

Pilot Operated 5 Port Solenoid Valve

VF1000/3000/5000 Series

Body Ported

Single Unit



Note) Pressure specifications:
0.7 MPa, DC or 24 VAC only
Only applies to X500 for
made-to-order specifications



How to Order Valve

Body ported VF 3 1 3 0 - 5 G 1 - 01

Series

1	VF1000
3	VF3000
5	VF5000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

* Only 1 and 2 are available with the VF1000.

Body model

Symbol	VF1000	VF3000	VF5000
2	○	—	—
3	—	○	—

Pressure specifications

	Nil	Standard (0.7 MPa)	High-pressure type (1 MPa)
K	—	●	—

Body option

0: Pilot valve individual exhaust

	VF1000	VF3000	VF5000
PE port* EA/EB port	○	○	○

3: Main/Pilot valve common exhaust

	VF1000	VF3000	VF5000
PE port EA/EB port	—	○	○

* Refer to "Made to Order" (Page 305) when piping to PE port is required.

Coil specifications

	Nil	Standard
T	—	With power saving circuit (DC only)

Note) Be sure to select the power saving circuit type when it is continuously energized for long periods of time. (Refer to page 342 for details.)

* T type is available with DC mode only. When T is selected, only Z type of light/surge voltage suppressor is available. (Note that when the electrical entry of DIN terminal type without connector is selected, only DOs and YO is available.)

Rated voltage

DC	AC (50/60 Hz)
5 24 VDC	1 100 VAC
6 12 VDC	2 200 VAC
	3 110 VAC [115 VAC]
	4 220 VAC [230 VAC]
	7 240 VAC
	B 24 VAC

Note) For triac output, refer to the made-to-order specifications (X600).

Thread type

	Nil	Rc
F	—	G
N	—	NPT
T	—	NPTF

* M5 is available with Nil only.

Bracket

	Nil	Without bracket
F	—	With bracket

VF1000/3000
Single type
(The bracket cannot be connected after delivered.)

VF1000
Double type
only

* Not available with the VF5000.

Made to Order

	Nil	X500	X600
Pilot exhaust port with piping thread (M3) specification (Refer to page 305.)	—	●	—
TRIAC output specification (Refer to page 305.)	—	—	—

A, B port size

Symbol	Port size	VF1000	VF3000	VF5000
M5	M5 x 0.8	○	—	—
01	1/8	○	○	—
02	1/4	—	○	○
03	3/8	—	—	○

Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type

Light/Surge voltage suppressor

Symbol	Light/Surge voltage suppressor	DC	AC
Nil	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	—(Note)
Z	With light/surge voltage suppressor	○	○
R	With surge voltage suppressor (Non-polar)	○	—
U	With light/surge voltage suppressor (Non-polar)	○	—

Note) S type is not available with AC mode, since a rectifier prevents surge voltage generation.

* In the DIN terminal type, since a light is installed in the connector, DOZ, DOU, YOZ, YOU are not available.



Caution
When using the surge voltage suppressor type, residual voltage will remain. Refer to page 342 for details.

Grommet	L-type plug connector	M-type plug connector	DIN terminal	DIN (EN175301-803) terminal	Conduit terminal
G: Lead wire length 300 mm H: Lead wire length 600 mm	L: With lead wire (length 300 mm)	M: With lead wire (length 300 mm)	D: With connector	Y: With connector	T: Conduit terminal
G: Lead wire length 300 mm H: Lead wire length 600 mm DC Without light/surge voltage suppressor	LN: Without lead wire LO: Without connector	MN: Without lead wire MO: Without connector	DO: Without connector	YO: Without connector	

CE/UKCA compliant AC

* LN and MN types are with 2 sockets.

* Refer to page 340 when different length of lead wire for L/M-type plug connector is required.

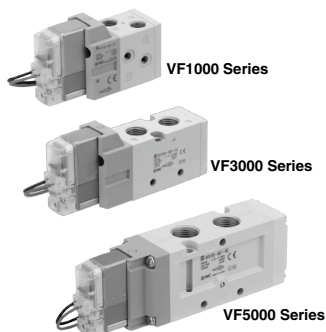
* Refer to page 341 for details on the DIN (EN175301-803) terminal.

Note 1) When using IP65, select the main/pilot valve common exhaust type. (Except VF1000)

Note 2) With the same specifications as the DC type, all electrical entries for the 24 VAC type are CE/UKCA marking compliant.

Pilot Operated 5 Port Solenoid Valve Body Ported/Single Unit **VF1000/3000/5000 Series**

Specifications



Model			VF1000	VF3000	VF5000
Fluid			Air		
Operating pressure range (MPa)	Standard	2-position single/3-position	0.15 to 0.7		
		2-position double	0.1 to 0.7		
	High-pressure type	2-position single/3-position	0.15 to 1.0		
		2-position double	0.1 to 1.0		
Ambient and fluid temperature (°C)			-10 to 50 (No freezing)		
Max. operating frequency (Hz)	2-position single/double		10	10	5
	3-position		—	3	3
Manual override			Non-locking push type Push-turn locking slotted type Push-turn locking lever type		
Pilot exhaust type			Individual exhaust, Main/Pilot valve common exhaust (Except VF1000)		
Lubrication			Not required		
Mounting orientation			Unrestricted		
Impact/Vibration resistance (m/s ²) (Note)			300/50		
Enclosure			Dustproof (IP65* for D, Y, T)		

Note) Impact resistance:

No malfunction occurred when it is tested 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)

* Based on IEC 60529. When using IP65, select the main/pilot valve common exhaust type.

