

## Low watt type solenoid operated valve



### Features

- A solenoid valve adopting low watt coil (DC: 5W, AC: 12W).
- Possible to drive directly by means of programable sequence controller due to the low current characteristics.

### Nomenclature

\* - **LS** - **G 02** - \*\* \* \* - **30** - \*\*\*

1      2      3      4      5      6      7      8      9

#### (1) Nomenclature of applied fluid

No mark : Working oil with petroleum contents  
 F : Working oil with phosphoric acid ester

#### (2) Model No.

LS : Low watt type solenoid operated valve

#### (3) Connections

G : Gasket attached type

#### (4) Nominal diameter

02 : 1/4

#### (5) Spool symbol (refer to model list)

#### (6) Spool operating systems

C : Spring center type  
 A : Spring off-set type (with SOLa)  
 B : Spring off-set type (with SOLb)  
 N : No spring type (without detente)  
 D : No spring type (with detente)

#### (7) Voltage mark (refer to solenoid specifications table)

#### (8) Design number (the design number is subject to change)

#### (9) Option mark ★1

C : DIN connector type (without lamp)  
 CL : DIN connector type (with lamp)  
 CI : DIN connector without plug  
 N : with surge killer ★2  
 E : with earth terminal (coping with CE standards) ★3

Note) ★1 When more than two options are doubled, line up in the alphabetical order.

★2 Surge killer is only applied to a terminal box type.

★3 A product coping with CE standards with an earth terminals is only the case that the voltage mark is A or P.  
 (Spool operating systems except A or P don't cope with CE standards)

### Specifications

Model No.	Nom. Dia.	Max. operating pressure MPa {kgf/cm <sup>2</sup> }	Max. flow rate ★4 L/min	Permissible back pressure MPa {kgf/cm <sup>2</sup> }	Max. switching frequency cycle/min
LS-G02	1/4	7 {70}	30 (15)	7 {70}	240

Note) ★4 Spool method : Max. flow rate at 66C of working method is 15L/min.

### (7) : Solenoid specifications

Voltage mark	Power supply voltage	Starting current A	Holding current A	Holding watt W	Permissible volt variation %
A	AC100V(50Hz)	1.13	0.31	12.0	80~110
	AC100V(60Hz)	1.02	0.22	8.5	90~121
	AC110V(60Hz)	1.13	0.26	11.2	82~110
B	AC200V(50Hz)	1.13	0.31	12.0	80~110
	AC200V(60Hz)	1.02	0.22	8.5	90~121
	AC220V(60Hz)	1.13	0.26	11.2	82~110
P	DC24V	—	0.216	5.2	90~110

Time rating	Insulation resist.	Dielectric spec.	Insulation level.
Continuous	50 MΩ	AC1500V 1min	B class

Note) ○The current and watts are at 20°C.

○The starting current is the value when the moving iron core is at farthest place from the rigid iron core.

**Weight (kg)**

Double solenoid		Single solenoid	
AC	DC	AC	DC
1.6	2.2	1.3	1.6

**(5) : Model list**

Model code		
JIS hydraulic symbols		
Spool operating method		
C,N,D type	A type	B type
LS-G02-2C 	LS-G02-2A 	LS-G02-2B 
LS-G02-3C 	LS-G02-20A 	LS-G02-20B 
LS-G02-4C 	—	—
LS-G02-44C 	—	—
LS-G02-66C 	—	—
LS-G02-7C 	—	—
LS-G02-8C 	—	—
LS-G02-9C 	—	—
LS-G02-2N 	—	—
LS-G02-20N 	—	—
LS-G02-2D 	—	—
LS-G02-20D 	—	—