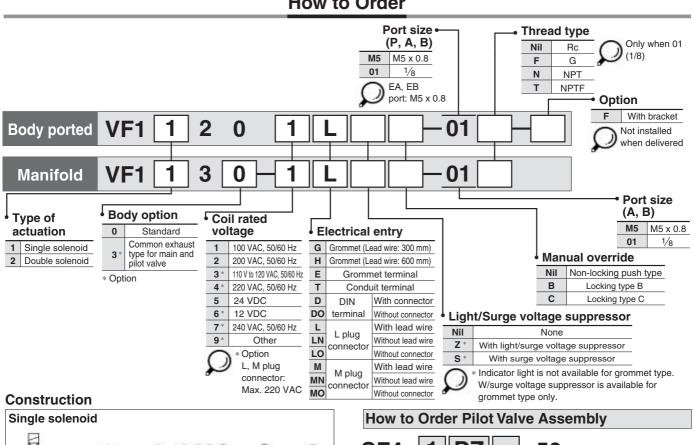
VQ7

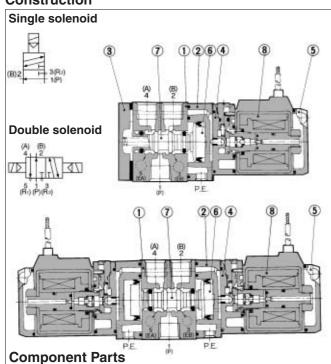
EVS

VFN

Series VF1000

How to Order



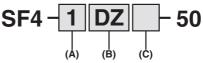


No.	Description	Material	Note
1	Body	Aluminum die-casted	Platinum silver
2	Adapter plate	Resin	Black
3	End cover	Aluminum die-casted	Black
4	Pilot body	Resin	
(5)	Pilot cover	Resin	
6	Piston	Resin	
7	Spool valve	Aluminum, NBR	

Replacement Parts

No.	Description	Material	Part no.
8	Pilot valve assembly Note)		SF4-□□□-50

Note) Refer to "How to Order Pilot Valve Assembly" on the right above.



(A) Coil rated voltage

	ronage			
1	100 VAC, 50/60 Hz			
2	200 VAC, 50/60 Hz			
3 *	110 to 120 VAC, 50/60 Hz			
4 *	220 VAC, 50/60 Hz			
5	24 VDC			
6 *	12 VDC			
7*	240 VAC, 50/60 Hz			
9 * Other				
* Option				