Solenoid Specifications



Made to Order
(Refer to page 305 for details.)

Symbol	Specification
X500	Pilot exhaust port with piping thread (M3) specification
X600	TRIAC output specification

Electrical entry		Grommet (G), (H)		DIN terminal (D)		
		L-type plug connector (L)		DIN (EN175301-803) terminal (Y)		
		M-type plug connector (M)		Conduit terminal (T)		
		G, H, L, M		D, Y, T		
Coil rated voltage (V)		DC	24, 12			
		AC (50/60 Hz)	24, 100, 110, 200, 220, 240			
Allowable voltage fluctuation		±10% of rated voltage*				
Power consumption (W)	DC	Standard	1.5 (With light: 1.55)		1.5 (With light: 1.75)	
		With power saving circuit	0.55 ^(Note) (With light only) [Starting 1.55 Holding 0.55]		0.75 ^(Note) (With light only) [Starting 1.75 Holding 0.75]	
Apparent power (VA)*	AC	24 V	1.5 (With light: 1.55)		1.5 (With light: 1.75)	
		100 V	1.55 (With light: 1.65)		1.55 (With light: 1.7)	
		110 V [115 V]				
		200 V				
		220 V [230 V]				
	240 V					
Surge voltage suppressor		Diode (Non-polar type: Varistor)				
Indicator light		LED (Neon light is used for AC mode of D, Y, T.)				

* It is in common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.

* Allowable voltage fluctuation is -15% to +5% of the rated voltage for 115 VAC or 230 VAC.

* Since voltage drops due to the internal circuit in S, Z, T types (with power saving circuit), the allowable voltage fluctuation should be within the following range.

24 VDC: -7% to +10% 12 VDC: -4% to +10%

Note) Refer to page 342 for details.

Response Time

Series	Type of actuation		Pressure specifications	Operating pressure range (MPa)	Response time (ms) (at 0.5 MPa)				
					Without light/surge voltage suppressor	With light/surge voltage suppressor		AC	
VF1000	2-position	Single	Standard	0.15 to 0.7	20	S, Z type	R, U type		45
		Double		0.1 to 0.7	12	45	12	12	
		Single	High-pressure type	0.15 to 1.0	23	48	26	48	
		Double		0.1 to 1.0	15	15	15	15	
VF3000	2-position	Single	Standard	0.15 to 0.7	20	45	23	45	
		Double		0.1 to 0.7	12	12	12	12	
	3-position			0.15 to 0.7	30	55	33	55	
	2-position	Single		0.15 to 1.0	23	48	26	48	
		Double	High-pressure type	0.1 to 1.0	15	15	15	15	
	3-position			0.15 to 1.0	33	58	36	58	
VF5000	2-position	Single	Standard	0.15 to 0.7	30	55	33	55	
		Double		0.1 to 0.7	15	15	15	15	
	3-position			0.15 to 0.7	50	75	53	75	
	2-position	Single		0.15 to 1.0	33	58	36	58	
		Double	High-pressure type	0.1 to 1.0	18	18	18	18	
	3-position			0.15 to 1.0	53	78	56	78	

Note) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage)



VF1000/3000/5000 Series

Flow Rate Characteristics/Weight

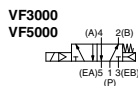
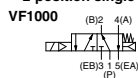
Valve model	Type of actuation		Port size		Flow rate characteristics ^{Note 1)}						Weight (g) ^{Note 2)}	
			1, 4, 2 (P, A, B)	5, 3 (EA, EB)	1 → 4/2 (P → A/B)			4/2 → 5/3 (A/B → EA/EB)			Grommet	DIN terminal
					C [dm³/ (s·bar)]	b	Cv	C [dm³/ (s·bar)]	b	Cv		
VF1□20-M5	2-position	Single	M5 x 0.8		0.49	0.40	0.13	0.52	0.35	0.13	140	176
		Double			0.49	0.40	0.13	0.52	0.35	0.13	200	272
VF1□20-01	2-position	Single	1/8	M5 x 0.8	0.76	0.22	0.17	0.53	0.28	0.13	136	172
		Double			0.76	0.22	0.17	0.53	0.28	0.13	196	268
VF3□30-01	2-position	1/8	3.0		0.38	0.78	2.8	0.30	0.67	182	218	
			Double		3.0	0.38	0.78	2.8	0.30	0.67	243	315
	3-position		Closed center		2.4	0.31	0.64	1.8	0.37	0.46	260	332
			Exhaust center		2.6	0.37	0.70	3.0 [2.5]	0.32 [0.28]	0.76 [0.62]	260	332
			Pressure center		3.0 [1.4]	0.42 [0.44]	0.83 [0.39]	2.4	0.27	0.59	260	332
VF3□30-02	2-position	1/4	1/8	4.0	0.36	1.0	3.1	0.32	0.75	178	214	
				Double	4.0	0.36	1.0	3.1	0.32	0.75	239	311
	3-position			Closed center	2.4	0.45	0.68	1.9	0.37	0.47	256	328
				Exhaust center	3.0	0.42	0.82	3.1 [2.7]	0.36 [0.29]	0.79 [0.66]	256	328
				Pressure center	5.5 [1.4]	0.37 [0.50]	1.4 [0.40]	2.6	0.32	0.64	256	328
VF5□20-02	2-position	1/4	7.1	0.46	1.9	7.7	0.51	2.2	313	349		
			Double	7.1	0.46	1.9	7.7	0.51	2.2	368	440	
	3-position		Closed center	6.7	0.46	1.8	6.6	0.41	1.8	406	478	
			Exhaust center	7.1	0.42	1.9	8.0 [7.4]	0.45 [0.47]	2.2 [2.1]	406	478	
			Pressure center	6.8 [2.7]	0.51 [0.50]	2.0 [0.78]	5.7	0.37	1.4	406	478	
VF5□20-03	2-position	3/8	8.8	0.44	2.4	10.0	0.49	2.9	299	335		
			Double	8.8	0.44	2.4	10.0	0.49	2.9	354	426	
	3-position		Closed center	7.5	0.43	2.0	7.5	0.38	1.9	391	463	
			Exhaust center	8.3	0.40	2.2	10.0 [8.7]	0.48 [0.46]	3.0 [2.4]	391	463	
			Pressure center	9.2 [3.0]	0.50 [0.49]	2.6 [0.85]	6.1	0.35	1.6	391	463	

