

Coolant Valve

Series SGC



How to Order



Made to order specifications
(For details, refer to page 389)

External pilot
solenoid

SGC **2** **2** **1** **A** - **05** **10** **Y** - **1** **T** **Z** - - **A** - -

Air
operated

SGCA **2** **2** **1** **A** - **05** **10** - - **A** - -

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮

① Series

2	SGC200
3	SGC300
4	SGC400

② Valve type

1	Normally closed
2	Normally open

③ Seal material

A	NBR
B	FKM

④ Pressure range

05	Pressure range 0 to 0.5 MPa
10	Pressure range 0 to 1 MPa
16	Pressure range 0 to 1.6 MPa

⑤ Thread type

Nil	Rc
G	G (ISO1179-1)
N	NPT
T	NPTF

⑥ Port size

10	3/8	SGC200
15	1/2	
20	3/4	SGC300
25	1	SGC400

⑦ Pilot valve

Y V116

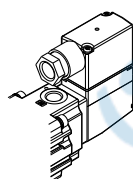
⑧ Rated voltage

1	100 VAC 50/60 Hz
2	200 VAC 50/60 Hz
3	110 VAC [115 VAC] 50/60 Hz
4	220 VAC [230 VAC] 50/60 Hz
5	24 VDC
6	12 VDC

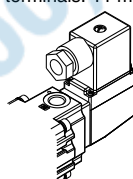
Note) Refer to the back of page 394 when using with energization for long periods of time.

⑨ Electrical entry

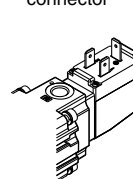
T: Conduit terminal



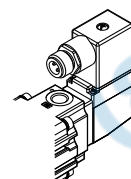
D: DIN terminal (Pitch between the terminals: 11 mm)



DO: DIN terminal without connector



W: M12 connector Note)



Note 1) Cable is not included. Order it separately after referring to the options on page 379.
Note 2) Refer to the table (1) below for combinations with light/surge voltage suppressors.

⑩ Light / surge voltage suppressor

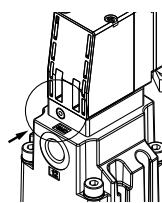
Nil	None
S	With surge voltage suppressor
Z	With light / surge voltage suppressor

Note) Refer to Table (1) below for combinations with electrical entry.

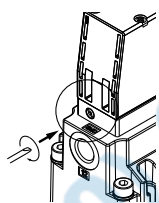
* DOS, DOZ are not available.
* For AC specifications, NIL is only set for Electrical entry DO.

⑪ Manual override

Nil: Non-locking push type

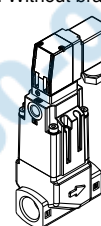


D: Push-turn locking lever type

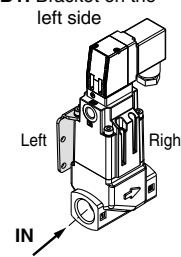


⑫ Bracket mounting position

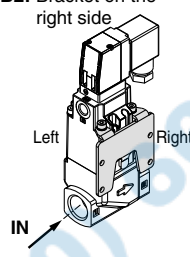
Nil: Without bracket



B1: Bracket on the left side



B2: Bracket on the right side



Note) Bracket cannot be attached later.

Table (1) Electrical entry/Light/Surge Voltage Suppressor

Voltage	Electrical entry	Without light/surge voltage suppressor		
		Nil	S	Z
AC	T	—	●	●
	D	—	●	●
	W	—	—	—
	DO	● Note)	—	—
DC	T	—	—	—
	D	●	●	●
	W	—	—	—
	DO	●	—	—

Note) If a AC specification without DIN Terminal (DO) is selected, always use a DIN connector with surge voltage suppressor as the connector.

⑬ Auto switches (for verifying whether the valve is open/closed)

Nil	Without auto switch (without magnet)
M	Without auto switch (with built-in magnet)
A	With auto switch Select a model, referring to the table “Applicable Auto Switches” below.
B	
C	
E	
F	
G	

* The auto switches are included when shipped (unmounted).

⑭ Lead wire length

Nil	0.5 m
M	1 m
L	3 m
Z	5 m

* 0.5m (Nil), 1m (M), and 5m (Z) for D-M9□A will be produced on receipt of order.

⑮ Number of auto switches

Nil	2 pcs.
S	1 pc.

Applicable auto switches / Refer to page 385 to 388 for detailed auto switch specifications.

Solid state auto switch

Smbol	Part no.	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Applicable load	
	In-line					DC			
A	D-M9N	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	IC circuit	Relay, PLC
B	D-M9P				3-wire (PNP)		12 V		
C	D-M9B				2-wire				
E	D-M9NA	Water resistance (2-color display)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	IC circuit	Relay, PLC
F	D-M9PA				3-wire (PNP)		12 V		
G	D-M9BA				2-wire				

Option

(For detail, refer to page 384)

Cable for M12 connector

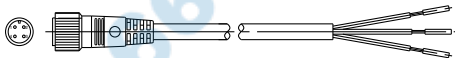
V100-200-1-4

Specification

1	For DC
2	For AC

Cable length (L)

4	1000 [mm]
8	3000 [mm]
9	5000 [mm]



VNA

VNB

SGC

VNC

VNH

VND

VCC