



## SK-GOI Series

*Wet Type Solenoid Operated  
Directional Control Valve With  
Deutsch Connector*



### Features

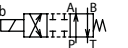
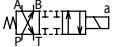
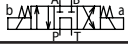
- High pressure, large capacity with minimal pressure loss
- High dust and water resistance (JIS C 0920 IP67)
- High vibration proof (JIS D 1601 3 D Grade 90 Division 400)
- Shockless type available (Option: F)
- Diode built in coil available (Option: G)
- Low switching noise and very long life



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## Specifications

| Model Number                                                                      |           | SK-G01                       |                                   |                              |                                   |  |  |  |
|-----------------------------------------------------------------------------------|-----------|------------------------------|-----------------------------------|------------------------------|-----------------------------------|--|--|--|
|                                                                                   |           | Standard Type                |                                   | Shockless Type               |                                   |  |  |  |
| JIS Symbol                                                                        | Operation | Maximum Flow Rate L/min(gpm) | Maximum Working Pressure MPa(psi) | Maximum Flow Rate L/min(gpm) | Maximum Working Pressure MPa(psi) |  |  |  |
|  | A3X       | 80 (21.1)                    | 35 (5075)                         | 50.0 (13.2)                  | 25 (3625)                         |  |  |  |
|  | H3X       |                              |                                   |                              |                                   |  |  |  |
|  | E3X       | 100 (26.4)                   |                                   |                              |                                   |  |  |  |
|  | C5        |                              |                                   |                              |                                   |  |  |  |
|  | C6        | 80 (21.1)                    |                                   |                              |                                   |  |  |  |
|  | C4        | 50.0 (13.2)                  |                                   | 40 (10.6)                    |                                   |  |  |  |
|  | C7Y       |                              |                                   |                              |                                   |  |  |  |

|                                                 |                                       |                                                                       |
|-------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------|
| Maximum Working Pressure MPa(psi) P, A, B ports | Standard Type                         | 35 (5075)                                                             |
|                                                 | Shockless Type                        | 25 (3625)                                                             |
| Maximum Allowable Back Pressure MPa(psi) T port | Standard Type                         | 21 (3045)                                                             |
|                                                 | Shockless Type                        |                                                                       |
| Switches/min                                    | Standard Type                         | 120                                                                   |
|                                                 | Shockless Type                        |                                                                       |
| Option                                          | Shockless                             | F                                                                     |
|                                                 | Surgeless (Diode built in coil)       | G                                                                     |
| Weight kg (lbs)                                 | Double solenoid                       | 2.0 (4.41)                                                            |
|                                                 | Single solenoid                       | 1.5 (3.31)                                                            |
| Operating Environment                           | Dust Resistance/Water Resistance Rank | JIS C 0920 IP67                                                       |
|                                                 | Vibration Proof                       | JIS D 1601 3 D Grade 90 Division 400                                  |
|                                                 | Ambient Temperature                   | -30~+50°C (-22~+122°F)                                                |
| Operating Fluid                                 | Temperature Range                     | -25~+80°C (-13~+176°F)                                                |
|                                                 | Viscosity Range                       | 15~300mm <sup>2</sup> /s(cSt)                                         |
|                                                 | Filtration                            | 25 µm or less                                                         |
| Mounting Bolts                                  | Size x Length                         | M5x45 or #10x44.5, four bolts                                         |
|                                                 | Tightening Torque                     | Hexagon socket head bolts of strength 12T<br>5~7N•m (3.69~5.16lbf•ft) |

Note) 1. Maximum operating pressure depends on the valve type. For details, see "Permissible pressure-flow rate values."

2. A protective cover is recommended to avoid splashing the valve directly.

3. For mounting bolts, use 12T or equivalent.

4. Mounting bolts are not included.

## Model Code

S K - G 0 1 - A 3 X - D G T - D 1 - 5 5 0 3 H

Design number

Power supply D1=DC12V D2=DC24V

Deutsch connector

Auxiliary symbol (Can be combined in alphabetic sequence)

F: Shockless type G: Surgeless type (Diode built in coil)

Transition Flow Path  
(A3X, H3X, E3X and C7Y)

| X      | Y         |
|--------|-----------|
| Closed | Semi-open |
|        |           |

Center position

| 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|
|   |   |   |   |   |

Operation method

| A                  | H | C                  | E |
|--------------------|---|--------------------|---|
| Spring offset type |   | Spring Center type |   |
|                    |   |                    |   |