Note 1) [] : Normal position
 Note 2) Values without bracket

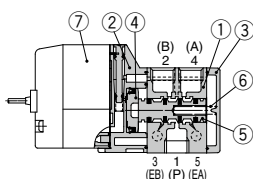
Construction: Body Ported

2-position single

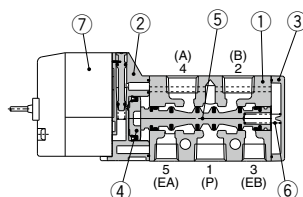
Symbol
2-position single



VF1000

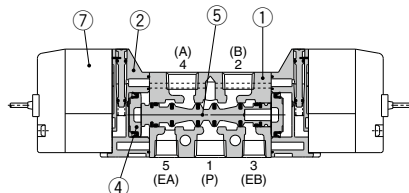
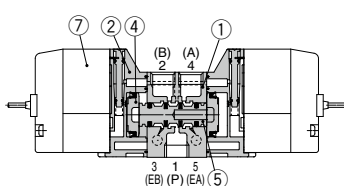
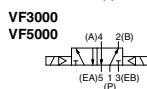
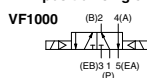


VF3000/5000



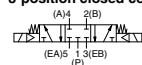
2-position double

Symbol
2-position single

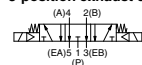


3-position closed center/exhaust center/pressure center

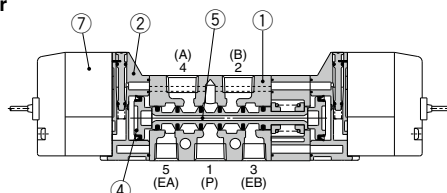
Symbol
3-position closed center



3-position exhaust center



3-position pressure center



(Drawing shows a closed center type.)

Component Parts

No.	Description	Material	Note
1	Body	Aluminum die-casted	White
2	Adapter plate	Resin	Gray
3	End plate	Resin (VF313□-F : Aluminum die-casted) VF1120-F : Aluminum die-casted	White
4	Piston	Resin	
5	Spool valve	Aluminum, HNBR	
6	Spring	Stainless steel	

Replacement Parts

No.	Description	Part no.	Note
7	Pilot valve assembly	Refer to "How to Order Pilot Valve Assembly" on page 296.	Built-in strainer

Bracket Assembly Part No.

Description	Part no.
Bracket (for VF1000 double)	DXT144-8-1A (With 2 mounting screws)

VF1000/3000/5000 Series

How to Order Pilot Valve Assembly (With a gasket and two mounting screws)

⚠ Caution

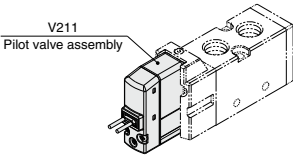
When only the pilot valve assembly is replaced, it is not possible to change from V211 (Grommet or L/M-type) to V212 (DIN or Conduit type), or vice versa.

Valve model: VF□□□□□□-5GZ□1-□□□

* Select from the below in accordance with the valve used.

■ Grommet or L/M-type

V211□□-5GZ



Light/Surge voltage suppressor		DC	AC
Nil	Without light/surge voltage suppressor	☐	☐
S	With surge voltage suppressor	☐	☐
Z	With light/surge voltage suppressor	☐	☐
R	With surge voltage suppressor (Non-polar)	☐	☐
U	With light/surge voltage suppressor (Non-polar)	☐	☐

Note) S type is not available with AC mode, since a rectifier prevents surge voltage generation. When T is selected, only Z type of light/surge voltage suppressor is available.

⚠ Caution

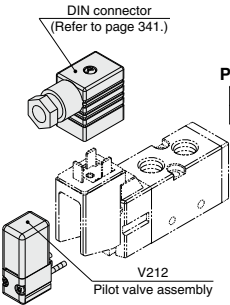
When using the surge voltage suppressor type, residual voltage will remain. Refer to page 342 for details.

● Electrical entry

G	Grommet (Lead wire length 300 mm)	
H	Grommet (Lead wire length 600 mm)	
L	L-type plug connector	With lead wire
LN		Without lead wire
LO		Without connector
M		With lead wire
MN	M-type plug connector	Without lead wire
MO		Without connector

* LN and MN types are with 2 sockets.
* Refer to page 340 when different length of lead wire for L/M-type plug connector is required.

■ DIN or Conduit type



V212□□-5

● Pressure specifications

Nil	Standard (0.7 MPa)
K	High-pressure type (1 MPa)

● Coil specifications

Nil	Standard
T	With power saving circuit (DC only)

* T type is available with DC mode only.

