

# 2/2-Wege-Magnetventil

2/2-Wege-Ausführung

Artikel Nr. 148554

Typen Nr. MVA.MS.24V.G38.0-6B



Beispielhafte Darstellung

Die Standardbaureihe in den Ausführungen

- direktgesteuert

- vorgesteuert

Gerätesteckdose nach ISO 4400

Mediumtemperatur max. 80 °C

## Technische Informationen

|                        |                                    |
|------------------------|------------------------------------|
| Gehäuse                | Messing                            |
| Ventilsitz             | Edelstahl                          |
| Innenteile             | Edelstahl / Messing                |
| Schutzart              | IP 65                              |
| Bauform                | 1                                  |
| Gewinde                | G 3/8 IG                           |
| Spannung               | 24 V DC                            |
| Betriebsdruck          | 0 - 6 bar                          |
| Dichtmaterial          | NBR                                |
| Elektrischer Anschluss | ISO 4400 / EN 175301-803 Bauform A |
| Mediumtemperatur       | -10 bis 80 °C                      |
| Umgebungstemperatur    | -10 bis 60 °C                      |
| Gewindenorm            | DIN EN ISO 228-1                   |
| Öffnung                | 6 mm                               |
| A                      | 79,5 mm                            |
| B                      | 50 mm                              |
| C                      | 80,5 mm                            |

## Kaufmännische Daten

|                         |                 |
|-------------------------|-----------------|
| Zolltarifnummer         | 84812090        |
| Ursprungsland           | TR              |
| eCl@ss 5.1.4            | 27220601        |
| eCl@ss 9.0              | 27220601        |
| UNSPSC_Code_v190501     | 40141605        |
| UNSPSC_CodeDesc_v190501 | Solenoid valves |

## Material Informationen

|                        |                         |
|------------------------|-------------------------|
| REACH SVHC1 Stoff Name | lead                    |
| CAS-Nr. SVHC 1         | 7439-92-1               |
| RoHS Werkstoff-Hinweis | RoHS compliant          |
| REACH Info             | contains SVHC substance |

## General Purpose Solenoid Valves S1050 Series (G3/8", G1/2")

### GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

### ELECTRICAL CHARACTERISTICS

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Continuous Duty          | : ED %100                                                                                                  |
| Coil Insulation Class    | : H (180°C)(IEC 85)                                                                                        |
| Coil Impregnation        | : Polyester Fiber Glass                                                                                    |
| Ambient Temperature      | : -10°C, +60°C                                                                                             |
| Protection Degree        | : IP65 (ISO 60529) On request; IP68                                                                        |
| Electric Plug Connection | : DIN 46340 3-Poles Connector (DIN 43650)                                                                  |
| Connector Specification  | : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)                                              |
| Electrical Safety        | : IEC 335                                                                                                  |
| Standard Voltages        | : AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA, 230V 24VA, DC 12V 18W, 24V 18W, 48V 18W, 110V 18W |

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order

### MATERIALS IN CONTACT WITH FLUID

|                           |                                |
|---------------------------|--------------------------------|
| Body                      | : Brass                        |
| Internal Parts            | : Stainless Steel, Brass       |
| Sealing                   | : NBR(On request; EPDM, VITON) |
| Shading Ring              | : Copper (EN 12735-1)          |
| Seats, Core Tube, Springs | : Stainless Steel              |

### OPTIONS

Female connection: BSP; (On request NPT)

- On request CR-Ni plated, PTFE coated done
- On request Atex (explosion proof) coil.

### TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms  
Closing Time : 30 ms

### SEALS FEATURES

|       |                  |
|-------|------------------|
| NBR   | : -10°C...+80°C  |
| EPDM  | : -10°C...+130°C |
| VITON | : -10°C...+160°C |
| PTFE  | : -10°C...+160°C |
| RUBY  | : -10°C...+160°C |



**NORMALLY CLOSED**

**2/2 OPERATED**

**DIRECT ACTING**

ΔP=0



WATER

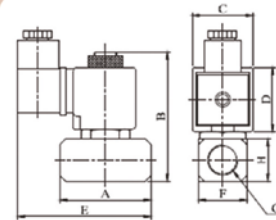


AIR

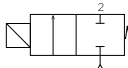


GAS

| Dimensions (mm) |    |      |    |      |      |    |    |
|-----------------|----|------|----|------|------|----|----|
| G               | A  | B    | C  | D    | E    | F  | H  |
| 3/8"            | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |
| 1/2"            | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |



| Coils         | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------|----------------|-----------|--------|---------|-------------|--------------------------|
| C40012VDC18W  | 12VDC 18W      | COLD      | 19.56  | 19.56   | 1.63        | 20                       |
|               |                | HOT       | 14.52  | 14.52   | 1.21        | 106                      |
| C40024VDC18W  | 24VDC 18W      | COLD      | 20.88  | 20.88   | 0.87        | 25                       |
|               |                | HOT       | 14.64  | 14.64   | 0.61        | 116                      |
| C40110VDC18W  | 110VDC 18W     | COLD      | 19.96  | 19.96   | 0.18        | 23                       |
|               |                | HOT       | 13.56  | 13.56   | 0.123       | 115                      |
| C40012VAC15VA | 12VAC 15VA     | COLD      | 23.81  | 16.43   | 1.3         | 25                       |
|               |                | HOT       | -      | 15.86   | 1.262       | 79                       |
| C40024VAC15VA | 24VAC 15VA     | COLD      | 25.82  | 15.02   | 0.62        | 22                       |
|               |                | HOT       | -      | 13.91   | 0.57        | 81                       |
| C40110VAC15VA | 110VAC 15VA    | COLD      | 30.65  | 15.17   | 0.137       | 24                       |
|               |                | HOT       | -      | 13.96   | 0.126       | 80                       |
| C40230VAC15VA | 230VAC 15VA    | COLD      | 31.4   | 15.64   | 0.068       | 25                       |
|               |                | HOT       | -      | 14.41   | 0.063       | 80                       |
| C40230VAC24VA | 230VAC 24VA    | COLD      | 45.1   | 23.92   | 0.0154      | 23                       |
|               |                | HOT       | -      | 21.62   | 0.0154      | 100                      |

| Solenoid Valve Symbol                                                               | Valve Type/ Order No | Connection Size | Orifice Size | Pressure min/max | Kv  | Seal  |       |      | Weight |
|-------------------------------------------------------------------------------------|----------------------|-----------------|--------------|------------------|-----|-------|-------|------|--------|
|                                                                                     |                      |                 |              |                  |     | NBR   | Viton | EPDM |        |
|  | S1050                | G               | mm           | Bar              | Bar | l/min |       |      | kg     |
|                                                                                     | S1050.02.030         | 3/8"            | 3            | 0                | 10  | 4.6   | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.02.040         | 3/8"            | 4            | 0                | 9   | 6.4   | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.02.050         | 3/8"            | 5            | 0                | 7   | 9.2   | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.02.060         | 3/8"            | 6            | 0                | 6   | 11    | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.02.070         | 3/8"            | 7            | 0                | 5   | 15    | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.02.080         | 3/8"            | 8            | 0                | 3   | 17    | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.02.090         | 3/8"            | 9            | 0                | 2   | 19    | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.02.100         | 3/8"            | 10           | 0                | 1   | 25    | ✓     | ✓    | 0,48   |
|                                                                                     | S1050.03.030         | 1/2"            | 3            | 0                | 10  | 4.6   | ✓     | ✓    | 0,47   |
|                                                                                     | S1050.03.040         | 1/2"            | 4            | 0                | 9   | 6.4   | ✓     | ✓    | 0,47   |
|                                                                                     | S1050.03.050         | 1/2"            | 5            | 0                | 7   | 9.2   | ✓     | ✓    | 0,47   |
|                                                                                     | S1050.03.060         | 1/2"            | 6            | 0                | 6   | 11    | ✓     | ✓    | 0,47   |
|                                                                                     | S1050.03.070         | 1/2"            | 7            | 0                | 5   | 15    | ✓     | ✓    | 0,47   |
|                                                                                     | S1050.03.080         | 1/2"            | 8            | 0                | 3   | 17    | ✓     | ✓    | 0,47   |
|                                                                                     | S1050.03.090         | 1/2"            | 9            | 0                | 2   | 19    | ✓     | ✓    | 0,47   |
|                                                                                     | S1050.03.100         | 1/2"            | 10           | 0                | 1   | 25    | ✓     | ✓    | 0,47   |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.
- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

**Not:** Please look catalogues for more details

[www.smstork.com](http://www.smstork.com)

## General Purpose Solenoid Valves S1050 Series (G3/4", G1")

### GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

### ELECTRICAL CHARACTERISTICS

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Continuous Duty          | : ED %100                                                                                                  |
| Coil Insulation Class    | : H (180°C)(IEC 85)                                                                                        |
| Coil Impregnation        | : Polyester Fiber Glass                                                                                    |
| Ambient Temperature      | : -10°C, +60°C                                                                                             |
| Protection Degree        | : IP65 (ISO 60529) On request; IP68                                                                        |
| Electric Plug Connection | : DIN 46340 3-Poles Connector (DIN 43650)                                                                  |
| Connector Specification  | : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)                                              |
| Electrical Safety        | : IEC 335                                                                                                  |
| Standard Voltages        | : AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA, 230V 24VA, DC 12V 18W, 24V 18W, 48V 18W, 110V 18W |

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order

### MATERIALS IN CONTACT WITH FLUID

|                           |                                |
|---------------------------|--------------------------------|
| Body                      | : Brass                        |
| Internal Parts            | : Stainless Steel, Brass       |
| Sealing                   | : NBR(On request; EPDM, VITON) |
| Shading Ring              | : Copper (EN 12735-1)          |
| Seats, Core Tube, Springs | : Stainless Steel              |

### OPTIONS

Female connection: BSP; (On request NPT)

- On request CR-Ni plated, PTFE coated done
- On request Atex (explosion proof) coil.

### TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms  
Closing Time : 30 ms

### SEALS FEATURES

|       |                  |
|-------|------------------|
| NBR   | : -10°C...+80°C  |
| EPDM  | : -10°C...+130°C |
| VITON | : -10°C...+160°C |
| PTFE  | : -10°C...+160°C |
| RUBY  | : -10°C...+160°C |



NORMALLY CLOSED

2/2 OPERATED

DIRECT ACTING

ΔP=0



WATER

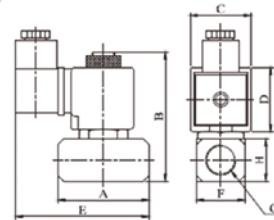


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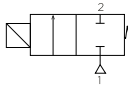


GAS

| Dimensions (mm) |    |    |    |      |      |    |    |
|-----------------|----|----|----|------|------|----|----|
| G               | A  | B  | C  | D    | E    | F  | H  |
| 3/4"            | 55 | 84 | 32 | 38.9 | 83.7 | 32 | 32 |
| 1"              | 60 | 92 | 32 | 38.9 | 86.2 | 40 | 40 |



| Coils         | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------|----------------|-----------|--------|---------|-------------|--------------------------|
| C40012VDC18W  | 12VDC 18W      | COLD      | 19.56  | 19.56   | 1.63        | 20                       |
|               |                | HOT       | 14.52  | 14.52   | 1.21        | 106                      |
| C40024VDC18W  | 24VDC 18W      | COLD      | 20.88  | 20.88   | 0.87        | 25                       |
|               |                | HOT       | 14.64  | 14.64   | 0.61        | 116                      |
| C40110VDC18W  | 110VDC 18W     | COLD      | 19.96  | 19.96   | 0.18        | 23                       |
|               |                | HOT       | 13.56  | 13.56   | 0.123       | 115                      |
| C40012VAC15VA | 12VAC 15VA     | COLD      | 23.81  | 16.43   | 1.3         | 25                       |
|               |                | HOT       | -      | 15.86   | 1.262       | 79                       |
| C40024VAC15VA | 24VAC 15VA     | COLD      | 25.82  | 15.02   | 0.62        | 22                       |
|               |                | HOT       | -      | 13.91   | 0.57        | 81                       |
| C40110VAC15VA | 110VAC 15VA    | COLD      | 30.65  | 15.17   | 0.137       | 24                       |
|               |                | HOT       | -      | 13.96   | 0.126       | 80                       |
| C40230VAC15VA | 230VAC 15VA    | COLD      | 31.4   | 15.64   | 0.068       | 25                       |
|               |                | HOT       | -      | 14.41   | 0.063       | 80                       |
| C40230VAC24VA | 230VAC 24VA    | COLD      | 45.1   | 23.92   | 0.0154      | 23                       |
|               |                | HOT       | -      | 21.62   | 0.0154      | 100                      |

| Solenoid Valve Symbol                                                               | Valve Type/ Order No | Connection Size | Orifice Size | Pressure min/max | Kv  | Seal  |               |      | Weight |
|-------------------------------------------------------------------------------------|----------------------|-----------------|--------------|------------------|-----|-------|---------------|------|--------|
|                                                                                     |                      |                 |              |                  |     | NBR   | Opsiyon Viton | EPDM |        |
|  | S1050                | G               | mm           | Bar              | Bar | l/min |               |      | kg     |
|                                                                                     | S1050.04.030         | 3/4"            | 3            | 0                | 10  | 4.6   | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.04.040         | 3/4"            | 4            | 0                | 9   | 6.4   | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.04.050         | 3/4"            | 5            | 0                | 7   | 9.2   | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.04.060         | 3/4"            | 6            | 0                | 6   | 11    | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.04.070         | 3/4"            | 7            | 0                | 5   | 15    | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.04.080         | 3/4"            | 8            | 0                | 3   | 17    | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.04.090         | 3/4"            | 9            | 0                | 2   | 19    | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.04.100         | 3/4"            | 10           | 0                | 1   | 25    | ✓             | ✓    | 0,90   |
|                                                                                     | S1050.05.030         | 1"              | 3            | 0                | 10  | 4.6   | ✓             | ✓    | 0,85   |
|                                                                                     | S1050.05.040         | 1"              | 4            | 0                | 9   | 6.4   | ✓             | ✓    | 0,85   |
|                                                                                     | S1050.05.050         | 1"              | 5            | 0                | 7   | 9.2   | ✓             | ✓    | 0,85   |
|                                                                                     | S1050.05.060         | 1"              | 6            | 0                | 6   | 11    | ✓             | ✓    | 0,85   |
|                                                                                     | S1050.05.070         | 1"              | 7            | 0                | 5   | 15    | ✓             | ✓    | 0,85   |
|                                                                                     | S1050.05.080         | 1"              | 8            | 0                | 3   | 17    | ✓             | ✓    | 0,85   |
|                                                                                     | S1050.05.090         | 1"              | 9            | 0                | 2   | 19    | ✓             | ✓    | 0,85   |
|                                                                                     | S1050.05.100         | 1"              | 10           | 0                | 1   | 25    | ✓             | ✓    | 0,85   |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.
- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

