Series VC
Direct Operated
2 Port Solenoid Valve for Water
Series VCW

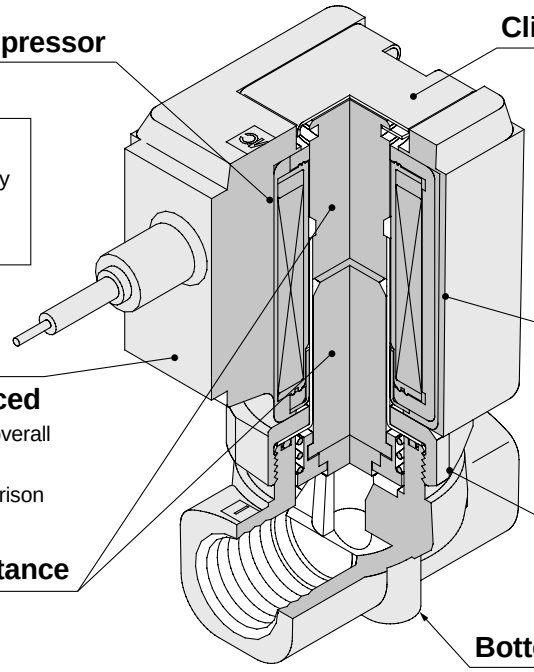
Multipurpose Valve for Water
Direct Operated 2 Port Solenoid Valve for Water
Series VCW

Improved durability (SMC comparison: Twice the life of previous series)

The internal wear of moving parts has been reduced through the use of a unique magnetic material. Service life, durability and corrosion resistance have been increased.

Large flow rate: N*l*/min 157 to 2061

Smaller size: Single valve –15% reduction in volume (Class 2)
Manifold length – Reduced by 18%
(Class 3 : 7 stations) (SMC comparison)



Internal surge voltage suppressor

Clip type

Internal rectifier circuit (AC)
- AC/DC switchover is possible by simply changing the coil
- Reduced noise

Quick change coils
Clip design makes coil replacement easy

Incombustibility UL94
Conforms to V-0

Miniaturized coil

Size and weight reduced
New compact coil reduces the overall size & weight of the valve

Volume –15%
Weight –20%
} SMC comparison (Class 2)

Threaded assembly
Simplifies maintenance

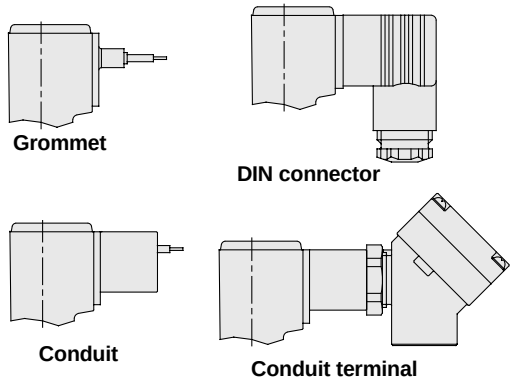
Improved corrosion resistance
Special materials introduced

Bottom mounting threads
Mounting bracket also available

A variety of wiring options
Grommet, DIN connector, Conduit, Conduit terminal

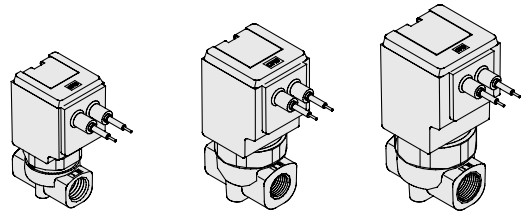
Wiring specifications

Wiring variations



Enclosure: Splash-proof (equivalent to IP65)

3 sizes available



VCW2 Class 2 | VCW3 Class 3 | VCW4 Class 4

Direct Operated 2 Port Solenoid Valve for Water

Series VCW

How to Order Valves (Single Type)

VC W 2 1 – 1 G – 2 – 02 □ – □ – Q

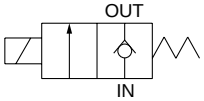
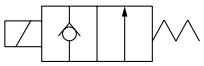
For water

When no symbol is shown for material and insulation type
- Body material: Brass
- Seal material: NBR
- Coil insulation: Class B

Series

2	Class 2
3	Class 3
4	Class 4

Valve type

1	N.C. OUT  IN
2	N.O. OUT  IN

Voltage

AC*

1	100VAC
2	200VAC
3	110VAC
4	220VAC
9	(Other, less than 250VAC)

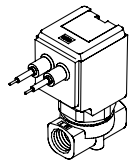
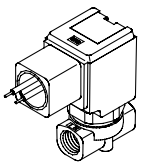
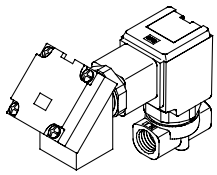
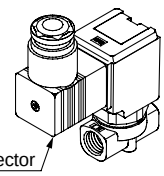
DC*

5	24VDC
6	12VDC
9	(Other, less than 50VDC)

* AC specifications are only for DIN terminal and conduit terminal type.

Order Made * Consult SMC regarding other voltages (9).

Electrical entry

G - Grommet	C - Conduit
	
T -With conduit terminal **TL-With conduit terminal/light**	**D -DIN connector** **DL-DIN connector with light** **DO-For DIN connector (without connector)**
	 Connector

* All are equipped with surge voltage suppressor.

Option. Foot bracket

Valve model	Port size	Bracket part no.
VCW2□	1/8, 1/4	VCW20-12-01
VCW3□	1/4, 3/8	VCW30-12-02
	1/2	VCW30-12-04
VCW4□	1/4, 3/8	VCW40-12-02
	1/2	VCW30-12-04
	3/4	VCW40-12-06

* Bracket material: Stainless steel

Material and insulation type

Symbol	Body material	Seal material	Coil insulation	Note
Nil	Brass	NBR	B	
A		FKM		
B		EPDM		
C		PTFE		
G	Stainless steel	NBR		
H		FKM		
J		EPDM		
K		PTFE		
L		FKM		For pure water Note)

Note) A high corrsion resistant specification is used for the core material.

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Port size

Symbol	Port size	Class 2	Class 3	Class 4
01	1/8 (6A)	○	–	–
02	1/4 (8A)	○	○	○
03	3/8 (10A)	–	○	○
04	1/2 (15A)	–	○	○
06	3/4 (20A)	–	–	○

Orifice size

Symbol	Orifice diameter	Class 2	Class 3	Class 4
2	ø2mm	○	–	–
3	ø3mm	○	○	○
4	ø4mm	○	○	○
5	ø5mm	○	○	○
7	ø7mm	–	○	○
10	ø10mm Note)	–	○	○

Note) ø10 is N.C. (normally closed) only.