● Rated voltage

DC	
5	24 VDC
6	12 VDC
AC (50/60 Hz)	
1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]
7	240 VAC
B	24 VAC

⚠ Caution

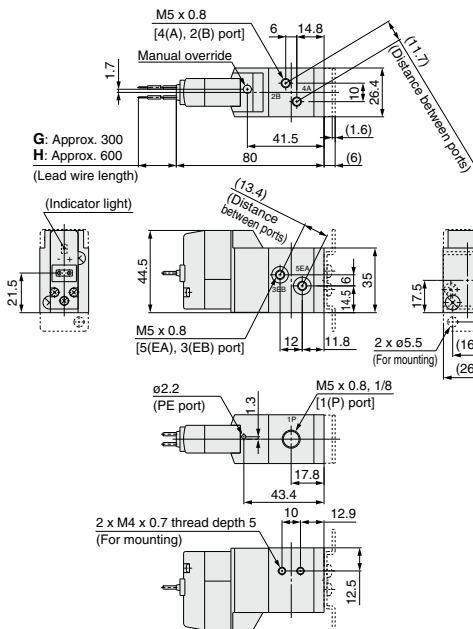
For V212 (DIN or Conduit type), the coil specifications and voltage (including light/surge voltage suppressor) cannot be changed by replacing the pilot valve assembly.

⚠ Caution

Tightening torque of the pilot valve assembly mounting screw
M2.5: 0.32 N·m

Pilot Operated 5 Port Solenoid Valve
Body Ported/Single Unit **VF1000/3000/5000 Series**

Grommet (G) (H): VF1120-^G_H1-M5(-F)



G: Approx. 300
H: Approx. 600
 (Lead wire length)

[illegible]

Approx. 300
(Lead wire length)

86.3

21.8

SEA 300

Technical drawing of the cable gland assembly. Dimensions and labels include:

- Max. 10 (Maximum cable O.D.)
- 86.8 (Total length)
- Applicable cable O.D. $\varnothing 4.5$ to $\varnothing 7$
- 84.5 (Height to top of gland)
- 75.5 (Height to bottom of gland)
- Pg9 (Gland rating)
- SEA (Sealed) and REB (Reinforced) markings on the cable gland.

Max. 10

89.2

Applicable cable O.D.
ø4.5 to ø7

(Indicator light)

Pg9

88.7 [78.7]

78.7 [68.7]

SEA 1000

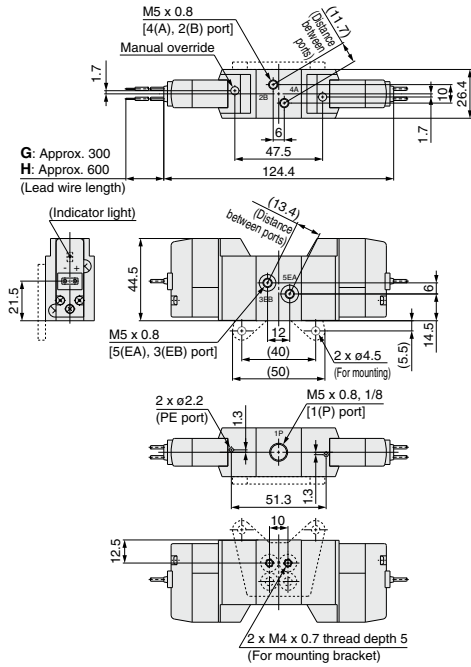


VF1000/3000/5000 Series

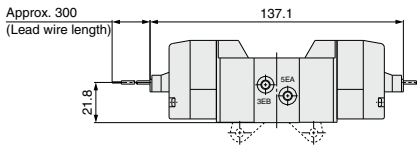
Dimensions: VF1000 Series/Body Ported

2-position double

Grommet (G) (H): VF1220-_H^G1-M5

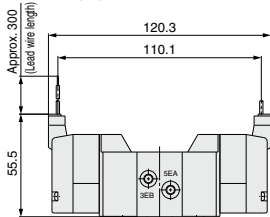


L-type plug connector (L): VF1220-□L□□1-M⁵₀₁□



Unless otherwise indicated, dimensions are the same as Grommet (G).

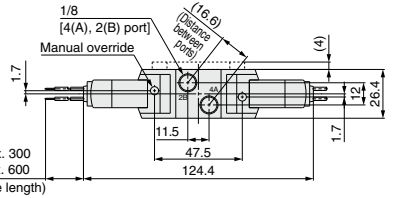
M-type plug connector (M): VF1220-□M□□1-M₀₁⁵□



Unless otherwise indicated, dimensions are the same as Grommet (G).

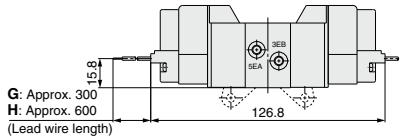
298

Grommet (G) (H): VF1220-_H^G1-01

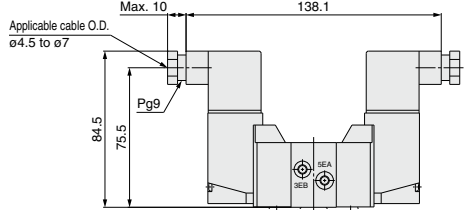


Grommet (G) (H)

DC without light/surge voltage suppressor

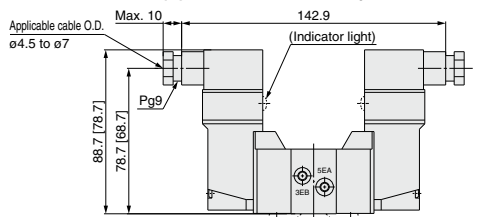


DIN terminal (D) (Y): VF1220-D1-M5₀₁



Unless otherwise indicated, dimensions are the same as Grommet (G).