Nominal diameter

Mounting method G: Gasket type

Wet type solenoid operated directional control valve

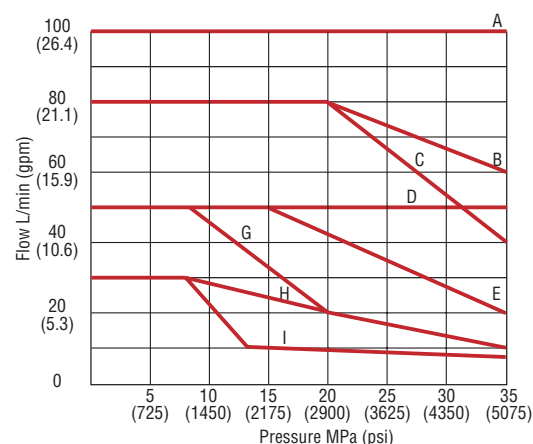
## Solenoid Assembly Specifications

| Solenoid Type | Power Supply Type | Voltage (V) | Solenoid Coil Model Number        | Holding Current (A) | Holding Power (W) | Allowable Voltage Range (V) |
|---------------|-------------------|-------------|-----------------------------------|---------------------|-------------------|-----------------------------|
| DC            | D1                | DC12        | EKB64-DT-D1-5503                  | 2.5                 | 30                | 10.8 - 13.2                 |
|               |                   |             | EKB64-DGT-D1-5503(Surgeless type) |                     |                   |                             |
|               | D2                | DC24        | EKB64-DT-D2-5503                  | 1.25                | 30                | 21.6 - 26.4                 |
|               |                   |             | EKB64-DGT-D2-5503(Surgeless type) |                     |                   |                             |

## Permissible Pressure-Flow Rate Values

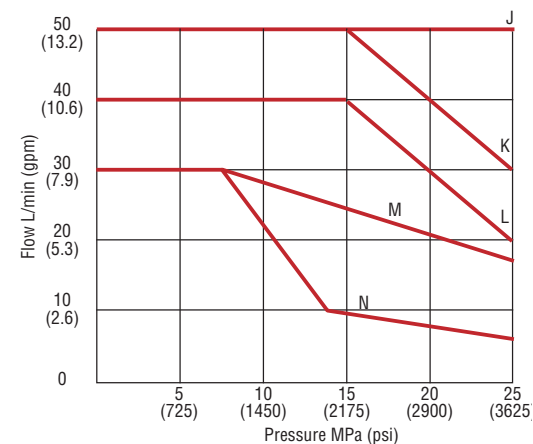
### •Standard type

| Type                                  | Standard Type |   |   |
|---------------------------------------|---------------|---|---|
| Operation Example<br>Operation Symbol |               |   |   |
| A3X                                   | B             | I | I |
| H3X                                   | B             | I | I |
| E3X                                   | A             | H | H |
| C4                                    | D             | D | D |
| C5                                    | A             | G | G |
| C6                                    | C             | G | G |
| C7Y                                   | E             | I | I |



### •Shockless type

| Type                                  | Shockless Type |   |   |
|---------------------------------------|----------------|---|---|
| Operation Example<br>Operation Symbol |                |   |   |
| A3X                                   | J              | N | N |
| H3X                                   | J              | N | N |
| E3X                                   | J              | M | M |
| C4                                    | J              | J | J |
| C5                                    | J              | N | N |
| C6                                    | K              | N | N |
| C7Y                                   | L              | N | N |