* Refer to model selection on page 4.5-11 for orifice and port size

Standard Specifications

Valve specifications	**Valve construction**		Direct operated poppet
	Fluid Note 1)		Water, Pure water (except waste water or agricultural water)
	Withstand pressure MPa		5.0
	Body material		Brass, Stainless steel
	Seal material		NBR, FKM, EPDM, PTFE
	Ambient temperature °C		–20 to 60
	Fluid temperature °C		1 to 60 (with no freezing)
	Enclosure		Splash-proof (equivalent to IP65)
	Atmosphere		Location without corrosive or explosive gases
	Valve leakage cm³/min		0 (with water pressure)
	Mounting position		Unrestricted
Coil specifications	**Rated voltage**		24V, 12VDC, 100V, 110V, 200V, 220VAC (50/60Hz)
	Allowable voltage fluctuation		±10% of rated voltage
	Coil insulation type		Class B
	Power consumption	**DC**	VCW2: 6W, VCW3: 8W, VCW4: 11.5W
		AC 50/60Hz Note 2)	VCW2: 8.5VA, VCW3: 10VA, VCW4: 13VA

Note 1) When using pure water, select "L" for the type of material (stainless steel, FKM).
Note 2) Since a rectifier circuit is used for AC, there is no difference in power consumption for starting or holding.

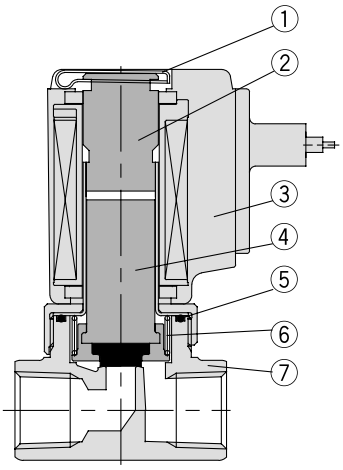
Characteristic Specifications

Model	Class	Port size Note 1)	Orifice diameter Note 1)	N.C. Max. operating pressure difference MPa	N.O. Max. operating pressure difference MPa	Effective area mm² (Nℓ/min)	Max. system pressure MPa	Weight kg Note 2)
VCW2	2	1/8 (6A) 1/4 (8A)	ø2	2.0	0.9	2.8 (157.04)	3.0	1/8: 0.21 1/4: 0.24
			ø3	0.8	0.45	5.9 (323.90)		
			ø4	0.5	0.25	9.2 (500.57)		
			ø5	0.3	0.15	11.7 (637.9)		
VCW3	3	1/4 (8A) 3/8 (10A) 1/2 (15A)	ø3	2.0	0.8	6.3 (343.53)	3.0	1/4: 0.42 3/8: 0.40 1/2: 0.49
			ø4	0.8	0.42	9.7 (530.11)		
			ø5	0.5	0.23	14.4 (785.2)		
			ø7	0.2	0.13	24.8 (1354)		
			ø10	0.1	–	37.8 (2061)		
VCW4	4	1/4 (8A) 3/8 (10A) 1/2 (15A) 3/4 (20A)	ø3	3.0	1.2	6.3 (343.53)	3.0	1/4: 0.58 3/8: 0.55 1/2: 0.62 3/4: 0.78
			ø4	1.3	0.73	10.8 (588.9)		
			ø5	0.7	0.47	15.3 (834.2)		
			ø7	0.3	0.22	24.8 (1354)		
			ø10	0.12	–	37.8 (2061)		

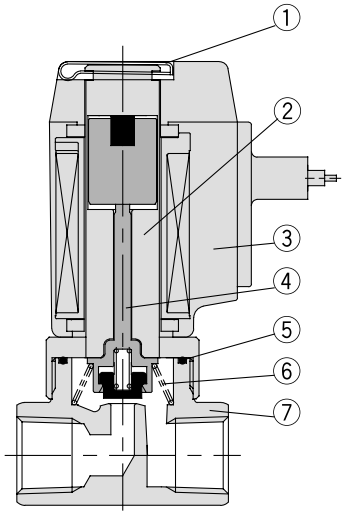
Note 1) Refer to model selection on page 4.5-11 regarding port size and orifice size combinations.
Note 2) The weight is the value for the grommet type.

Construction

N.C.



N.O.



Parts list

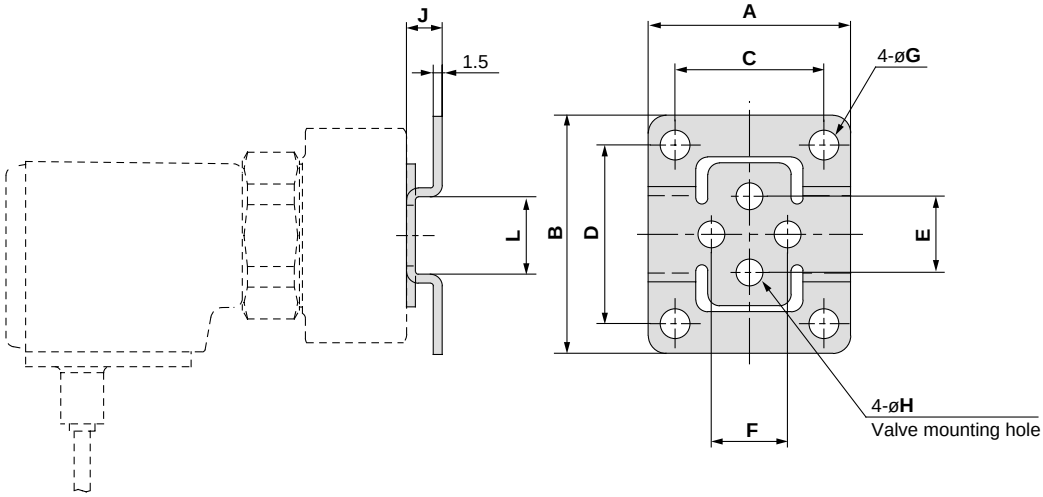
No.	Description	Material	
		Standard	Optional
1	**Clip**	Stainless steel	–
2	**Tube assembly**	Stainless steel	–
3	**Coil assembly**	Class B	–
4	**Armature assembly**	Class 2 Stainless steel, PPS, NBR Class $\frac{3}{4}$ Stainless steel, NBR	Stainless steel, NBR/Stainless steel, FKMStainless steel, EPDM/Stainless steel, PTFE
5	**O-ring**	NBR	FKM, EPDM, PTFE
6	**Return spring**	Stainless steel	–
7	**Body**	Brass	Stainless steel

Parts list

No.	Description	Material	
		Standard	Optional
1	**Clip**	Stainless steel	–
2	**Tube assembly**	Stainless steel, PTFE	–
3	**Coil assembly**	Class B	–
4	**Push rod assembly**	PPS, NBR	Stainless steel, NBR/Stainless steel, FKM, Stainless steel, EPDM/Stainless steel, PTFE
5	**O-ring**	NBR	FKM, EPDM, PTFE
6	**Return spring**	Stainless steel	–
7	**Body**	Brass	Stainless steel