**Not:** Please look catalogues for more details

www.smstork.com

## General Purpose Solenoid Valves S1051 Series (G3/8", G1/2")

### GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

### ELECTRICAL CHARACTERISTICS

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Continuous Duty          | : ED %100                                                                                                  |
| Coil Insulation Class    | : H (180°C)(IEC 85)                                                                                        |
| Coil Impregnation        | : Polyester Fiber Glass                                                                                    |
| Ambient Temperature      | : -10°C, +60°C                                                                                             |
| Protection Degree        | : IP65 (ISO 60529) On request; IP68                                                                        |
| Electric Plug Connection | : DIN 46340 3-Poles Connector (DIN 43650)                                                                  |
| Connector Specification  | : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)                                              |
| Electrical Safety        | : IEC 335                                                                                                  |
| Standard Voltages        | : AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA, 230V 24VA, DC 12V 18W, 24V 18W, 48V 18W, 110V 18W |

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order

### MATERIALS IN CONTACT WITH FLUID

|                           |                                |
|---------------------------|--------------------------------|
| Body                      | : Brass                        |
| Internal Parts            | : Stainless Steel, Brass       |
| Sealing                   | : NBR(On request; EPDM, VITON) |
| Shading Ring              | : Copper (EN 12735-1)          |
| Seats, Core Tube, Springs | : Stainless Steel              |

### OPTIONS

- Female connection: BSP; (On request NPT)
- On request CR-Ni plated, PTFE coated done
- On request Atex (exp-proof) coil.
- On request, manual control can be added.

### TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms  
Closing Time : 30 ms

### SEALS FEATURES

NBR : -10°C...+80°C

EPDM : -10°C...+130°C

VITON : -10°C...+160°C

PTFE : -10°C...+160°C

RUBY : -10°C...+160°C

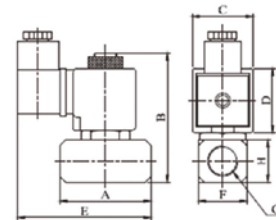


NORMALLY OPEN

2/2 OPERATED

DIRECT ACTING

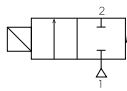
ΔP=0



Dimensions (mm)

|      | G  | A    | B  | C    | D    | E  | F  | H |
|------|----|------|----|------|------|----|----|---|
| 3/8" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |   |
| 1/2" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |   |

| Coils         | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------|----------------|-----------|--------|---------|-------------|--------------------------|
| C40012VDC18W  | 12VDC 18W      | COLD      | 19,56  | 19,56   | 1,63        | 20                       |
|               |                | HOT       | 14,52  | 14,52   | 1,21        | 106                      |
| C40024VDC18W  | 24VDC 18W      | COLD      | 20,88  | 20,88   | 0,87        | 25                       |
|               |                | HOT       | 14,64  | 14,64   | 0,61        | 116                      |
| C40110VDC18W  | 110VDC 18W     | COLD      | 19,96  | 19,96   | 0,18        | 23                       |
|               |                | HOT       | 13,56  | 13,56   | 0,123       | 115                      |
| C40012VAC15VA | 12VAC 15VA     | COLD      | 23,81  | 16,43   | 1,3         | 25                       |
|               |                | HOT       | -      | 15,86   | 1,262       | 79                       |
| C40024VAC15VA | 24VAC 15VA     | COLD      | 25,82  | 15,02   | 0,62        | 22                       |
|               |                | HOT       | -      | 13,91   | 0,57        | 81                       |
| C40110VAC15VA | 110VAC 15VA    | COLD      | 30,65  | 15,17   | 0,137       | 24                       |
|               |                | HOT       | -      | 13,96   | 0,126       | 80                       |
| C40230VAC15VA | 230VAC 15VA    | COLD      | 31,4   | 15,64   | 0,068       | 25                       |
|               |                | HOT       | -      | 14,41   | 0,063       | 80                       |
| C40230VAC24VA | 230VAC 24VA    | COLD      | 45,1   | 23,92   | 0,0154      | 23                       |
|               |                | HOT       | -      | 21,62   | 0,0154      | 100                      |