Conduit terminal (T): VF1220-T1-^{M5}₀₁

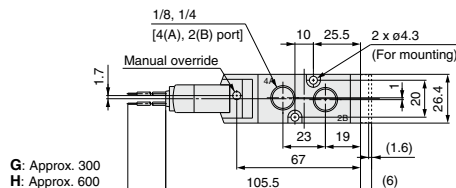


[]: Without indicator light
Unless otherwise indicated, dimensions are the same as Grommet (G).

Dimensions: VF3000 Series/Body Ported

2-position single

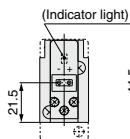
Grommet (G) (H): VF3130-□_G□_H□1.01□ (-F)



G: Approx. 300

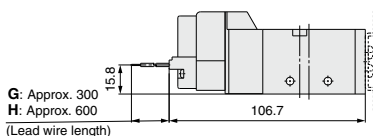
H: Approx. 600

(Lead wire length)



Grommet (G) (H)

DC without light/surge voltage suppressor

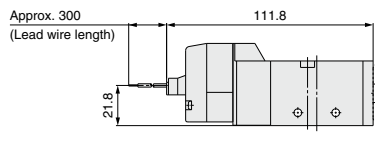


G: Approx. 300

H: Approx. 600

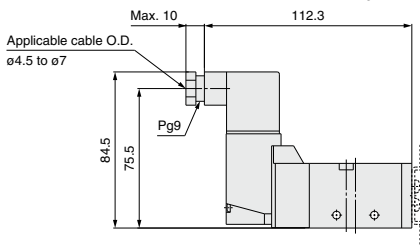
(Lead wire length)

L-type plug connector (L): VF3130-□L□□1.01□ (-F)



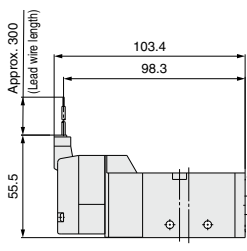
Unless otherwise indicated, dimensions are the same as Grommet (G).

DIN terminal (D) (Y): VF3130-□_D□_Y□1.01□ (-F)



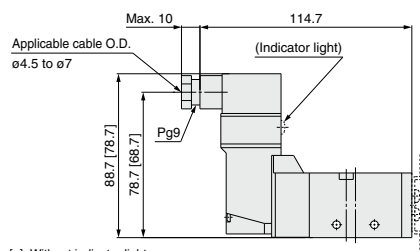
Unless otherwise indicated, dimensions are the same as Grommet (G).

M-type plug connector (M): VF3130-□M□□1.01□ (-F)



Unless otherwise indicated, dimensions are the same as Grommet (G).

Conduit terminal (T): VF3130-□T□□1.01□ (-F)



[] : Without indicator light

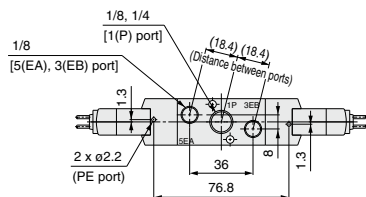
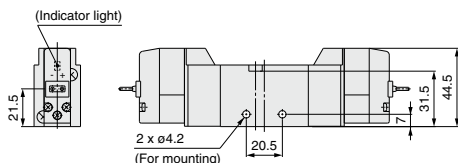
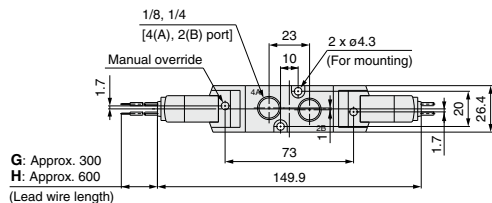
Unless otherwise indicated, dimensions are the same as Grommet (G).

VF1000/3000/5000 Series

Dimensions: VF3000 Series/Body Ported

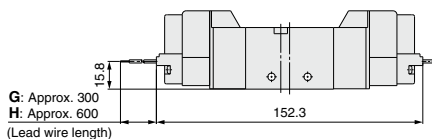
2-position double

Grommet (G) (H): VF3230-□^G□□1-⁰¹□₀₂□

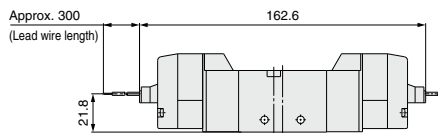


Grommet (G) (H)

DC without light/surge voltage suppressor

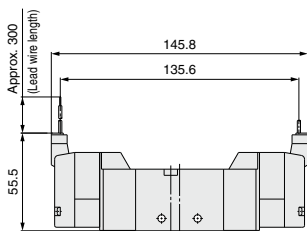


L-type plug connector (L): VF3230-□L□□1-⁰¹□₀₂□



Unless otherwise indicated, dimensions are the same as Grommet (G).

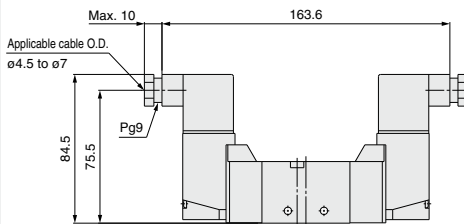
M-type plug connector (M): VF3230-□M□□1-⁰¹□₀₂□



Unless otherwise indicated, dimensions are the same as Grommet (G).