(C) Manual override

	override	
	Nil	Non-locking push type
	В	Locking type B
	С	Locking type C

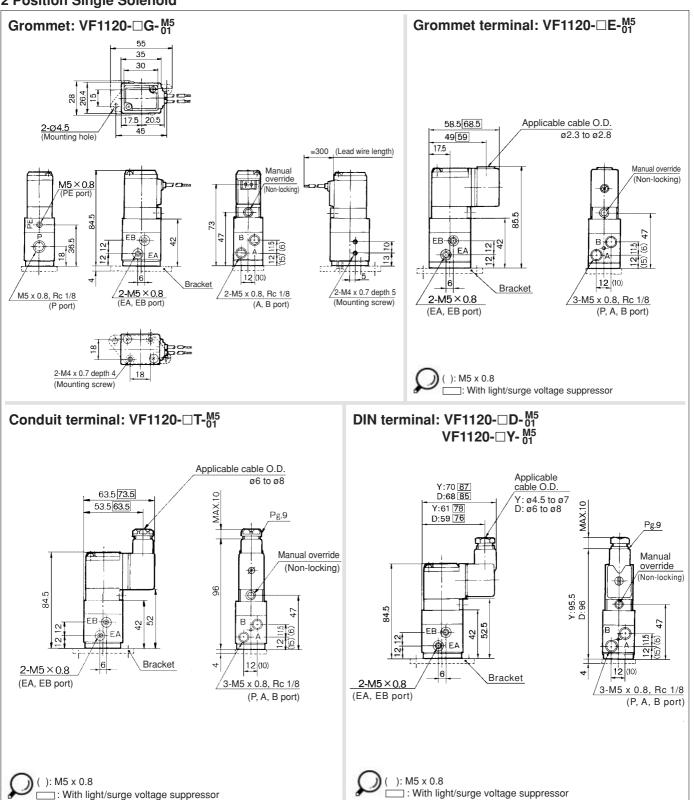
(B) Electrical entry, Light/surge

١	∕oltage	suppres	ssor
Symbol	Elect	rical entry	Light/Surge voltage suppressor
G		Lead wire length	None
GS	Grommet	300 mm	With surge voltage suppressor
Н	Grommet	Lead wire length	None
HS		600 mm	With surge voltage suppressor
Е	Gromm	et terminal	None
EZ	Grommi	ot torriniar	With light/surge voltage suppressor
Т	Condu	it terminal	None
TZ	001144		With light/surge voltage suppressor
D		With	None
DZ	DIN	connector	With light/surge voltage suppressor
DO	terminal	Without	None
DOZ		connector	With light/surge voltage suppressor
L		With lead	None
LZ		wire	With light/surge voltage suppressor
LN	L plug	Without lead	None
LNZ	connector	wire	With light/surge voltage suppressor
LO		Without	None
LOZ		connector	With light/surge voltage suppressor
M		With lead	None
MZ		wire	With light/surge voltage suppressor
MN	63	Without lead	None
MNZ	connector	wire	With light/surge voltage suppressor
МО		Without	None
MOZ		connector	With light/surge voltage suppressor