| Solenoid Vave<br>Symbol                                                             | Valve Type/<br>Order No | Connection<br>Size | Orifice<br>Size | Pressure<br>min/max |     | Kv    | Seal |                  |      | Weight |
|-------------------------------------------------------------------------------------|-------------------------|--------------------|-----------------|---------------------|-----|-------|------|------------------|------|--------|
|  | S1051                   | G                  | mm              | Bar                 | Bar | l/min | NBR  | Opsiyon<br>Viton | EPDM | kg     |
|                                                                                     | S1051.02.018            | 3/8"               | 1.8             | 0                   | 12  | 1.6   | ✓    | ✓                | ✓    | 0,49   |
|                                                                                     | S1051.02.025            | 3/8"               | 2.5             | 0                   | 10  | 3.2   | ✓    | ✓                | ✓    | 0,49   |
|                                                                                     | S1051.02.030            | 3/8"               | 3.0             | 0                   | 5   | 4.6   | ✓    | ✓                | ✓    | 0,49   |
|                                                                                     | S1051.03.018            | 1/2"               | 1.8             | 0                   | 12  | 1.6   | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1051.03.025            | 1/2"               | 2.5             | 0                   | 10  | 3.2   | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1051.03.030            | 1/2"               | 3.0             | 0                   | 5   | 4.6   | ✓    | ✓                | ✓    | 0,47   |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.
- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

**Not:** Please look catalogues for more details

www.smstork.com

## General Purpose Solenoid Valves S1050 Series (G3/8", G1/2")

### GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

### ELECTRICAL CHARACTERISTICS

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Continuous Duty          | : ED %100                                                                                                  |
| Coil Insulation Class    | : H (180°C)(IEC 85)                                                                                        |
| Coil Impregnation        | : Polyester Fiber Glass                                                                                    |
| Ambient Temperature      | : -10°C, +60°C                                                                                             |
| Protection Degree        | : IP65 (ISO 60529) On request; IP68                                                                        |
| Electric Plug Connection | : DIN 46340 3-Poles Connector (DIN 43650)                                                                  |
| Connector Specification  | : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)                                              |
| Electrical Safety        | : IEC 335                                                                                                  |
| Standard Voltages        | : AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA, 230V 24VA, DC 12V 18W, 24V 18W, 48V 18W, 110V 18W |

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order

### MATERIALS IN CONTACT WITH FLUID

|                           |                                |
|---------------------------|--------------------------------|
| Body                      | : Brass                        |
| Internal Parts            | : Stainless Steel, Brass       |
| Sealing                   | : NBR(On request; EPDM, VITON) |
| Shading Ring              | : Copper (EN 12735-1)          |
| Seats, Core Tube, Springs | : Stainless Steel              |

### OPTIONS

Female connection: BSP; (On request NPT)

- On request CR-Ni plated, PTFE coated done
- On request Atex (explosion proof) coil.

### TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms  
Closing Time : 30 ms

### SEALS FEATURES

NBR : -10°C...+80°C

EPDM : -10°C...+130°C

VITON : -10°C...+160°C

PTFE : -10°C...+160°C

RUBY : -10°C...+160°C



NORMALLY CLOSED

2/2 OPERATED

DIRECT ACTING

ΔP=0



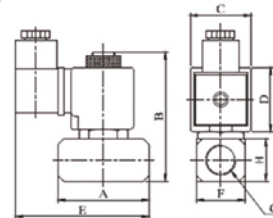
WATER



AIR



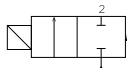
GAS



Dimensions (mm)

| G    | A  | B    | C  | D    | E    | F  | H  |
|------|----|------|----|------|------|----|----|
| 3/8" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |
| 1/2" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |

| Coils         | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------|----------------|-----------|--------|---------|-------------|--------------------------|
| C40012VDC18W  | 12VDC 18W      | COLD      | 19.56  | 19.56   | 1.63        | 20                       |
|               |                | HOT       | 14.52  | 14.52   | 1.21        | 106                      |
| C40024VDC18W  | 24VDC 18W      | COLD      | 20.88  | 20.88   | 0.87        | 25                       |
|               |                | HOT       | 14.64  | 14.64   | 0.61        | 116                      |
| C40110VDC18W  | 110VDC 18W     | COLD      | 19.96  | 19.96   | 0.18        | 23                       |
|               |                | HOT       | 13.56  | 13.56   | 0.123       | 115                      |
| C40012VAC15VA | 12VAC 15VA     | COLD      | 23.81  | 16.43   | 1.3         | 25                       |
|               |                | HOT       | -      | 15.86   | 1.262       | 79                       |
| C40024VAC15VA | 24VAC 15VA     | COLD      | 25.82  | 15.02   | 0.62        | 22                       |
|               |                | HOT       | -      | 13.91   | 0.57        | 81                       |
| C40110VAC15VA | 110VAC 15VA    | COLD      | 30.65  | 15.17   | 0.137       | 24                       |
|               |                | HOT       | -      | 13.96   | 0.126       | 80                       |
| C40230VAC15VA | 230VAC 15VA    | COLD      | 31.4   | 15.64   | 0.068       | 25                       |
|               |                | HOT       | -      | 14.41   | 0.063       | 80                       |
| C40230VAC24VA | 230VAC 24VA    | COLD      | 45.1   | 23.92   | 0.0154      | 23                       |
|               |                | HOT       | -      | 21.62   | 0.0154      | 100                      |