VX
VN□
VQ
VDW
VC
LV
PA

Bracket Dimensions



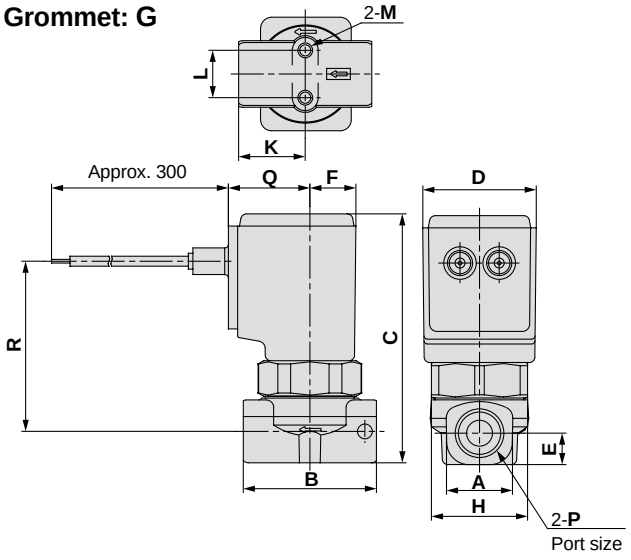
Bracket mounting dimensions

Valve model	Port size	Bracket part no.	A	B	C	D	E	F	G	H	J	L
VCW2□	1/8, 1/4	**VCW20-12-01A**	34	40	25	30	12.8	12.8	5	4.5	6	13
VCW3□	1/4, 3/8	**VCW30-12-02A**	42	52	30	40	19	19	6	5.5	7	19
	1/2	**VCW30-12-04A**	48	56	36	44	23	23	6	5.5	7	23
VCW4□	1/4, 3/8	**VCW40-12-02A**	42	52	30	40	23	23	6	5.5	7	19
	1/2	**VCW30-12-04A**	48	56	36	44	23	23	6	5.5	7	23
	3/4	**VCW40-12-06A**	56	65	44	53	28.2	28.2	6	5.5	7	26

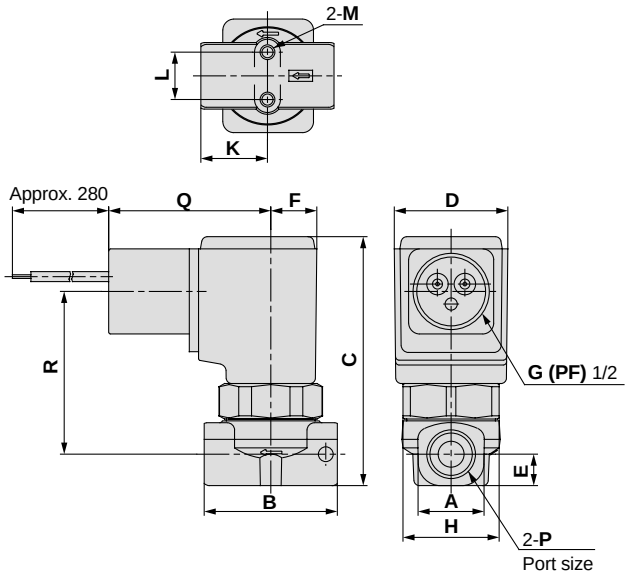
∗ Bracket material: Stainless steel

Dimensions (N.C.)

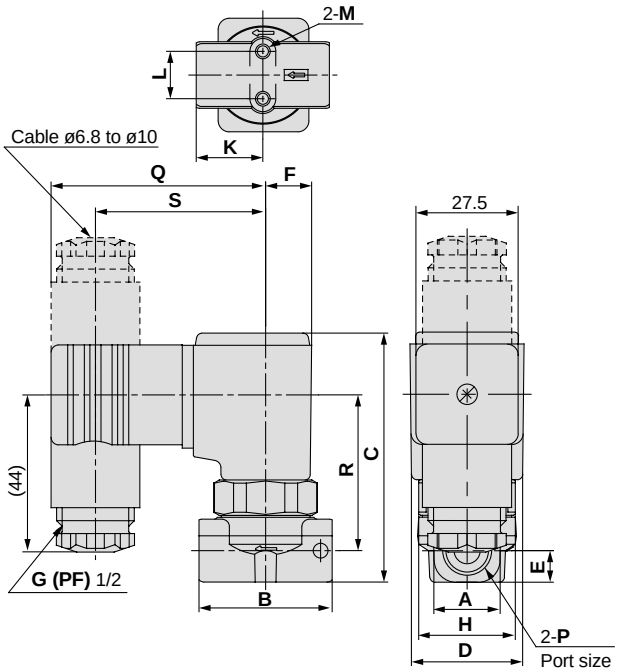
Grommet: G



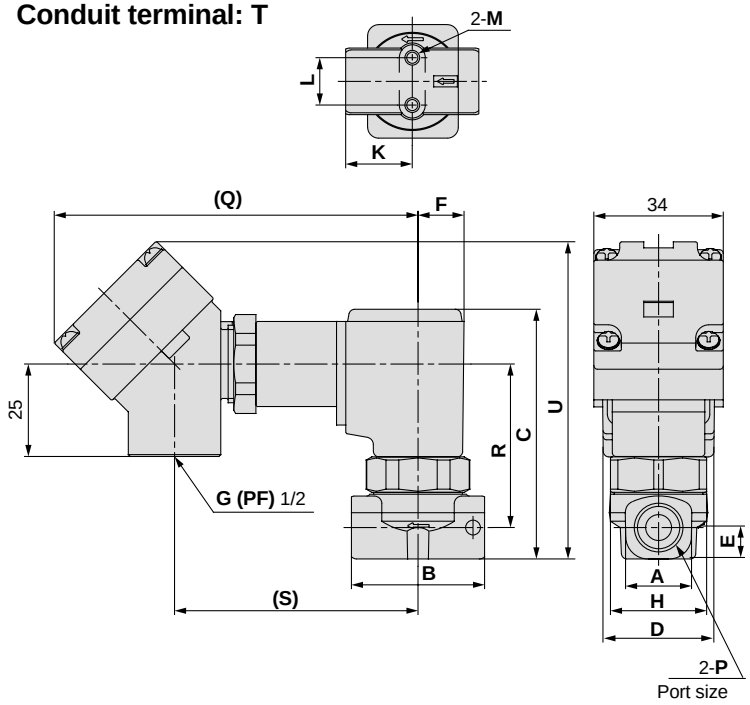
Conduit: C



DIN connector: D



Conduit terminal: T



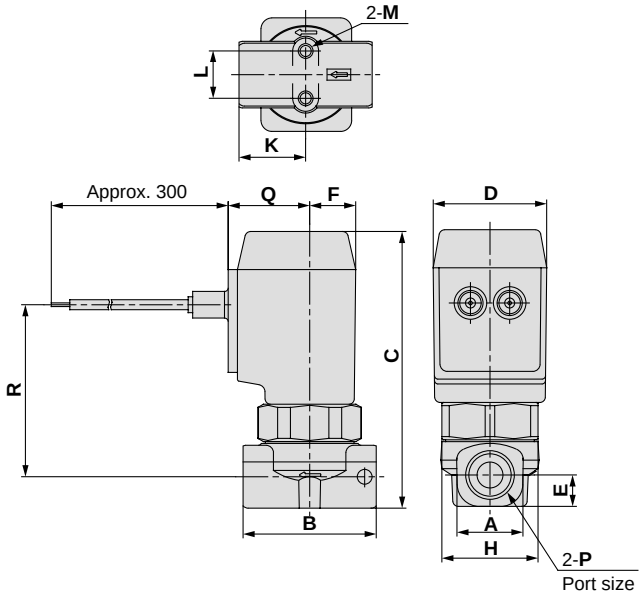
N.C.

