

Features

No hydraulic locking occurs even during long periods of pressurized operation

Nomenclature

C2SL G ×× ×× × 10 1 2 3 7 8 5 6 9 10 11

1 Applicable fluid code

No designation: Petroleum-based hydraulic fluid Phosphate ester hydraulic fluid

2 Model No.

C2SL: Type C2 seat type solenoid pilot valve

3 Compound function

No designation: Without throttle function With throttle function

4 Connections

G: Gasket mount type

5 Nominal diameter

03. 3/8 06: 3/4

6 Cracking pressure code

03: 0.05 MPa $\{0.5 \text{ kgf/cm}^2\}$ at flow B \rightarrow A 10: 0.17 MPa $\{1.7 \text{ kgf/cm}^2\}$ at flow B \rightarrow A

Note: *1 Applicable only to C2SL (without throttle function)

*2 Applicable only to C2SLT (with throttle function)

7 Voltage code for the solenoid valve

A: AC 100 V (50/60 Hz), AC 110 V (60 Hz) B: AC 200 V (50/60 Hz), AC 100 V (60 Hz) P: DC 24 V

8 Design No.

(The design No. is subject to change)

9 Cartridge valve option code *1

No designation: Standard cartridge valve type Shockless cartridge valve type

10 Option code *2

No designation: Standard adjusting screw type Digital handle type

11 Solenoid pilot valve option code

No designation: Lead wire type

DIN connector type (without lamp) C: CL: DIN connector type (with lamp)

Specifications

Model No.	Nominal diameter	Maximum operating pressure MPa {kgf/cm²}	flow rate frequency amou		Leak amount cm³/min	Leak amount Cartridge area		Cartridge drainage volume cm³ *4		
							(1)	(2)		
C2SL*-G03	3/8	25 {250}	200	240	0.25	AA:AF = 1:1.6	1.5	2	5.2	
C2LS×-G06	3/4	23 (230)	500	240	maximum	AA.AF - 1.1.0	3.5	5	8	

Note: *3 Area at port A (AA): Area at port F (AF)

*4 Cartridge drainage volume (1) Model code: C2SL

(2) Model code: C2SLT, C2SL-K

Refer to JSC-×01 on Page G-78 for the solenoid specifications.

Accessories

Model No.	Hexagon socket head cap bolt	Quantity	Tightening torque N·m {kgf·cm}		
C2SL×-G03	M10 × 60	4	51 to 68 {510 to 680}		
C2SL×-G06	M10 × 75	4	51 to 68 {510 to 680}		

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Sub-plate model code

• The sub-plate is not provided with the valve. Order it separately if required by specifying the model code given in the table below.

Model code	Nominal diameter	Connection port diameter	Mass kg	
JGB-03M	3/8	Rc%	1.6	
JGB-03M04	/8	Rc½		
JGB-06M	3/4	Rc¾	3.9	
JGB-06M08	74	Rc1		

Refer to Page S-6 for the dimensions of the sub-plate.

Handling

- Flow A → B cannot be utilized with the solenoid either energized or demagnetized.
- Flow rate adjusting method (with C2SLT energized)
 - O Turning the flow rate adjusting screw counterclockwise increases the flow rate.
 - O Since a large force will be required to operate the flow rate adjusting screw when the pressures at ports A and B increase, adjust the flow rate at 10 MPa {100 kgf/cm²} maximum.
 - O The flow rate will not be zero even when the flow rate adjusting screw is fully tightened. See the minimum control flow rate characteristics.

Adjusting response at switching

• Adjustment using the fixed throttles

The response can be adjusted by changing the responsive adjusting fixed throttles (NPTF¹/₁₆).

At shipment, the product is not equipped with fixed throttles.

If you require fixed throttles, order them separately by referring to the model codes below.

Model code: T1-16-** (**: Throttle diameter code) | Tightening torque: 6 to 7.5 N·m {60 to 75 kgf·cm}

Throttle diameter code	06	07	08	09	10	12	14	16	18	20	25
Fixed throttle diameter	ф0.6	φ0.7	φ0.8	φ0.9	φ1	φ1.2	φ1.4	ф1.6	ф1.8	φ2	φ2.5

O Adjustment using the pilot throttle valve

To control the opening speed and closing speed of the valve separately, stack size 02 stack valves below the solenoid pilot valve. When using stack valves, order mounting bolts separately by referring to the table below since the mounting bolts required differ depending on the stacking height.

