

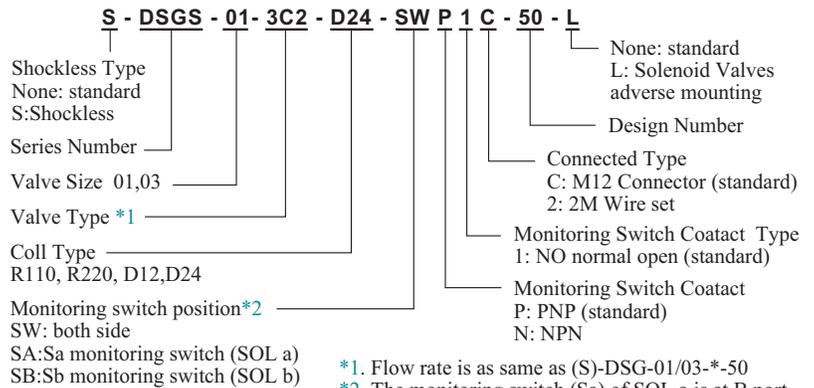
## Solenoid Valves with Monitoring Switch-(S)-DSGS Max. Pressure 31.5 MPa

Injection Machines and Machine Tools  
**Patented**  
 To improve the safety of hydraulic machines

- It can monitor the spool position shifting correctly.
- It is adopted with non-contact parts and zero-torn part with long-life.
- It can choose PNP output and directly check the function with little hysteresis.
- There is no special requirement for the water level in the fluid and the pollution.
- Dust-proof and water-proof level is IP 65. It will not be interfered by the external magnetic field.
- D24 Type Solenoid Valves was awarded CE certificate.

It is available for injection machines, machine tools and the other hydraulic machines that need to improve the safety.

### Model Number Designation



\*1. Flow rate is as same as (S)-DSG-01/03-\*-50  
 \*2. The monitoring switch (Sa) of SOL a is at B port. The monitoring switch (Sa) of SOL a is at A port.

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China Patent No. ZL200820107394.0  
 Taiwan Patent No. M344413



### Mounting Bolts (Attachment)

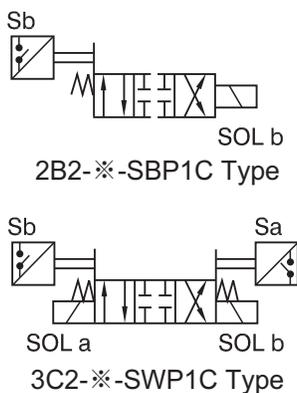
| Valve Model No. | Socket Head Cap Screw | Tightening Torque |
|-----------------|-----------------------|-------------------|
| (S)-DSGS-01     | M5 x 45L 4 Pcs        | 6~7 N·m           |
| (S)-DSGS-03     | M6 x 35L 4 Pcs        | 12~15 N·m         |
| DSHGS-06        | M12 x 60L 6 Pcs       | 100~123N·m        |

Note) This series of valves can not be mounted in vertical way.

### Switch M12 Connector with Wire (Options)

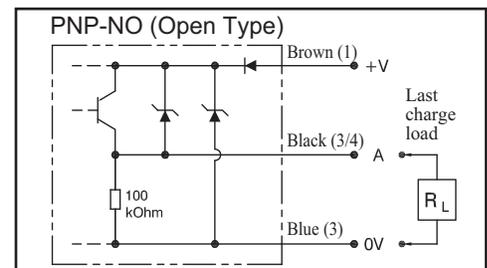
| Model                        | Valve Type            | Remark                          |
|------------------------------|-----------------------|---------------------------------|
| M124R-PUR-2M (Straight type) | (S)-DSHGS-04-*-50(-L) | 2M:2M ( Oil Resistance Cables ) |
| M124RL-PUR-2M (90° Type)     | (S)-DSHGS-06-*-50(-L) |                                 |