(mm)

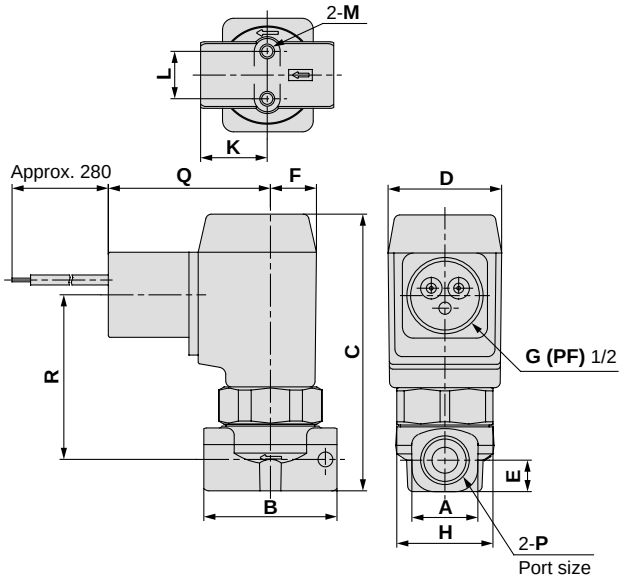
Model	P Port size	A	B	C	D	E	F	H	K	L	M	Electrical entry									
												Grommet: G		Conduit: C		DIN connector: D			Conduit terminal: T		
												Q	R	Q	R	Q	R	S	Q	R	S
VCW21	1/8	13.5	28	64	31	6.5	12.5	28	14	12.8	M4	22	45	44	43	58	40.5	46.5	99	43	66
	1/4	18	36	67	31	8.5	12.5	28	18	12.8	M4	22	46	44	44	58	41.5	46.5	99	44	66
VCW31	1/4, 3/8	22	40	80.5	36.5	11	15	32	20	19	M5	24	56.5	46	54.5	60	52	48.5	101	54.5	68
	1/2	30	50	85.5	36.5	13.5	15	32	25	23	M5	24	59	46	57	60	54.5	48.5	101	57	68
VCW41	1/4, 3/8	22	45	89	41	11	17	36	22.5	23	M5	26	64.5	48	62.5	62	60	50.5	103	62.5	70
	1/2	30	50	93.5	41	13.5	17	36	25	23	M5	26	66.5	48	64.5	62	62	50.5	103	64.5	70
	3/4	35	60	101	41	17.5	17	36	30	28.2	M5	26	70	48	68	62	65.5	50.5	103	68	70

Dimensions (N.O.)

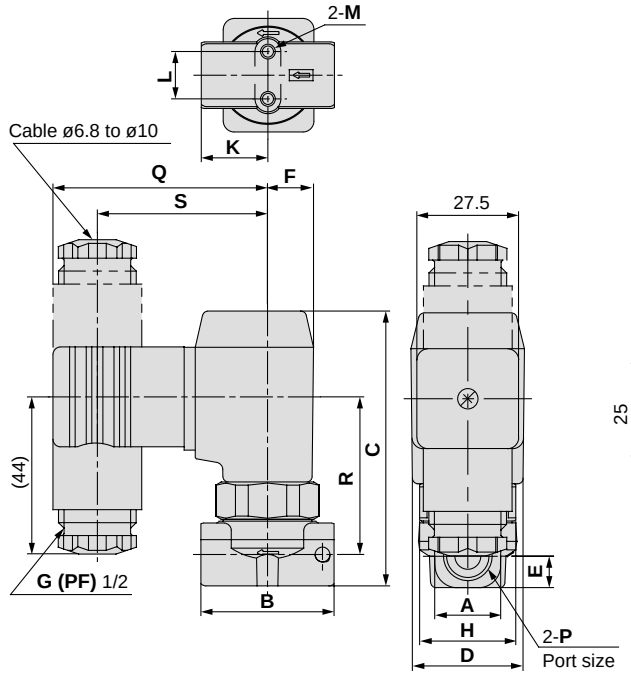
Grommet: G



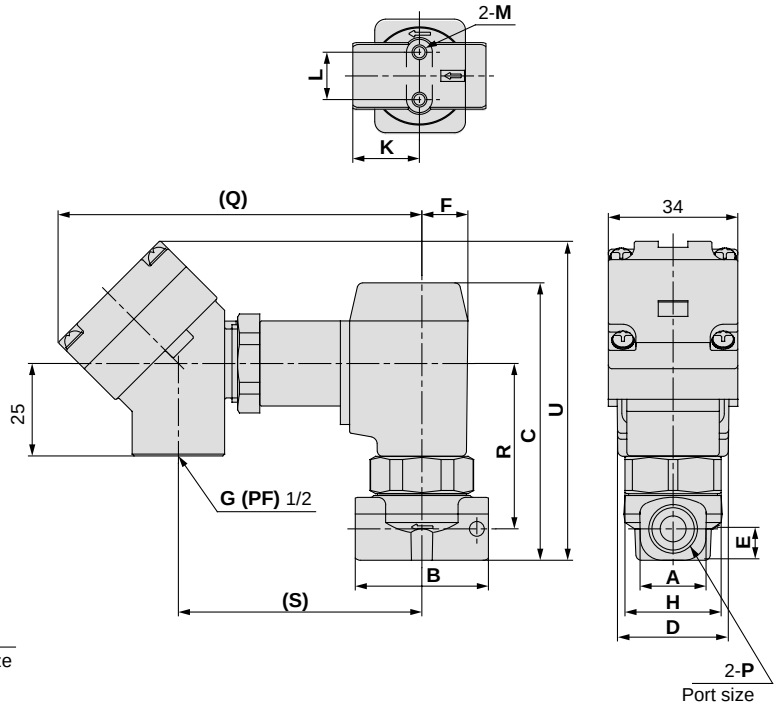
Conduit: C



DIN connector: D



Conduit terminal: T



N.O.