| Solenoid Vave<br>Symbol                                                             | Valve Type/<br>Order No | Connection<br>Size | Orifice<br>Size | Pressure<br>min/max |     | Kv    | Seal |                  |      | Weight |
|-------------------------------------------------------------------------------------|-------------------------|--------------------|-----------------|---------------------|-----|-------|------|------------------|------|--------|
|  | S1050                   | G                  | mm              | Bar                 | Bar | l/min | NBR  | Opsiyon<br>Viton | EPDM | kg     |
|                                                                                     | S1050.02.030            | 3/8"               | 3               | 0                   | 10  | 4.6   | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.02.040            | 3/8"               | 4               | 0                   | 9   | 6.4   | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.02.050            | 3/8"               | 5               | 0                   | 7   | 9.2   | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.02.060            | 3/8"               | 6               | 0                   | 6   | 11    | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.02.070            | 3/8"               | 7               | 0                   | 5   | 15    | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.02.080            | 3/8"               | 8               | 0                   | 3   | 17    | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.02.090            | 3/8"               | 9               | 0                   | 2   | 19    | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.02.100            | 3/8"               | 10              | 0                   | 1   | 25    | ✓    | ✓                | ✓    | 0,48   |
|                                                                                     | S1050.03.030            | 1/2"               | 3               | 0                   | 10  | 4.6   | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1050.03.040            | 1/2"               | 4               | 0                   | 9   | 6.4   | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1050.03.050            | 1/2"               | 5               | 0                   | 7   | 9.2   | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1050.03.060            | 1/2"               | 6               | 0                   | 6   | 11    | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1050.03.070            | 1/2"               | 7               | 0                   | 5   | 15    | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1050.03.080            | 1/2"               | 8               | 0                   | 3   | 17    | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1050.03.090            | 1/2"               | 9               | 0                   | 2   | 19    | ✓    | ✓                | ✓    | 0,47   |
|                                                                                     | S1050.03.100            | 1/2"               | 10              | 0                   | 1   | 25    | ✓    | ✓                | ✓    | 0,47   |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.
- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

Not: Please look catalogues for more details

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## General Purpose Solenoid Valves S1050 Series (G3/4", G1")

### GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

### ELECTRICAL CHARACTERISTICS

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Continuous Duty          | : ED %100                                                                                                  |
| Coil Insulation Class    | : H (180°C)(IEC 85)                                                                                        |
| Coil Impregnation        | : Polyester Fiber Glass                                                                                    |
| Ambient Temperature      | : -10°C, +60°C                                                                                             |
| Protection Degree        | : IP65 (ISO 60529) On request; IP68                                                                        |
| Electric Plug Connection | : DIN 46340 3-Poles Connector (DIN 43650)                                                                  |
| Connector Specification  | : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)                                              |
| Electrical Safety        | : IEC 335                                                                                                  |
| Standard Voltages        | : AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA, 230V 24VA, DC 12V 18W, 24V 18W, 48V 18W, 110V 18W |

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order

### MATERIALS IN CONTACT WITH FLUID

|                           |                                |
|---------------------------|--------------------------------|
| Body                      | : Brass                        |
| Internal Parts            | : Stainless Steel, Brass       |
| Sealing                   | : NBR(On request; EPDM, VITON) |
| Shading Ring              | : Copper (EN 12735-1)          |
| Seats, Core Tube, Springs | : Stainless Steel              |

### OPTIONS

Female connection: BSP; (On request NPT)

- On request CR-Ni plated, PTFE coated done
- On request Atex (explosion proof) coil.

### TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms  
Closing Time : 30 ms

### SEALS FEATURES

|       |                  |
|-------|------------------|
| NBR   | : -10°C...+80°C  |
| EPDM  | : -10°C...+130°C |
| VITON | : -10°C...+160°C |
| PTFE  | : -10°C...+160°C |
| RUBY  | : -10°C...+160°C |