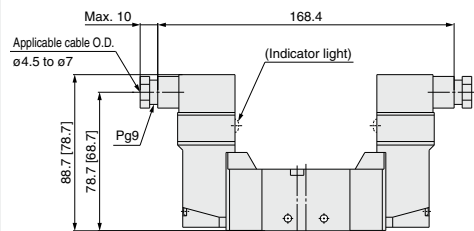
300

DIN terminal (D) (Y): VF3230-□^D□□1-⁰¹□₀₂□



Unless otherwise indicated, dimensions are the same as Grommet (G).

Conduit terminal (T): VF3230-□T□□1-⁰¹□₀₂□

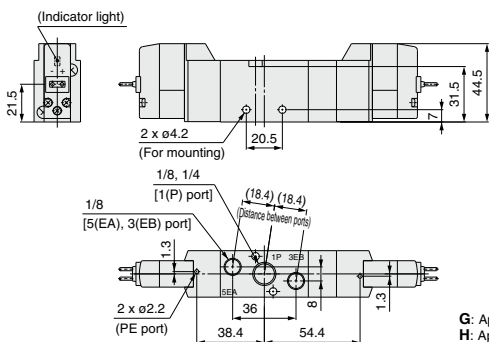
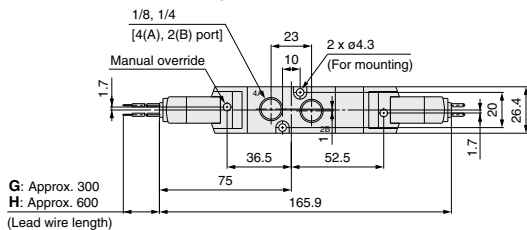


[]: Without indicator light

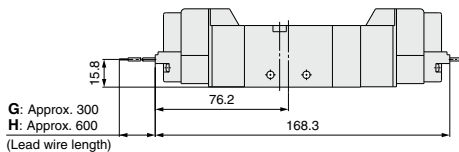
Unless otherwise indicated, dimensions are the same as Grommet (G).

3-position closed center/exhaust center/pressure center

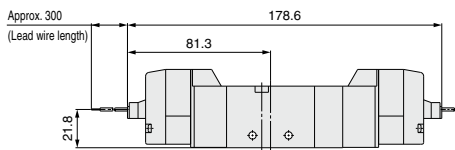
Grommet (G) (H): VF3₄³30-G1-⁰¹₀₂



Grommet (G) (H)
DC without light/surge voltage suppressor

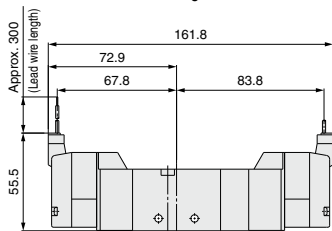


L-type plug connector (L): VF3³₄30-□L□□1-⁰¹₀₂□



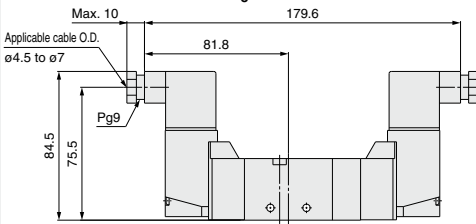
Unless otherwise indicated, dimensions are the same as Grommet (G).

M-type plug connector (M): VF³₅430-□M□□1-⁰¹₀₂□



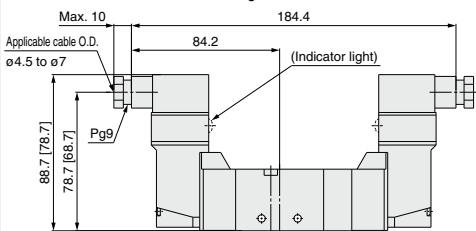
Unless otherwise indicated, dimensions are the same as Grommet (G).

DIN terminal (D) (Y): VF3³₄30-□^D_Y□□1-⁰¹₀₂□



Unless otherwise indicated, dimensions are the same as Grommet (G).

Conduit terminal (T): VF³₅30-□T□□1-⁰¹₀₂□



[]: Without indicator light
Unless otherwise indicated, dimensions are the same as Grommet (G).

VF1000/3000/5000 Series

Dimensions: VF5000 Series/Body Ported

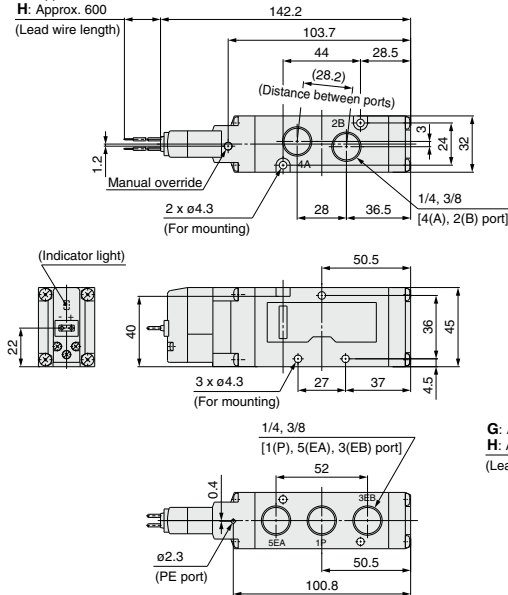
2-position single

Grommet (G) (H): VF5120-□^G□□1-02□₀₃

G: Approx. 300

H: Approx. 600

(Lead wire length)



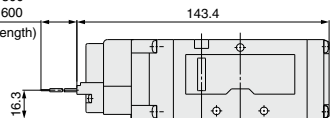
Grommet (G) (H)