(mm)

Model	P Port size	A	B	C	D	E	F	H	K	L	M	Electrical entry									
												Grommet: G		Conduit: C		DIN connector: D			Conduit terminal: T		
												Q	R	Q	R	Q	R	S	Q	R	S
VCW22	1/8	13.5	28	71.5	31	6.5	12.5	28	14	12.8	M4	22	45.5	44	43.5	58	41	46.5	99	43.5	66
	1/4	18	36	74.5	31	8.5	12.5	28	18	12.8	M4	22	46.5	44	44.5	58	42	46.5	99	44.5	66
VCW32	1/4, 3/8	22	40	88	36.5	11	15	32	20	19	M5	24	57	46	55	60	52.5	48.5	101	55	68
	1/2	30	50	93	36.5	13.5	15	32	25	23	M5	24	59.5	46	57.5	60	55	48.5	101	57.5	68
VCW42	1/4, 3/8	22	45	96.5	41	11	17	36	22.5	23	M5	26	65	48	63	62	60.5	50.5	103	63	70
	1/2	30	50	101	41	13.5	17	36	25	23	M5	26	67	48	65	62	62.5	50.5	103	65	70
	3/4	35	60	108.5	41	17.5	17	36	30	28.2	M5	26	70.5	48	68.5	62	66	50.5	103	68.5	70

How to Order Manifolds

VV2C W 2 □ 02 01 □

For water
Manifold material: Brass

Series

2	Class 2
3	Class 3
4	Class 4

Material

Symbol	Material
Nil	Brass
S	Stainless steel

Stations

02	2 stations
:	:
10	10 stations

∗ Refer to the L dimension table on page 4.5-9 regarding the maximum number of stations.

Thread type

Symbol	Thread type
Nil	Rc
N	NPT
T	NPTF
F	G

OUT port size

Symbol	Port size
01	1/8 (6A)
02	1/4 (8A)

∗ All IN ports are 3/8.

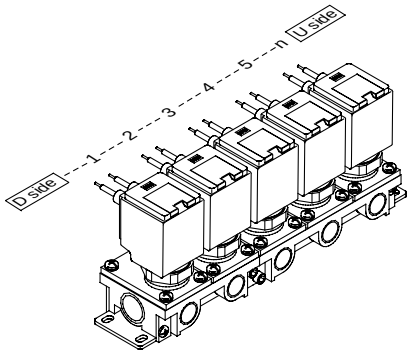
How to Order Manifold Assemblies (Example)

Enter the valve and option models to be mounted under the manifold base part number.

<Example>

VV2CW2-0501 …… 1 set Manifold part no.
VCW23-5G-2- Q ……..5 sets Valve part no. (Stations 1 to 5)

Enter together in order, counting from station 1 on the D side.



How to Order Valves (for Manifold)

VC W 2 3 1 G 2 □ Q

For water
- Body material: Brass
- Seal material: NBR
- Coil insulation: Class B

Series

2	Class 2
3	Class 3
4	Class 4

Valve type

3	N.C. for manifold
4	N.O. for manifold

Voltage

AC∗

1	100VAC
2	200VAC
3	110VAC
4	220VAC
9	(Other, less than 250VAC)

DC∗

5	24VDC
6	12VDC
9	(Other, less than 50VDC)

∗ AC specifications are only for DIN terminal and conduit terminal type.

Order Made ∗ Consult SMC regarding other voltages (9).

Material and insulation type

Symbol	Body material	Seal material	Coil insulation	Note
Nil	Brass	NBR	B	
A		FKM		
B		EPDM		
C		PTFE		
G	Stainless steel	NBR		
H		FKM		
J		EPDM		
K		PTFE		
L		FKM		Note) For pure water

Note) A high corrosion resistant specification is used for the core.

Electrical entry

G	Grommet
C	Conduit
T	Conduit terminal
TL	Conduit terminal with light
D	DIN connector
DL	DIN connector with light
DO	For DIN connector (without connector)

∗ All are equipped with surge voltage suppressor.

Orifice size

Symbol	Orifice diameter	Class 2	Class 3	Class 4
2	ø2mm	○	–	–
3	ø3mm	○	○	○
4	ø4mm	○	○	○
5	ø5mm	○	○	○
7	ø7mm	–	○	○

Manifold Options

Blanking plate assembly

VVCW 2 0 − 3A − C

Series

2	Class 2
3	Class 3
4	Class 4

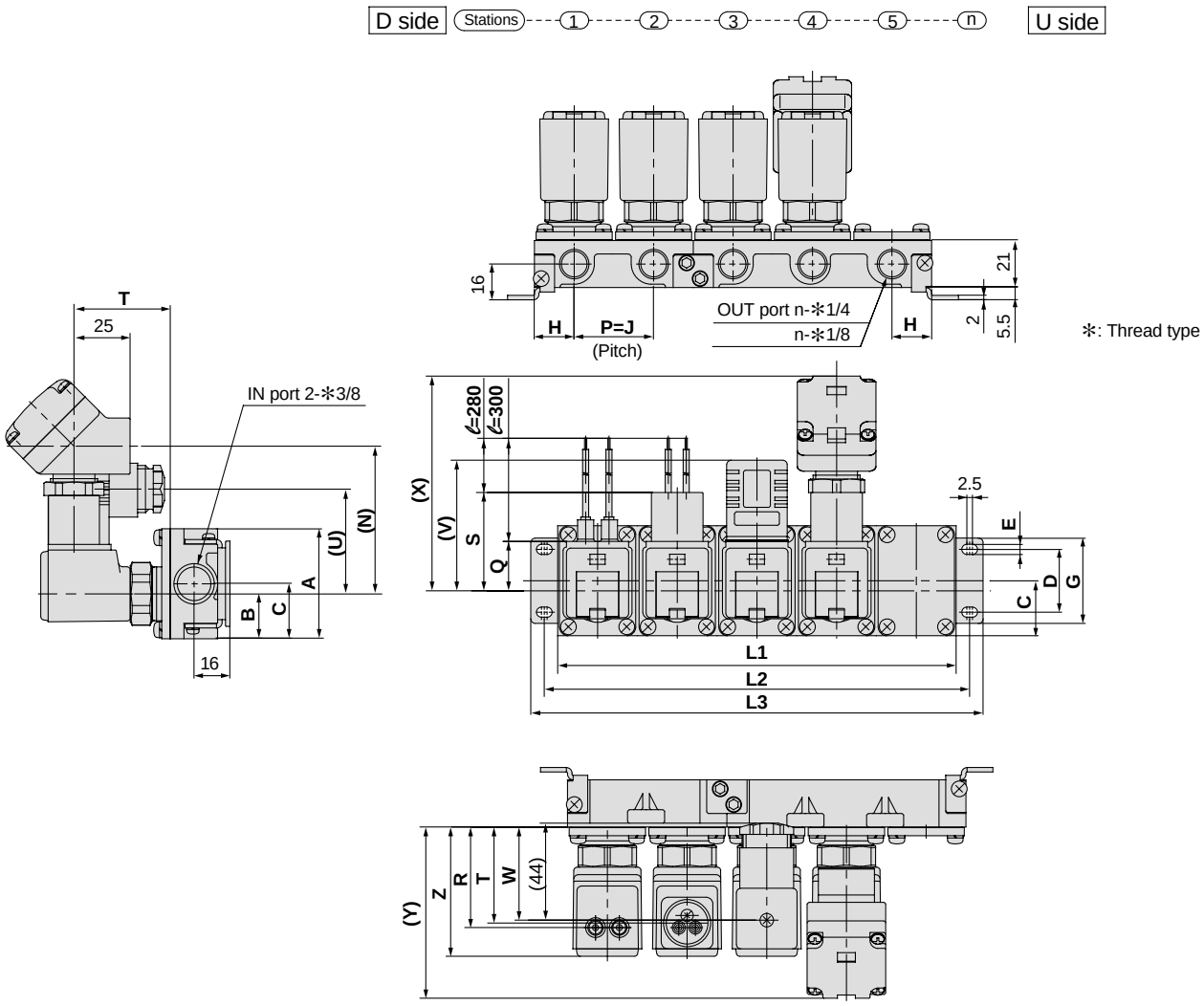
This is used by mounting it on the manifold block when a valve is removed for maintenance, or when the mounting of an additonal valve is planned, etc.

Material and insulation type

Symbol	Plate material	Seal material
Nil	Brass	NBR
A		FKM
B		EPDM
C		PTFE
G	Stainless steel	NBR
H		FKM
J		EPDM
K		PTFE
L		FKM

JIS symbol

Dimensions (N.C.)



L dimensions

(mm)

Model	Dimension	n (stations)								
		2	3	4	5	6	7	8	9	10
VV2CW2	L1	69	103.5	138	172.5	207	241.5	276	310.5	345
	L2	81	115.5	150	184.5	219	253.5	288	322.5	357
	L3	93	127.5	162	196.5	231	265.5	300	334.5	369
VV2CW3	L1	77	115.5	154	192.5	231	269.5	308	346.5	385
	L2	89	127.5	166	204.5	243	281.5	320	358.5	397
	L3	101	139.5	178	216.5	255	293.5	332	370.5	409
VV2CW4	L1	83	124.5	166	207.5	249	290.5	332	373.5	415
	L2	95	136.5	178	219.5	261	302.5	344	385.5	427
	L3	107	148.5	190	231.5	273	314.5	356	397.5	439
Manifold composition		2stns. x 1	3stns. x 1	2stns. x 2	2stns. + 3 stns.	3stns. x 2	2stns. x 2 + 3stns.	2stns. + 3stns. x 2	3stns. x 3	2stns. x 2 + 3stns. x 2

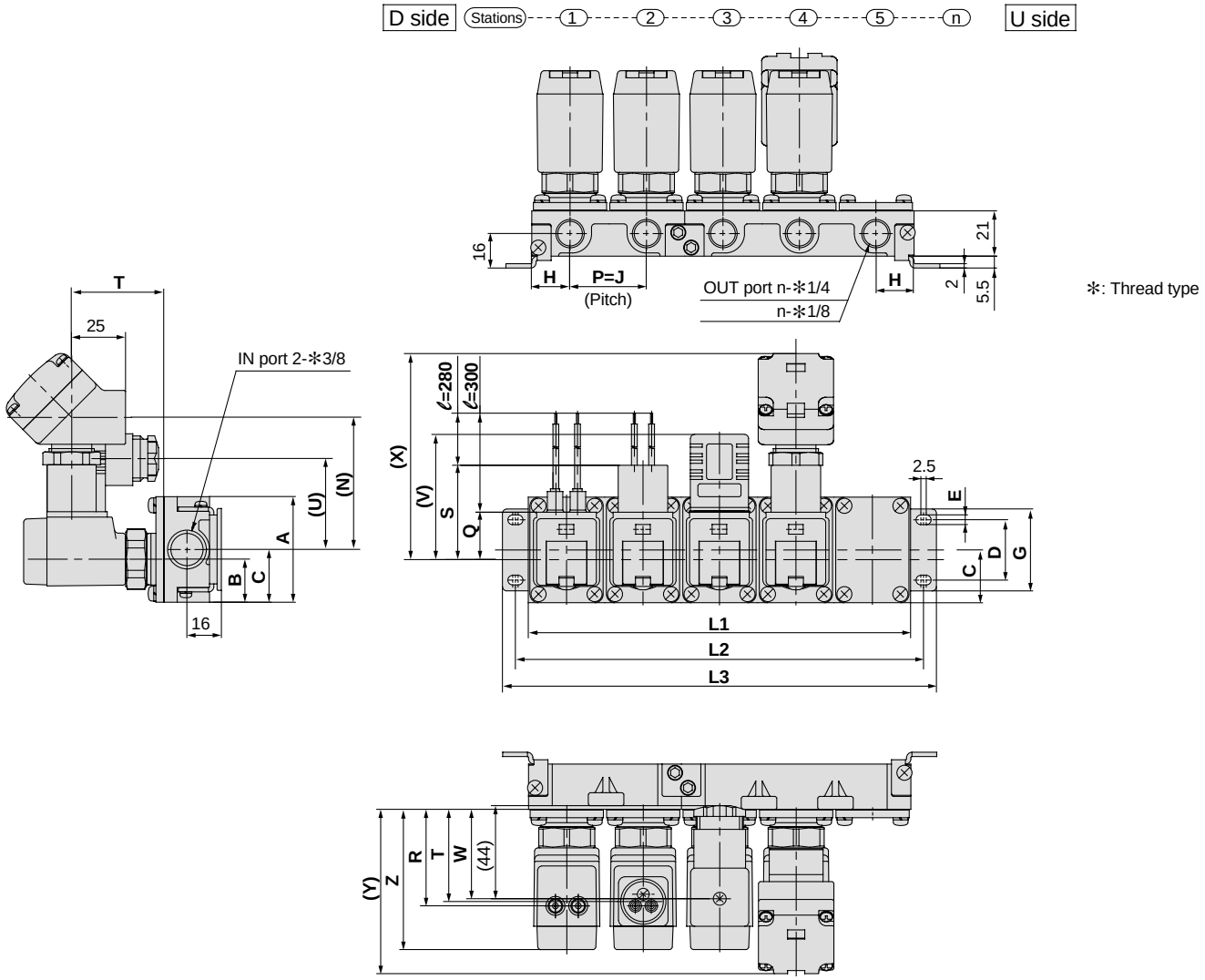
Note) Manifold bases are composed by connecting 2 station and 3 station bases.

Dimensions

(mm)

Model	A	B	C	D	E	G	H	J	Z	Electrical entry									
										Grommet		Conduit		DIN connector			Conduit terminal		
										Q	R	S	T	U	V	W	N	X	Y
VV2CW2	49	20	24.5	28	4.5	38	17.3	34.5	58	22	45.5	44	43.5	46	58	41.5	66	99	77
VV2CW3	57	25.5	28.5	30	5.5	42	19.3	38.5	68	24	55	45.5	53	48	60	51	68	101	86.5
VV2CW4	57	25.5	28.5	30	5.5	42	20.8	41.5	76	26	62.5	47.5	60.5	50	62	58.5	70	103	94

Dimensions (N.O.)