NORMALLY CLOSED

2/2 OPERATED

DIRECT ACTING

ΔP=0



WATER

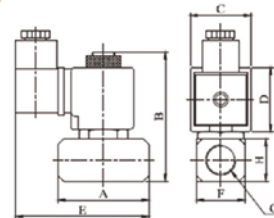


AIR

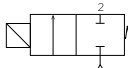


GAS

| Dimensions (mm) |    |    |    |      |      |    |    |
|-----------------|----|----|----|------|------|----|----|
| G               | A  | B  | C  | D    | E    | F  | H  |
| 3/4"            | 55 | 84 | 32 | 38.9 | 83.7 | 32 | 32 |
| 1"              | 60 | 92 | 32 | 38.9 | 86.2 | 40 | 40 |



| Coils         | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------|----------------|-----------|--------|---------|-------------|--------------------------|
| C40012VDC18W  | 12VDC 18W      | COLD      | 19.56  | 19.56   | 1.63        | 20                       |
|               |                | HOT       | 14.52  | 14.52   | 1.21        | 106                      |
| C40024VDC18W  | 24VDC 18W      | COLD      | 20.88  | 20.88   | 0.87        | 25                       |
|               |                | HOT       | 14.64  | 14.64   | 0.61        | 116                      |
| C40110VDC18W  | 110VDC 18W     | COLD      | 19.96  | 19.96   | 0.18        | 23                       |
|               |                | HOT       | 13.56  | 13.56   | 0.123       | 115                      |
| C40012VAC15VA | 12VAC 15VA     | COLD      | 23.81  | 16.43   | 1.3         | 25                       |
|               |                | HOT       | -      | 15.86   | 1.262       | 79                       |
| C40024VAC15VA | 24VAC 15VA     | COLD      | 25.82  | 15.02   | 0.62        | 22                       |
|               |                | HOT       | -      | 13.91   | 0.57        | 81                       |
| C40110VAC15VA | 110VAC 15VA    | COLD      | 30.65  | 15.17   | 0.137       | 24                       |
|               |                | HOT       | -      | 13.96   | 0.126       | 80                       |
| C40230VAC15VA | 230VAC 15VA    | COLD      | 31.4   | 15.64   | 0.068       | 25                       |
|               |                | HOT       | -      | 14.41   | 0.063       | 80                       |
| C40230VAC24VA | 230VAC 24VA    | COLD      | 45.1   | 23.92   | 0.0154      | 23                       |
|               |                | HOT       | -      | 21.62   | 0.0154      | 100                      |

| Solenoid Valve Symbol                                                               | Valve Type/ Order No | Connection Size | Orifice Size | Pressure min/max | Kv  | Seal  |       |      | Weight |
|-------------------------------------------------------------------------------------|----------------------|-----------------|--------------|------------------|-----|-------|-------|------|--------|
|                                                                                     |                      |                 |              |                  |     | NBR   | Viton | EPDM |        |
|  | S1050                | G               | mm           | Bar              | Bar | l/min |       |      | kg     |
|                                                                                     | S1050.04.030         | 3/4"            | 3            | 0                | 10  | 4.6   | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.04.040         | 3/4"            | 4            | 0                | 9   | 6.4   | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.04.050         | 3/4"            | 5            | 0                | 7   | 9.2   | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.04.060         | 3/4"            | 6            | 0                | 6   | 11    | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.04.070         | 3/4"            | 7            | 0                | 5   | 15    | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.04.080         | 3/4"            | 8            | 0                | 3   | 17    | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.04.090         | 3/4"            | 9            | 0                | 2   | 19    | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.04.100         | 3/4"            | 10           | 0                | 1   | 25    | ✓     | ✓    | 0,90   |
|                                                                                     | S1050.05.030         | 1"              | 3            | 0                | 10  | 4.6   | ✓     | ✓    | 0,85   |
|                                                                                     | S1050.05.040         | 1"              | 4            | 0                | 9   | 6.4   | ✓     | ✓    | 0,85   |
|                                                                                     | S1050.05.050         | 1"              | 5            | 0                | 7   | 9.2   | ✓     | ✓    | 0,85   |
|                                                                                     | S1050.05.060         | 1"              | 6            | 0                | 6   | 11    | ✓     | ✓    | 0,85   |
|                                                                                     | S1050.05.070         | 1"              | 7            | 0                | 5   | 15    | ✓     | ✓    | 0,85   |
|                                                                                     | S1050.05.080         | 1"              | 8            | 0                | 3   | 17    | ✓     | ✓    | 0,85   |
|                                                                                     | S1050.05.090         | 1"              | 9            | 0                | 2   | 19    | ✓     | ✓    | 0,85   |
|                                                                                     | S1050.05.100         | 1"              | 10           | 0                | 1   | 25    | ✓     | ✓    | 0,85   |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.
- TORQ solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

**Not:** Please look catalogues for more details

[www.smstork.com](http://www.smstork.com)

## General Purpose Solenoid Valves S1051 Series (G3/8", G1/2")

### GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

### ELECTRICAL CHARACTERISTICS

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Continuous Duty          | : ED %100                                                                                                  |
| Coil Insulation Class    | : H (180°C)(IEC 85)                                                                                        |
| Coil Impregnation        | : Polyester Fiber Glass                                                                                    |
| Ambient Temperature      | : -10°C, +60°C                                                                                             |
| Protection Degree        | : IP65 (ISO 60529) On request; IP68                                                                        |
| Electric Plug Connection | : DIN 46340 3-Poles Connector (DIN 43650)                                                                  |
| Connector Specification  | : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)                                              |
| Electrical Safety        | : IEC 335                                                                                                  |
| Standard Voltages        | : AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA, 230V 24VA, DC 12V 18W, 24V 18W, 48V 18W, 110V 18W |