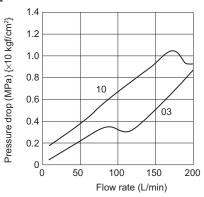
	Opening speed adjustment		Opening/closing speed adjustment			
Stack valve model code	MT-02B-55 MT-02Bi-55		MT-02B-55, MT-02Bi-55			
Hexagon socket head cap bolt	M5 :	M5 × 130				
Quantity	4	1	4			
Tightening torque N·m {kgf·cm}	6 to 8 {60 to 80}					

Shocks at switching can be suppressed by using the shockless cartridge valve type (option code: K).

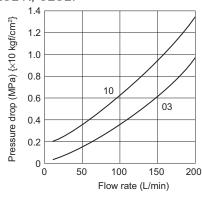
Performance curves (viscosity: 32 mm²/s {cSt})

C2SL*-G03

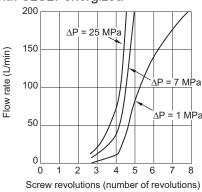
Pressure drop characteristics C2SL



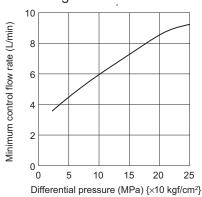
Pressure drop characteristics C2SL-K, C2SLT



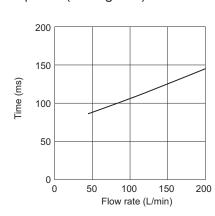
Adjusting screw revolution - Flow rate characteristics With C2SLT energized



Minimum control flow rate characteristics With C2SLT energized



Response (closing time) *5



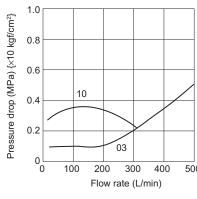
Response (opening time)

Power supply	Opening time (sec)
AC	0.025 to 0.035
DC	0.035

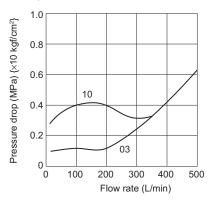
Note:

*5 With the pressure at port B set at 25 MPa {250 kgf/cm²} when demagnetized and the port A vent to the tank for C2SL-G03-10P-10 *5 The closing time may change slightly depending on the differential pressure.

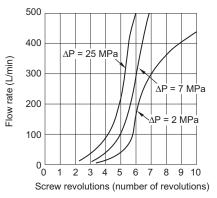
• C2SL*-G06 Pressure drop characteristics C2SL



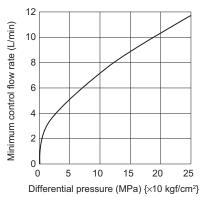
Pressure - Flow rate characteristics C2SL-K, C2SLT



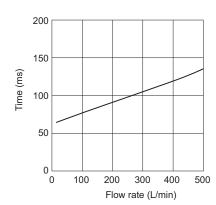
Adjusting screw revolution - Flow rate characteristics With C2SLT energized



Minimum control flow rate characteristics With C2SLT energized



Response (closing time) *6



Response (opening time)

Power supply	Opening time (Sec.)
AC	0.025 to 0.035
DC	0.035

Note:

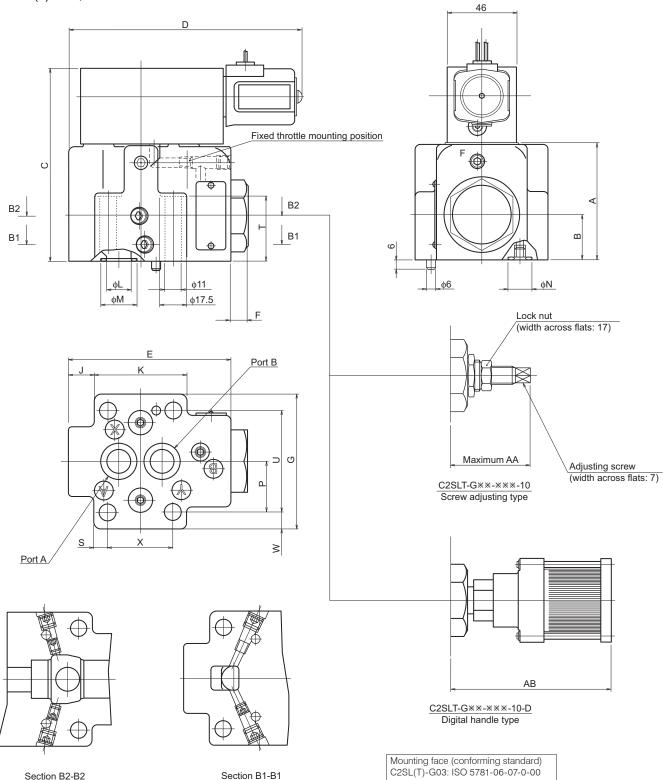
- *6 With the pressure at port B set at 25 MPa {250 kgf/cm²} when demagnetized and the port A vent to the tank for C2SL-G06-10P-10
 - The closing time may change slightly depending on the differential pressure.

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External dimension diagram

• C2SL(T)-G03, 06

Section B2-B2

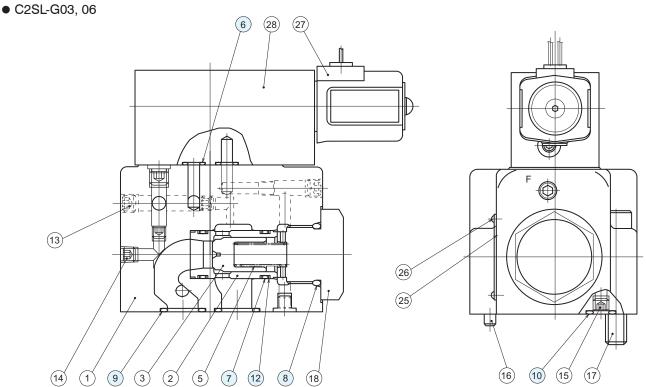


Madal Na		Dimensions												
Model No.	Α	В	С	D	Е	F	G	J	К	L	М	N	Р	U
C2SL(T)-G03	77	30	77	153.5	107	11	88	15	61	16	24	16	33.3	66.7
C2SL(T)-G06	95	40	145	164	127	14	102	14	82	24	34	16	39.7	79.4

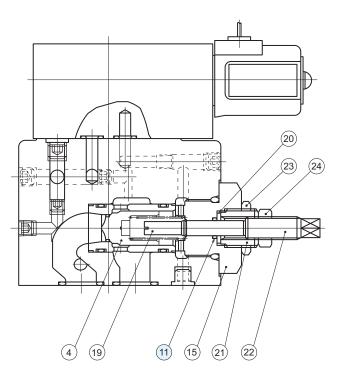
C2SL(T)-G06: ISO 5781-08-10-0-00

Model No.	W	S	Т	Х	AA	AB
C2SL(T)-G03	10.65	9.05	44	42.9	48	106
C2SL(T)-G06	11.3	10.85	59	60.3	60.5	107

Section B1-B1



• C2SLT-G03, 06



Sealing part table

0 .							
Part No.	Name		C2SL (T) -G03	C2SL (T) -G06			
Part No.	Name	Quantity Part specifications		Quantity	Part specifications		
6	O-ring	4	JIS B 2401 1B P9	4	JIS B 2401 1B P9		
7	O-ring	2	AS568-020 (NBR, Hs90)	2	AS568-122 (NBR, Hs90)		
8	O-ring	1	AS568-215 (NBR, Hs90)	1	AS568-222 (NBR, Hs90)		
9	O-ring	2	JIS B 2401 1B P20	2	JIS B 2401 1B P28		
10	O-ring	2	JIS B 2401 1B P12	2	JIS B 2401 1B P12		
11	O-ring	1	AS568-011 (NBR, Hs90)	5	AS568-011 (NBR, Hs90)		
12	Backup ring	4	Bias cut for AS568-020	4	Bias cut for AS568-122		