L dimensions

(mm)

Model	Dimension	n (stations)								
		2	3	4	5	6	7	8	9	10
VV2CW2	**L1**	69	103.5	138	172.5	207	241.5	276	310.5	345
	L2	81	115.5	150	184.5	219	253.5	288	322.5	357
	L3	93	127.5	162	196.5	231	265.5	300	334.5	369
VV2CW3	**L1**	77	115.5	154	192.5	231	269.5	308	346.5	385
	L2	89	127.5	166	204.5	243	281.5	320	358.5	397
	L3	101	139.5	178	216.5	255	293.5	332	370.5	409
VV2CW4	**L1**	83	124.5	166	207.5	249	290.5	332	373.5	415
	L2	95	136.5	178	219.5	261	302.5	344	385.5	427
	L3	107	148.5	190	231.5	273	314.5	356	397.5	439
Manifold composition		2stns. x 1	3stns. x 1	2stns. x 2	2stns. + 3stns.	3stns. x 2	2stns. x 2 + 3stns.	2stns. + 3stns. x 2	3stns. x 3	2stns. x 2 + 3stns. x 2

Note) Manifold bases are composed by connecting 2 station and 3 station bases.

Dimensions

(mm)

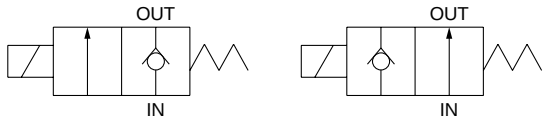
Model	A	B	C	D	E	G	H	J	Z	Electrical entry									
										Grommet		Conduit		DIN connector			Conduit terminal		
										Q	R	S	T	U	V	W	N	X	Y
VV2CW2	49	20	24.5	28	4.5	38	17.3	34.5	65.5	22	45.5	44	43.5	46	58	41.5	66	99	77
VV2CW3	57	25.5	28.5	30	5.5	42	19.3	38.5	75.5	24	55	45.5	53	48	60	51	68	101	86.5
VV2CW4	57	25.5	28.5	30	5.5	42	20.8	41.5	83.5	26	62.5	47.5	60.5	50	62	58.5	70	103	94

Series VCW
Model Selection

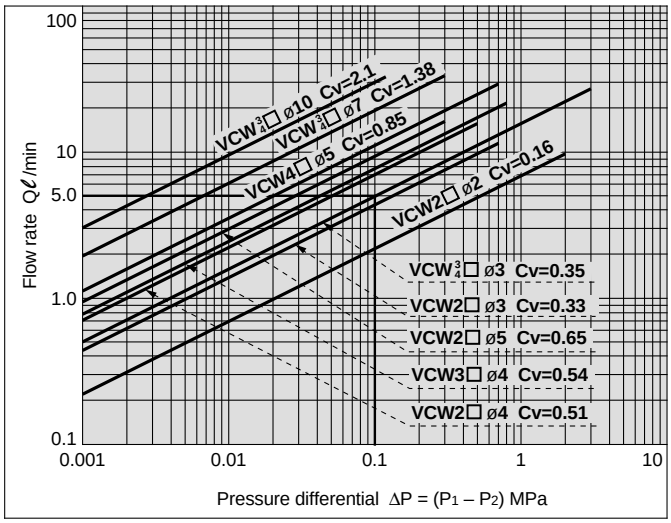
VCW (for water) 2 port solenoid valve (N.C., N.O.)

Model	Material		Class	Port size	Orifice diameter					
	Body	Seal			ø2	ø3	ø4	ø5	ø7	Note 1) ø10
VCW (for water) 2 port solenoid valve	Brass (Stainless steel)	NBR (FKM) (EPDM) (PTFE)	2	1/8 (6A)	●	●	●	●	–	–
				1/4 (8A)	●	●	●	●	–	–
			3	1/4 (8A)	–	●	●	●	●	–
				3/8 (10A)	–	●	●	●	●	●
				1/2 (15A)	–	–	–	–	–	●
			4	1/4 (8A)	–	●	●	●	●	–
				3/8 (10A)	–	●	●	●	●	●
				1/2 (15A)	–	–	–	–	–	●
				3/4 (20A)	–	–	–	–	–	●

Note 1) ø10 is N.C. (normally closed) only.



N.C. **N.O.**



How to read the graph

When a water flow of 5ℓ/min is desired with a pressure differential of 0.1MPa, an effective area with a Cv factor of 0.35 (VCW$\frac{3}{4}$□ø3) is required.

How to find the flow rate for water

- Formula based on Cv factor
  $Q=14.2 \cdot Cv \cdot \sqrt{10.2 \cdot \Delta P}$ … ℓ/min
- Formula based on effective area (Smm^2)
  $Q=0.8 \cdot S \cdot \sqrt{10.2 \cdot \Delta P}$ …… ℓ/min

Q : Flow rate (ℓ/min)
ΔP: Pressure differential ($P_1 - P_2$)
P_1 : Upstream pressure (MPa)
P_2 : Downstream pressure (MPa)
S : Effective area (mm^2)
Cv: Cv factor

Explanation of Terminolgy

Pressure Terminology

1. Maximum operating pressure differential

This indicates the maximum pressure differential (upstream pressure and downstream pressure differential) which can be allowed for operation with the valve closed or open. When the downstream pressure is 0MPa, this becomes the maximum operating pressure.

2. Maximum system pressure

This indicates the limit of pressure that can be applied inside the pipelines. (line pressure)

(The pressure differential of the solenoid valve unit must be less than the maximum operating pressure differential.)

3. Withstand pressure

The pressure which must be withstood without a drop in performance after returning to the operating pressure range. (value under the prescribed conditions)

Electrical Terminology

1. Surge voltage

A high voltage which is momentarily generated in the shut-off unit by shutting off the power.

Other

1. Materials

NBR: Nitrile rubber

FKM: Fluoro rubber – Trade names: Viton®, Dai-el, etc.

EPDM: Ethylene propylene rubber = EPR

PTFE: Tetrafluoroethylene resin – Trade names: Teflon®, Polyflon. etc.

2. Symbols

In the JIS symbol (⧄) IN and OUT are in a blocked condition (⫟), but actually in the case of reverse pressure (OUT>IN), there is a limit to the blocking. (⧄) is used to indicate that blocking of reverse pressure is not possible.

Series VCW
2 Port Solenoid Valve for Fluid Control
Be sure to read before handling.

Wiring

⚠Caution

1. As a rule, use electrical wire of 0.5 to 1.25mm² or larger for wiring.
Further, do not allow excessive force to be applied to the lines.

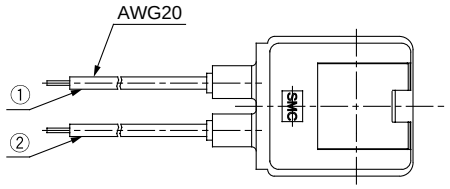
2. Use electrical circuits which do not generate chattering in their contacts.

3. Use voltage which is within ±10% of the rated voltage. In cases with a DC power supply where importance is placed on responsiveness, stay within ±5% of the rated value. The voltage drop is the value in the lead wire section connecting the coil.

Electrical Connections

⚠Caution

Grommet/Conduit

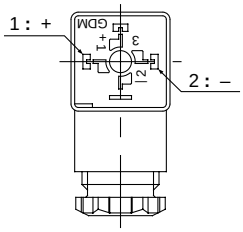


Rated voltage	Lead wire color	
	①	②
DC	Black	Red

∗ DC does not have polarity.

DIN connector

Since internal connections are as shown below for the DIN connector, make connections to the power supply accordingly.

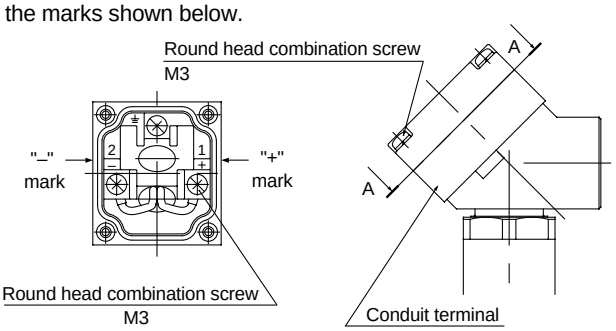


Terminal No.	1	2
DIN terminal	+	–

∗ There is polarity only when equipped with light.

Conduit terminal

In the case of the conduit terminal, make connections according to the marks shown below.



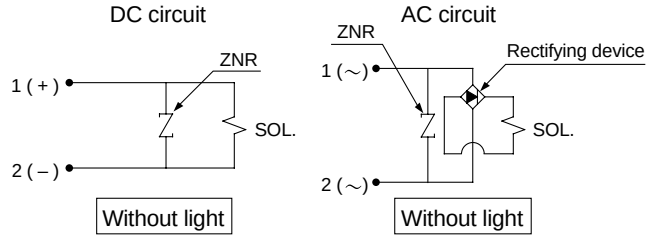
View A-A
(Internal connection diagram)

∗ There is polarity only when equipped with light.

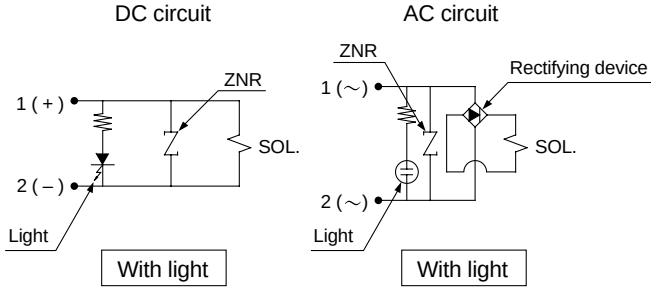
Electrical Circuits

⚠Caution

Grommet, Conduit, Conduit terminal, DIN connector



Conduit terminal, DIN connector



Operating Environment

⚠ Warning

1. **Do not use valves in atmospheres of corrosive gases, chemicals, salt water, water or steam, or where there is direct contact with same.**
2. **Do not use in an explosive atmosphere.**
3. **Do not use in locations subject to vibration or impact.**
4. **Do not use in a location where radiated heat will be received from a heat source in the vicinity.**
5. **Employ suitable protective measures in locations where there is contact with water droplets, oil or welding spatter, etc.**

Maintenance

⚠ Warning

1. **Maintenance should be performed in accordance with the procedures in the instruction manual.**
   If handled improperly, this can cause damage or malfunction in equipment and devices, etc.
2. **Demounting of the product**
   1. Shut off the fluid supply and release the fluid pressure in the system.
   2. Shut off the power supply.
   3. Demount the product.
3. **Low frequency operation**
   Valves should be switched at least once every 30 days to prevent malfunction.

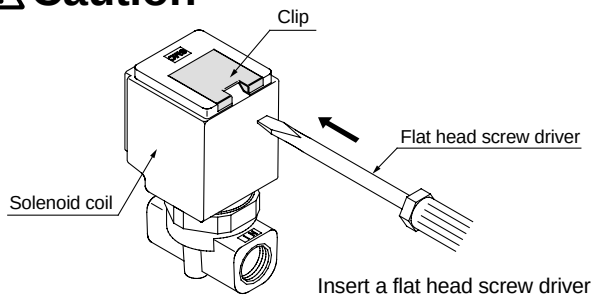
⚠ Caution

1. **Filters and strainers**
   1. Be careful regarding clogging of filters and strainers.
   2. Replace filters after one year of use, or earlier if the amount of pressure drop reaches 0.1MPa.
   3. Replace strainers when the amount of pressure drop reaches 0.1MPa.
   4. Flush drainage from filters regularly.
2. **Storage**
   In case of long term storage after use with water, first thoroughly remove all moisture to prevent rust and deterioration of rubber materials, etc.

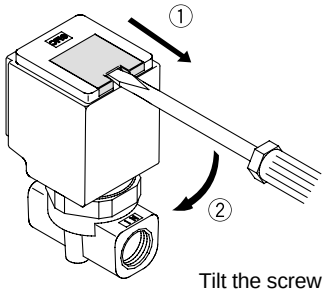
Series VCW
Specific Product Precautions
Be sure to read before handling.

How to Replace the Solenoid Coil

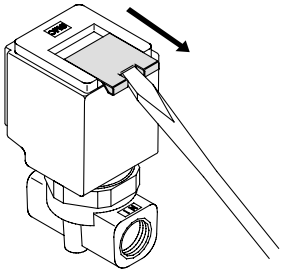
⚠ Caution

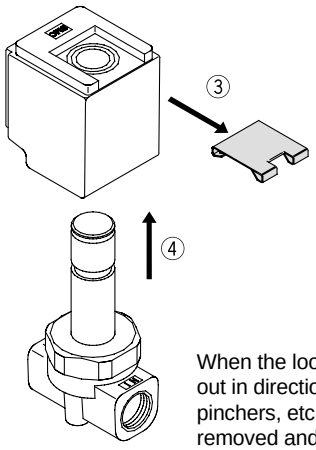


Insert a flat head screw driver into the hook section of the clip groove.



Tilt the screw driver down in direction ② so that the clip slides out in direction ①.





When the loosened clip is pulled out in direction ③ using pinchers, etc., the coil can be removed and replaced in direction ④ .

After replacing the coil, the clip is reinstalled by pushing it back in the direction opposite to its removal.

Replacement Parts

Solenoid coil part number

VCW | **20** | **1** | **G** | ☐

Series

20	Class 2
30	Class 3
40	Class 4

Voltage

1	100VAC
2	200VAC
3	110VAC
4	220VAC
5	24VDC
6	12VDC

Electrical entry

G	Grommet
D	DIN connector
DL	DIN connector with light
DO	For DIN connector (without connector)
C	Conduit
T	Conduit terminal
TL	Conduit terminal with light

Lead wire length

Nil	300mm
L1	600mm
L2	1000mm
L3	1500mm
L4	3000mm

Clip part number

AZ-T-VCW How to Order Valves → Page 4.5-3 Valve model
Page 4.5-8 Valve model

Note) Indicate the valve model, as a name plate is attached to the clip.