DC without light/surge voltage suppressor

G: Approx. 300

H: Approx. 600

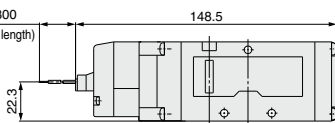
(Lead wire length)



L-type plug connector (L): VF5120-□^L□□1-02□₀₃

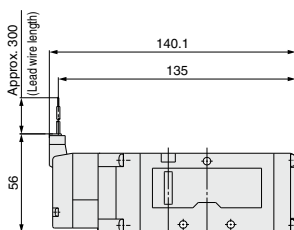
Approx. 300

(Lead wire length)



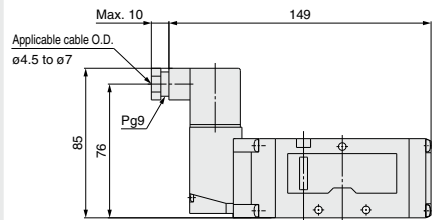
Unless otherwise indicated, dimensions are the same as Grommet (G).

M-type plug connector (M): VF5120-□^M□□1-02□₀₃



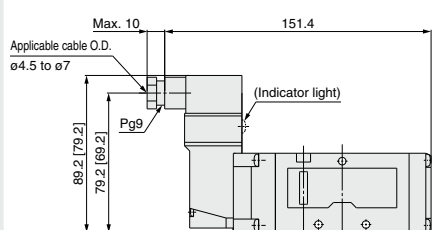
Unless otherwise indicated, dimensions are the same as Grommet (G).

DIN terminal (D) (Y): VF5120-□^D□□1-02□₀₃



Unless otherwise indicated, dimensions are the same as Grommet (G).

Conduit terminal (T): VF5120-□^T□□1-02□₀₃



[]: Without indicator light

Unless otherwise indicated, dimensions are the same as Grommet (G).

Dimensions: VF5000 Series/Body Ported

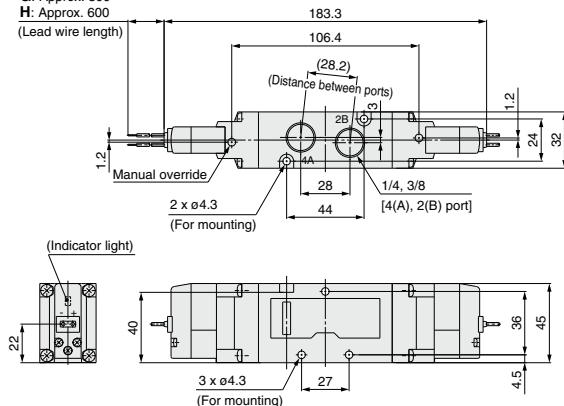
2-position double

Grommet (G) (H): VF5220-□^G□□1-02□₀₃

G: Approx. 300

H: Approx. 600

(Lead wire length)



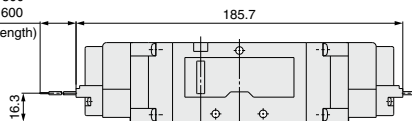
Grommet (G) (H)

DC without light/surge voltage suppressor

G: Approx. 300

H: Approx. 600

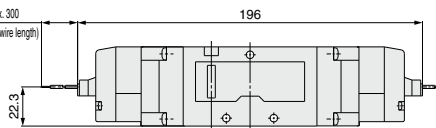
(Lead wire length)



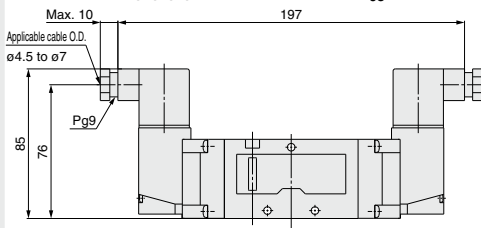
L-type plug connector (L): VF5220-□^L□□1-02□₀₃

Approx. 300

(Lead wire length)



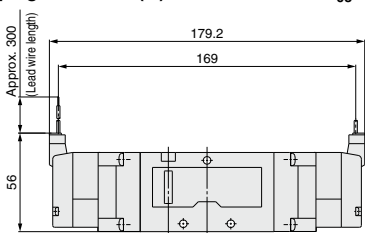
DIN terminal (D) (Y): VF5220-□^D□□1-02□₀₃



Unless otherwise indicated, dimensions are the same as Grommet (G).

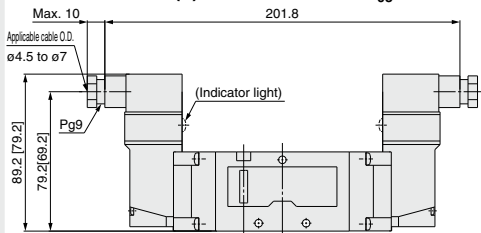
Unless otherwise indicated, dimensions are the same as Grommet (G).

M-type plug connector (M): VF5220-□^M□□1-02□₀₃



Unless otherwise indicated, dimensions are the same as Grommet (G).

Conduit terminal (T): VF5220-□^T□□1-02□₀₃



[]: Without indicator light

Unless otherwise indicated, dimensions are the same as Grommet (G).