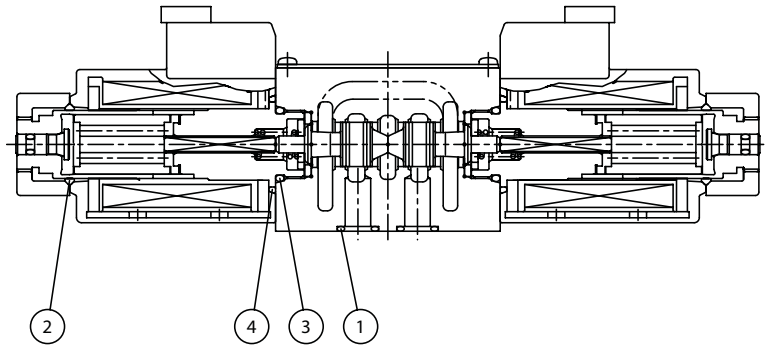
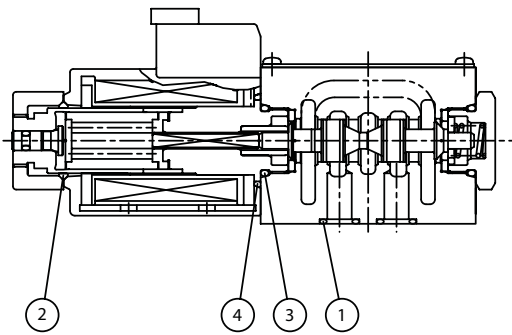
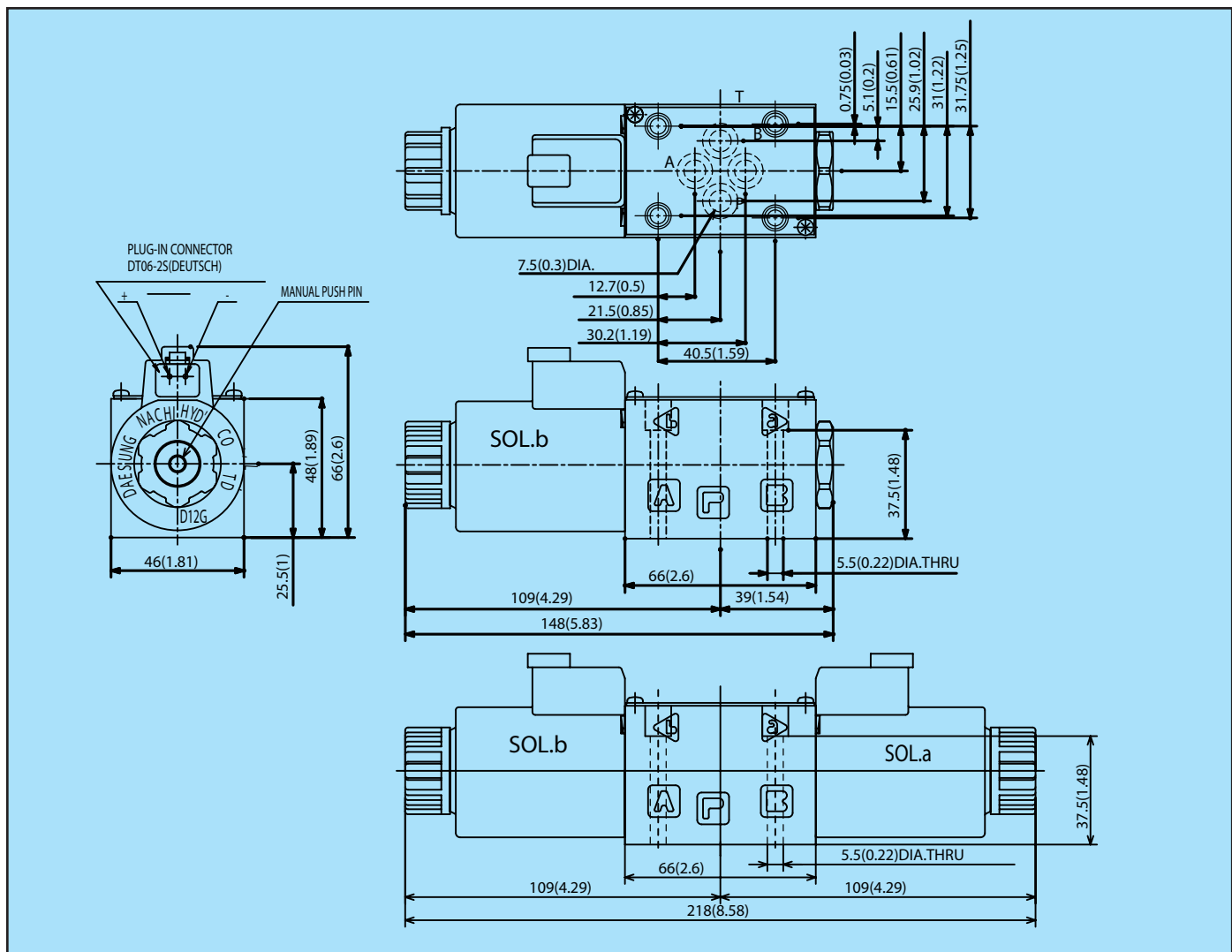


## Switching Response Time

| Model Number            | Response Time (sec.) |              | Measurement Conditions              |
|-------------------------|----------------------|--------------|-------------------------------------|
|                         | Solenoid ON          | Solenoid OFF |                                     |
| SK-G01-**-DT-D*-5503H   | 0.03 to 0.04         | 0.02 to 0.04 | 14MPa (2030psi)<br>30L/min (7.9gpm) |
| SK-G01-**-DGT-D*-5503H  | 0.03 to 0.04         | 0.07 to 0.10 |                                     |
| SK-G01-**-DFGT-D*-5503H | 0.07 to 0.10         | 0.10 to 0.15 |                                     |

Note) The switching response time changes slightly with operating conditions. (Pressure, flow rate, viscosity, etc.)

## Dimensional Drawings



## Sealing Parts

| Part No. | Part Name | Part No.        | Quantity        |                 |
|----------|-----------|-----------------|-----------------|-----------------|
|          |           |                 | Single Solenoid | Double Solenoid |
| 1        | O-ring    | AS568-012(Hs90) | 4               | 4               |
| 2        | O-ring    | 1A-P20          | 1               | 2               |
| 3        | O-ring    | 1B-P18          | 2               | 2               |
| 4        | O-ring    | S-25            | 1               | 2               |

Note) 1A and 1B are JIS Standard B 2401, while AS568 is SAE Standard.

# NACHI

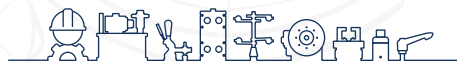
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