

Coolant Valve

Series SGC

For 0.5 MPa/1.0 MPa/1.6 MPa

● **Flow rate**
Av factor (in case of 0.5 MPa specification)

SGC2 : 155

SGC3 : 284

SGC4 : 440

● **Service life: 5 million cycles or more**
(based on SMC's test condition)

● With auto switches for verifying whether the valve is open/closed

● Reduction of environmentally harmful chemical substances, Compliant with **RoHS** Directive

● **Power consumption: 0.35 W**
(in case of 24 VDC)



VNA

VNB

SGC

VNC

VNH

VND

VCC

Coolant Valve

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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
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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)
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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
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⑫ Bracket mounting position

Nil: Without bracket 	B1: Bracket on the left side 	B2: Bracket on the right side
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Note) Bracket cannot be attached later.

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

Voltage	Electrical entry	Without light/surge voltage suppressor	With surge voltage suppressor	With 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.