VF1000/3000/5000 Series

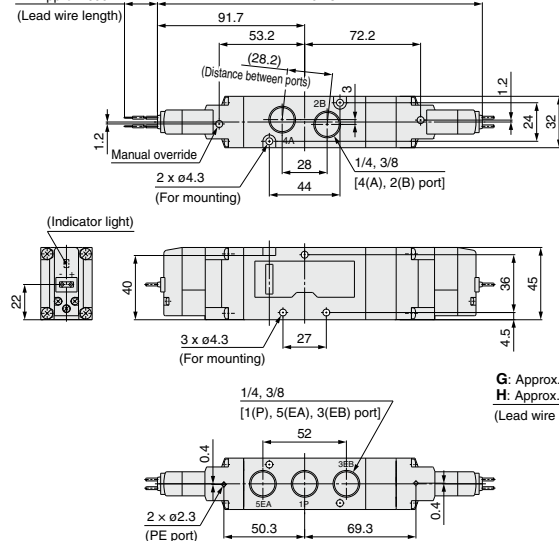
Dimensions: VF5000 Series/Body Ported

3-position closed center/exhaust center/pressure center

Grommet (G) (H): VF5³₄20-□□□1-02₀₃□

G: Approx. 300

H: Approx. 600



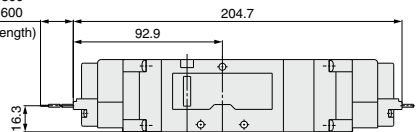
Grommet (G) (H)

DC without light/surge voltage suppressor

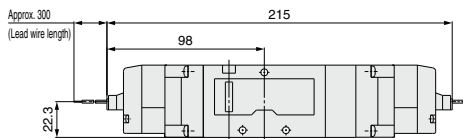
G: Approx. 300

H: Approx. 600

(Lead wire length)

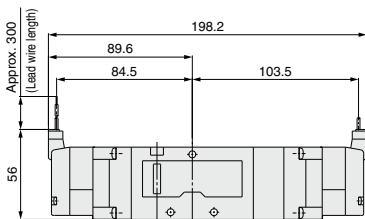


L-type plug connector (L): VF5³₄20-□□□1-02₀₃



Unless otherwise indicated, dimensions are the same as Grommet (G).

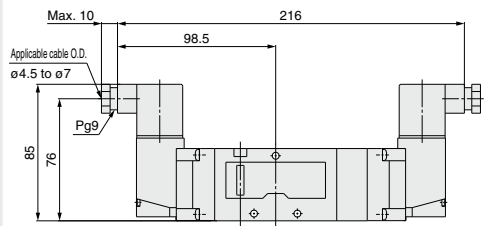
M-type plug connector (M): VF5³₄20-□□□1-02₀₃□



Unless otherwise indicated, dimensions are the same as Grommet (G).

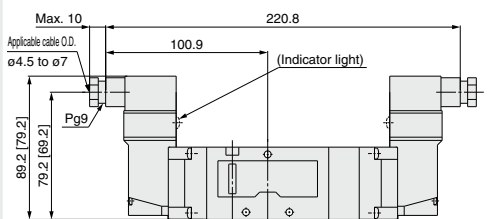
304

DIN terminal (D) (Y): VF5³₄20-□□□1-02₀₃□



Unless otherwise indicated, dimensions are the same as Grommet (G).

Conduit terminal (T): VF5³₄20-□□□1-02₀₃□



[]: Without indicator light

Unless otherwise indicated, dimensions are the same as Grommet (G).

VF1000/3000/5000 Series

Made to Order

Please contact SMC for detailed dimensions, specifications and lead times.



1 Body Ported Pilot Exhaust Port with Piping Thread (M3) Specification

In this specification, piping to the pilot exhaust port (PE port) is available when the valve is used in an environment where the exhaust from the pilot valve is not allowable, or intrusion of ambient dust should be prevented. Combination with low wattage specification is not possible.



How to Order Valve

VF **3** **3** 0 - 1 - - - - **X500**

Series

1	VF1000
3	VF3000
5	VF5000

Type of actuation

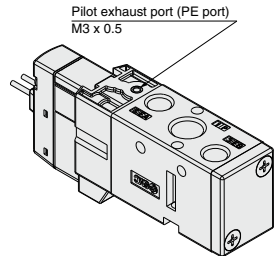
1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

Body model

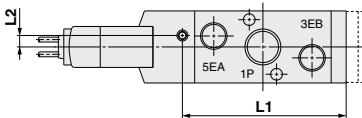
Symbol	VF1000	VF3000	VF5000
2	○	—	○
3	—	○	—

Note) Not available for the base mounted type.

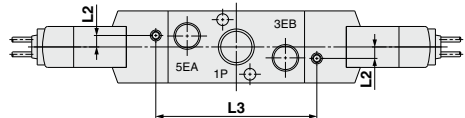
• Entry is the same as standard products.
The specifications and performance are the same as those of standard products.



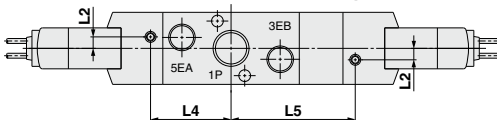
• 2-position single



• 2-position double



• 3-position closed center/exhaust center/pressure center



Series	L1	L2	L3	L4	L5
VF1000	34.5	4.2	33.4	—	—
VF3000	60	4.2	59	29.5	45.5
VF5000	95	3.45	89	44.5	63.5

2 TRIAC Output Specification

For AC type valve, use this specification when the pilot valve is not recovered even though valve power supply is turned OFF at the equipment using output unit with large leakage voltage over 8% of the rated voltage (TRIAC output such as PLC or SSR, etc.). Combination with low wattage specification is not possible. In addition, the -X600 is not compliant with UL standards.

How to Order Valve

VF **3** - 1 - - - - **X600**

Series

1	VF1000
3	VF3000
5	VF5000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

• Entry is the same as standard products.
Note) Rated voltage: AC type only