### Graphic Symbol



### Monitoring Switch and Wiring Diagrams

| Item                      | Specification        |
|---------------------------|----------------------|
| Supply Voltage Range      | 10~30 VDC            |
| Max. Output Current       | 200 mA (32 VDC max.) |
| Switching Frequency       | 600 Hz               |
| Ambient Temperature Range | -25~70 °C            |
| Degree of Protection      | IP 67                |



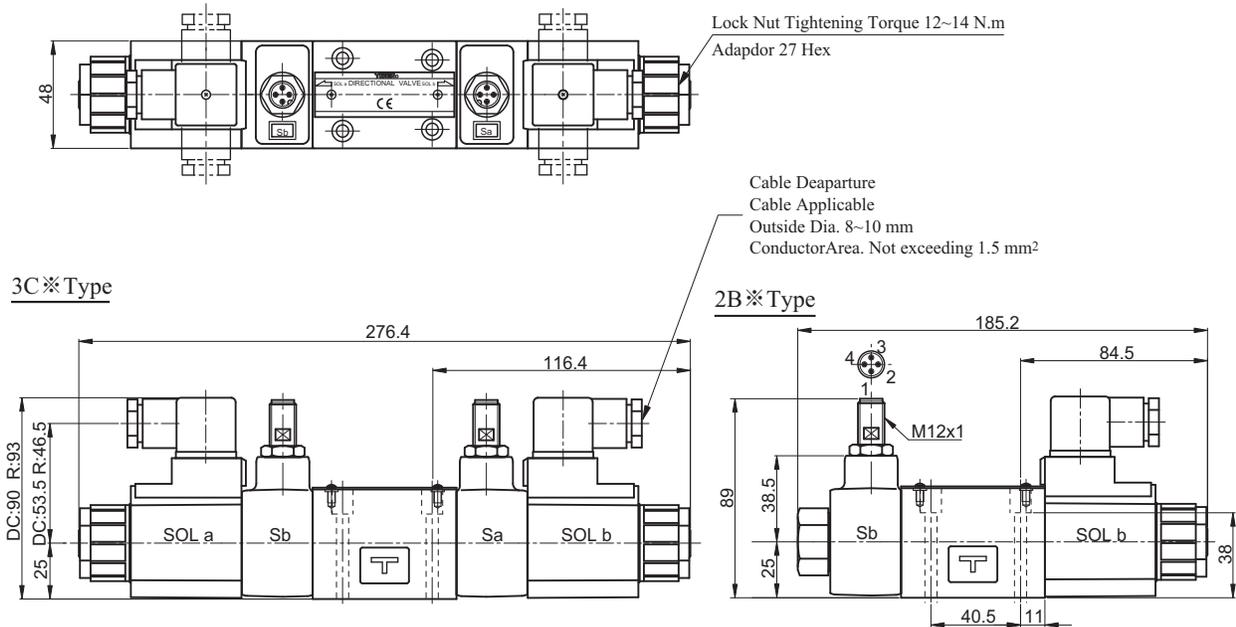
**Ratings:** For the flow and pressure details of valves, please refer to DSHG-\* catalog

| Valve Type     | Model                  | Max. Flow L/min | Max. Pressure MPa               | Max. T-Line Back Pressure MPa | Max. Changeover Frequency Cycle / min | Mass kg                 |     |
|----------------|------------------------|-----------------|---------------------------------|-------------------------------|---------------------------------------|-------------------------|-----|
| Standard Type  | DSGS-01-3C-*-50(-L)    | 63              | 31.5<br>(Spool Type 60 only 25) | 16                            | 300<br>(R Type nly 120)               | 3.7                     |     |
|                | DSGS-01-2B-*-50(-L)    |                 |                                 |                               |                                       | 2.4                     |     |
| Shockless Type | S-DSGS-01-3C-*-50(-L)  | 40              | 16                              |                               | 120                                   | 3.7                     |     |
|                | S-DSGS-01-2B2-*-50(-L) |                 |                                 |                               | 2.4                                   |                         |     |
| Standard Type  | DSGS-03-3C-*-50(-L)    | 120             | 31.5<br>(Spool Type 60 only 25) |                               | 16                                    | 240<br>(R Type nly 120) | 8.1 |
|                | DSGS-03-2B-*-50(-L)    |                 |                                 |                               |                                       |                         | 5.2 |
| Shockless Type | S-DSGS-03-3C-*-50(-L)  | 120             | 16                              | 120                           |                                       | 8.1                     |     |
|                | S-DSGS-03-2B2-*-50(-L) |                 |                                 |                               |                                       | 5.2                     |     |



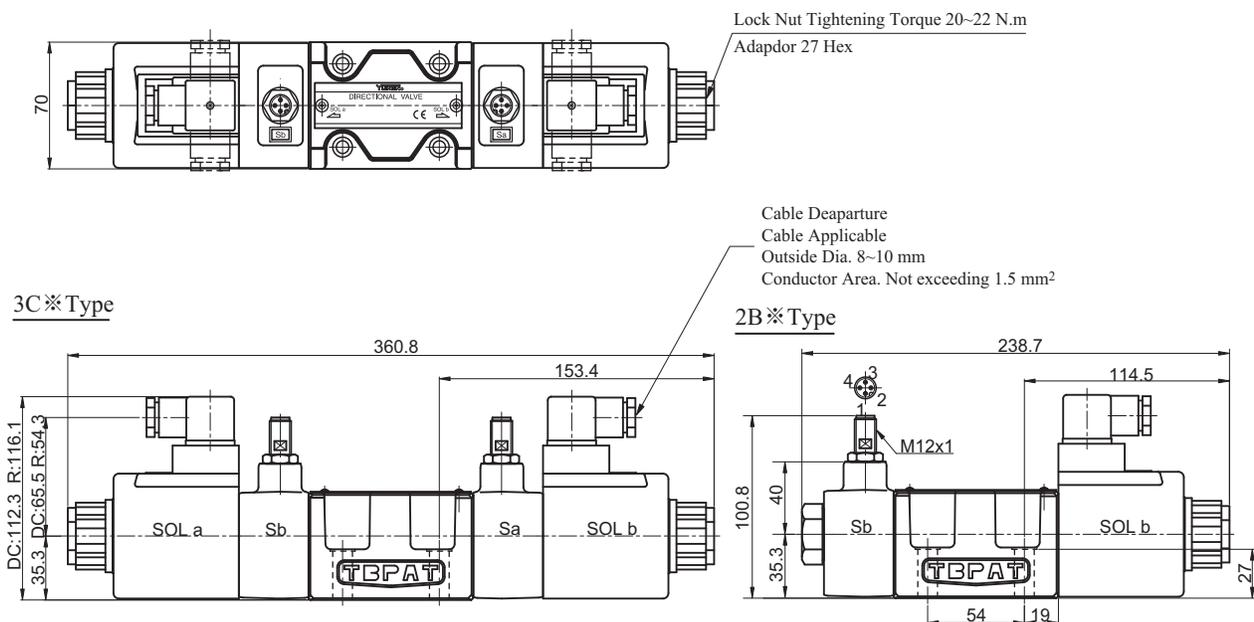
## Solenoid Valves with Monitoring Switch-(S)-DSGS Max. Pressure 31.5 MPa

### ■(S)-DSGS-01 ( Mounting Surface: ISO 4401-AB-03-4-A Standard )



Note) For dimensions of valves mounting surface, please refer to DSGM-01 sub-plate on page 88.

### ■(S)-DSGS-03 ( Mounting Surface: ISO 4401-AC-05-4-A Standard )



Note) For dimensions of valves mounting surface, please refer to DSGM-03 sub-plate on page 91.

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