5 Port Pilot Operated Solenoid Valve Rubber Seal Series VF1000

2 Position Single Solenoid



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VFR

VP4

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VFS

VS4

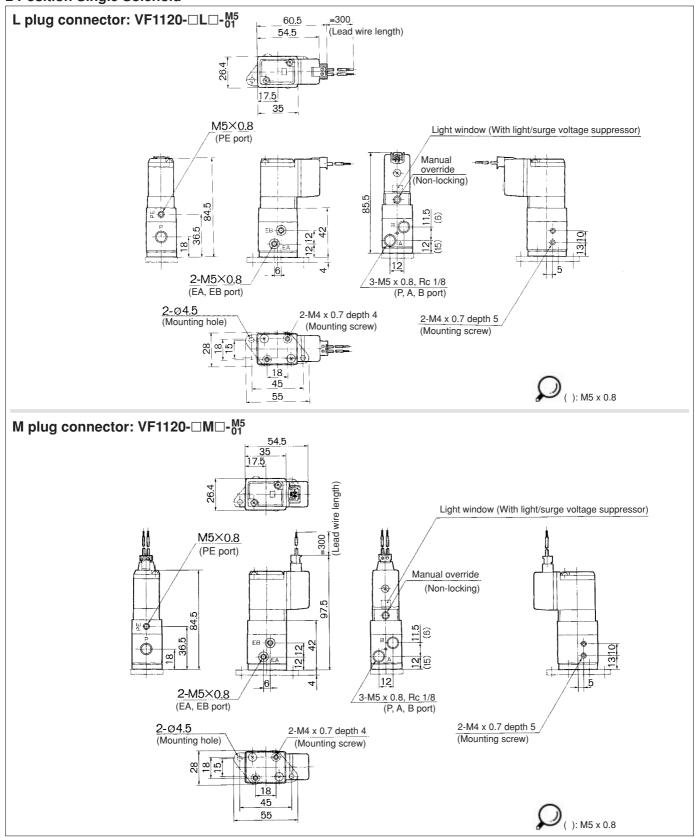
VQ7

EVS

VFN

Series VF1000

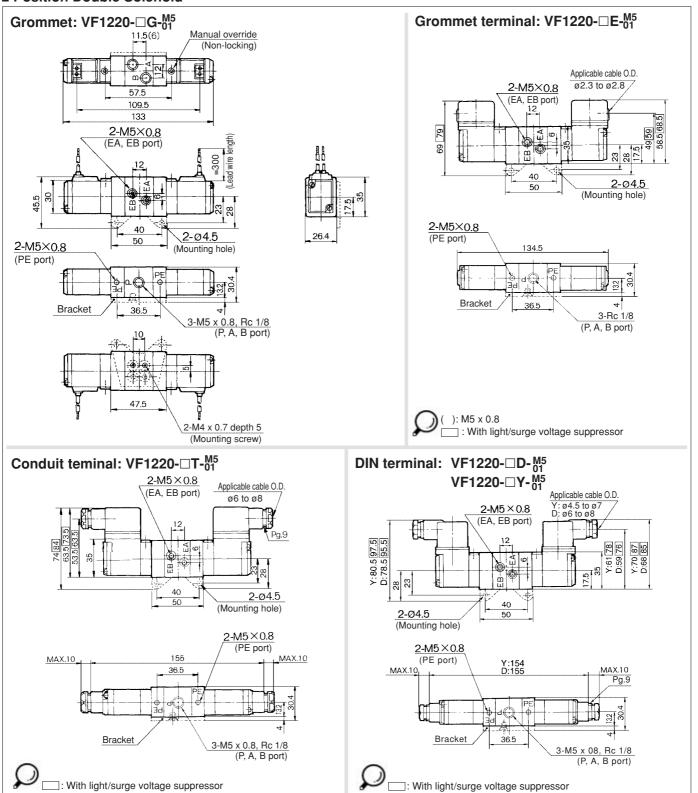
2 Position Single Solenoid



3-4-8

5 Port Pilot Operated Solenoid Valve Rubber Seal Series VF1000

2 Position Double Solenoid



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VS4

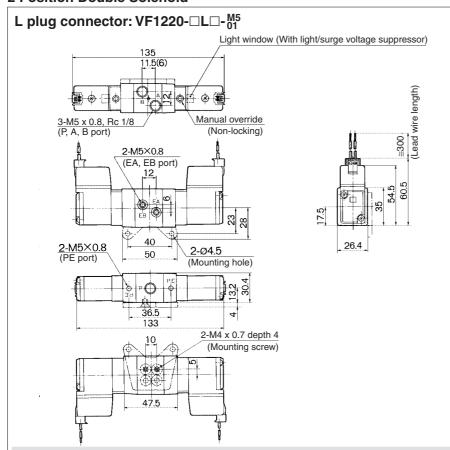
VQ7

EVS

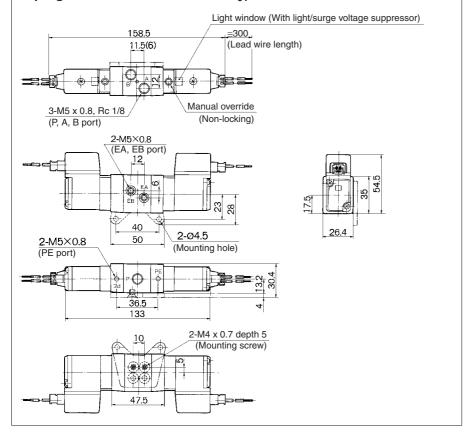
VFN

Series VF1000

2 Position Double Solenoid



M plug connector: VF1220-□M□-M5-01



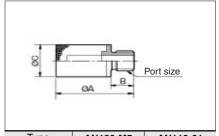
Option

Specifications: Silencer

•					
AN120-M5	AN110-01				
1.0 MPa	1.0 MPa				
5 to 60°C	5 to 60°C				
18 dB or more	21 dB or more				
a 5 mm ²	35 mm²				
M5 x 0.8	R 1/8				
BC-6	BC-6				
3.3 g	20 g				
Single unit, Manifold (Individual EXH type)	Manifold (Common EXH type)				
2	1.0 MPa 1.0 MP				

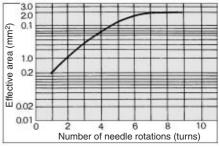
^{*} At 0.5 MPa

Dimensions: Silencer



Type		AN120-M5	AN110-01
	Α	17	38
Dimensions	В	5	6
	С	8	13

Flow Characteristics: Throttle Valve DXT154-34-1A



Effective area: S = 2.2 mm², Cv = 0.12 Air passage: A port → EA port (Throttle valve)

Dimensions:

