

## 2/2-way solenoid valve

2/2-way type

Art. No. 148612

Type No. MVA.MS.24V.G12.0-50B



Exemplary illustration

The standard series in the versions

- directly operated
- pilot operated

Cable plug in acc. with ISO 4400

Medium temperature max. 80 °C

### Technical data

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Housing               | Brass                                               |
| Valve seat            | Stainless steel                                     |
| Internal parts        | Stainless steel                                     |
| Protection IP         | IP 65                                               |
| Type                  | 1                                                   |
| Thread                | G 1/2 IT                                            |
| Operating pressure    | 0 - 50 bar                                          |
| Sealant               | NBR                                                 |
| Electrical connection | ISO 4400 / EN 175301-803 industrial standard type A |
| Medium temperature    | -10 to 80 °C                                        |
| Ambient temperature   | -10 to 60 °C                                        |
| Standard thread       | ISO 228-1                                           |
| Opening               | 1.8 mm                                              |
| A                     | 79.5 mm                                             |
| B                     | 50.0 mm                                             |
| C                     | 80.5 mm                                             |

## Commercial data

|                         |                 |
|-------------------------|-----------------|
| Customs tariff number   | 84812090        |
| Country of origin       | TR              |
| eCl@ss 5.1.4            | 27220601        |
| eCl@ss 9.0              | 27220601        |
| UNSPSC_Code_v190501     | 40141605        |
| UNSPSC_CodeDesc_v190501 | Solenoid valves |

## Material informations

|                            |                         |
|----------------------------|-------------------------|
| REACH SVHC1 substance name | lead                    |
| CAS no. SVHC 1             | 7439-92-1               |
| RoHS materials notice      | RoHS compliant          |
| REACH Info                 | contains SVHC substance |

## General Purpose Solenoid Valves S1053 Series (G3/8", G1/2")

### GENERAL FEATURES

- Coil Impregnation : Reinforced Fiber Glass
  - Protection Class : IP65 (ISO 60529) On request; IP68
  - Connector Specification : ISO 4400 / EN 175301-803 Form A, Terminal (Cable Ø6-8 mm)
  - On request; Connector with LED, PWM Socket.
- Specify coil voltage with order.  
See coil section for detailed information.

### 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



NORMALLY CLOSED

2/2 OPERATED

DIRECT ACTING

ΔP=0



WATER

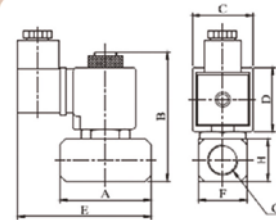


AIR



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 |



### MATERIALS

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

### OPTIONS

Connection: BSP; (On request NPT)

• On request CR-Ni or PTFE coated

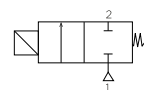
• On request Atex (explosion proof) coil.

### TECHNICAL FEATURES

Max. Viscosity : 5°E (~37cSt veya mm²/s)

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

| 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 |
|-------------------------------------------------------------------------------------|----------------------|-----------------|--------------|------------------|-----|-------|--------|
|  | S1053                | G               | mm           | Bar              | Bar | l/min |        |
|                                                                                     |                      |                 |              |                  |     |       |        |
|                                                                                     | S1053.02.018         | 3/8"            | 1.8          | 0                | 50  | 1.6   | ✓      |
|                                                                                     | S1053.02.025         |                 | 2.5          | 0                | 20  | 3.2   | ✓      |
|                                                                                     | S1053.03.018         | 1/2"            | 1.8          | 0                | 50  | 1.6   | ✓      |
|                                                                                     | S1053.03.025         |                 | 2.5          | 0                | 20  | 3.2   | ✓      |

### STANDARDS

- Standard tube connections 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

## General Purpose Solenoid Valves S1053 Series (G3/4", G1")

### GENERAL FEATURES

- Coil Impregnation : Reinforced Fiber Glass
  - Protection Class : IP65 (ISO 60529) On request; IP68
  - Connector Specification : ISO 4400 / EN 175301-803 Form A, Terminal (Cable Ø6-8 mm)
  - On request; Connector with LED, PWM Socket.
- Specify coil voltage with order.  
See coil section for detailed information.

### 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



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2/2 OPERATED

DIRECT ACTING

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WATER

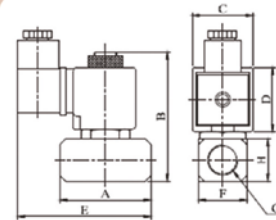


AIR



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 |



### MATERIALS

|                          |                                 |
|--------------------------|---------------------------------|
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| Sealing                  | : NBR (On request; EPDM, VITON) |
| Ring                     | : Copper (EN 12735-1)           |
| Core, Core Tube, Springs | : Stainless Steel               |

### OPTIONS

Connection: BSP; (On request NPT)

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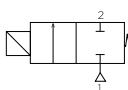
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### TECHNICAL FEATURES

Max. Viscosity : 5°E (~37cSt veya mm²/s)

Response Time : Opening time : 30 ms  
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| Coils         | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
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| C40012VDC18W  | 12VDC 18W      | COLD      | 19.56  | 19.56   | 1.63        | 20                       |
|               |                | HOT       | 14.52  | 14.52   | 1.21        | 106                      |
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|               |                | HOT       | 14.64  | 14.64   | 0.61        | 116                      |
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| C40012VAC15VA | 12VAC 15VA     | COLD      | 23.81  | 16.43   | 1.3         | 25                       |
|               |                | HOT       | -      | 15.86   | 1.262       | 79                       |
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|               |                | HOT       | -      | 14.41   | 0.063       | 80                       |
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|               |                | HOT       | -      | 21.62   | 0.0154      | 100                      |

| Solenoid Valve Symbol                                                               | Valve Type/ Order No | Connection Size | Orifice Size | Pressure min/max | Kv  | Seal  | Weight |
|-------------------------------------------------------------------------------------|----------------------|-----------------|--------------|------------------|-----|-------|--------|
|  | S1053                | G               | mm           | Bar              | Bar | l/min |        |
|                                                                                     |                      |                 |              |                  |     |       |        |
|                                                                                     | S1053.04.018         | 3/4"            | 1.8          | 0                | 50  | 1.6   | ✓      |
|                                                                                     | S1053.04.025         |                 | 2.5          | 0                | 20  | 3.2   | ✓      |
|                                                                                     | S1053.05.018         | 1"              | 1.8          | 0                | 50  | 1.6   | ✓      |
|                                                                                     | S1053.05.025         |                 | 2.5          | 0                | 20  | 3.2   | ✓      |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.
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