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order

### MATERIALS IN CONTACT WITH FLUID

|                           |                                |
|---------------------------|--------------------------------|
| Body                      | : Brass                        |
| Internal Parts            | : Stainless Steel, Brass       |
| Sealing                   | : NBR(On request; EPDM, VITON) |
| Shading Ring              | : Copper (EN 12735-1)          |
| Seats, Core Tube, Springs | : Stainless Steel              |

### OPTIONS

- Female connection: BSP; (On request NPT)
- On request CR-Ni plated, PTFE coated done
- On request Atex (exp-proof) coil.
- On request, manual control can be added.

### TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms  
Closing Time : 30 ms

### SEALS FEATURES

NBR : -10°C...+80°C

EPDM : -10°C...+130°C

VITON : -10°C...+160°C

PTFE : -10°C...+160°C

RUBY : -10°C...+160°C



NORMALLY OPEN

2/2 OPERATED

DIRECT ACTING

ΔP=0



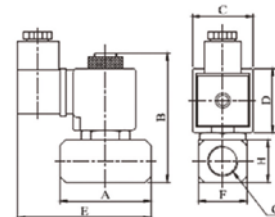
WATER



AIR



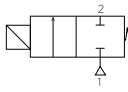
GAS



Dimensions (mm)

|      | G  | A    | B  | C    | D    | E  | F  | H |
|------|----|------|----|------|------|----|----|---|
| 3/8" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |   |
| 1/2" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |   |

| Coils         | Nominal Values | Cold/Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------|----------------|----------|--------|---------|-------------|--------------------------|
| C40012VDC18W  | 12VDC 18W      | COLD     | 19,56  | 19,56   | 1,63        | 20                       |
|               |                | HOT      | 14,52  | 14,52   | 1,21        | 106                      |
| C40024VDC18W  | 24VDC 18W      | COLD     | 20,88  | 20,88   | 0,87        | 25                       |
|               |                | HOT      | 14,64  | 14,64   | 0,61        | 116                      |
| C40110VDC18W  | 110VDC 18W     | COLD     | 19,96  | 19,96   | 0,18        | 23                       |
|               |                | HOT      | 13,56  | 13,56   | 0,123       | 115                      |
| C40012VAC15VA | 12VAC 15VA     | COLD     | 23,81  | 16,43   | 1,3         | 25                       |
|               |                | HOT      | -      | 15,86   | 1,262       | 79                       |
| C40024VAC15VA | 24VAC 15VA     | COLD     | 25,82  | 15,02   | 0,62        | 22                       |
|               |                | HOT      | -      | 13,91   | 0,57        | 81                       |
| C40110VAC15VA | 110VAC 15VA    | COLD     | 30,65  | 15,17   | 0,137       | 24                       |
|               |                | HOT      | -      | 13,96   | 0,126       | 80                       |
| C40230VAC15VA | 230VAC 15VA    | COLD     | 31,4   | 15,64   | 0,068       | 25                       |
|               |                | HOT      | -      | 14,41   | 0,063       | 80                       |
| C40230VAC24VA | 230VAC 24VA    | COLD     | 45,1   | 23,92   | 0,0154      | 23                       |
|               |                | HOT      | -      | 21,62   | 0,0154      | 100                      |

| Solenoid Valve Symbol                                                               | Valve Type/Order No | Connection Size | Orifice Size | Pressure min/max | Kv  | Seal  | Weight |
|-------------------------------------------------------------------------------------|---------------------|-----------------|--------------|------------------|-----|-------|--------|
|  | S1051               | G               | mm           | Bar              | Bar | l/min |        |
|                                                                                     |                     |                 |              |                  |     |       |        |
|                                                                                     | S1051.02.018        | 3/8"            | 1.8          | 0                | 12  | 1.6   | ✓      |
|                                                                                     | S1051.02.025        | 3/8"            | 2.5          | 0                | 10  | 3.2   | ✓      |
|                                                                                     | S1051.02.030        | 3/8"            | 3.0          | 0                | 5   | 4.6   | ✓      |
|                                                                                     | S1051.03.018        | 1/2"            | 1.8          | 0                | 12  | 1.6   | ✓      |
|                                                                                     | S1051.03.025        | 1/2"            | 2.5          | 0                | 10  | 3.2   | ✓      |
|                                                                                     | S1051.03.030        | 1/2"            | 3.0          | 0                | 5   | 4.6   | ✓      |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.
- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

Not: Please look catalogues for more details

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