

Drain Solenoid Valves S8110 Series (G1/8", G1/4")

GENERAL FEATURES

- The standby and drainage periods can be regulated by the timer on itself. It is attached to the part of the valve which is drained. The valve is opened to drain on time which the timer is programmed.
- On request; normally open types
- Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)
- Working temperature: -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- Don't require any differential pressure to operate
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- On request; solenoid valve can have 1 mounting hole at the bottom of
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC. Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD)
- Some applications; separator main drainage
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow O can be calculated as a function of pressure
- · Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 12031)

ELECTRICAL CHARACTERISTICS

Continuous Duty : ED %100 Coil Insulation Class : H (180°C)

: Polyester Fiber Glass Coil Impregnation Coil Encapsulation Material: Fiber Glass Reinforced

Ambient Temperature : -10°C, +60°C

: P 65 (EN 60529) with coil duly fitted with Protection Degree

the plug connector

Electric Plug Connection : DIN 46340 3-Poles Connector (DIN 43650)

: ISO 4400 / EN 175301-803 Form A, Connector Specification

Spade Plug (Cable Ø6-8 mm)

Electrical Safety : IEC 335

Standard Voltages : For AC 12V, 24V, 48V, 11DV, 230V For DC 12V, 24V, 48V, 110 V

On request other voltages

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

: 50 Hz, other frequencies on request; (60 Hz) Frequency

On request; connector with LED Specify coil voltage with order



NORMALLY CLOSED 2 WAY DIRECT ACTING

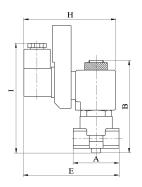
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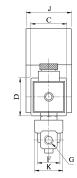












| | | Dim | ensid | ons (| mm |) | | | | |
|------|----|-----|-------|-------|----|------|----|-----|------|------|
| G | Α | В | С | D | Ε | F | Н | - 1 | J | K |
| 1/8" | 40 | 83 | 32 | 39 | 95 | 22.3 | 76 | 95 | 42.3 | 25.6 |
| 1/4" | 40 | 83 | 32 | 39 | 95 | 22.3 | 76 | 95 | 42.3 | 25.6 |

MATERIALS IN CONTACT WITH FLUID

Body · Brass Internal Parts : Stainless Steel Sealing : NBR,

Shading Ring : Copper (EN 12735-1) Seats, Core Tube, Springs: Stainless Steel On request; sealing can be FPM (VITON), EPDM

TECHNICAL FEATURES

Max. Viscosity : 5°E (~37cST veya mm²/s) Response Time : Opening time : 30 ms Closing Time : 30 ms

Allowable Pressure:30 bar

Fluid Temperature for FPM (VITON) from -10°C +160 °C, for EPDM from -10°C; +140°C

| Coils | Values | Hot | Inrush | Holding | (A) | Temperature (°c) |
|---------------------|-----------------|------|--|---------|--|---------------------|
| C40012VDC18W | 12VDC 18W | COLD | 19,56 | 19,56 | 1,63 | 20 |
| C40012VDC16VV | 12 V D C 16 V V | HOT | 14,52 | 14,52 | 1,21 | 106 |
| C40024VDC18W | 24VDC 18W | COLD | 20,88 | 20,88 | 0,87 | 25 |
| C40024 V D C 16 V V | 24 V D C 16 V V | HOT | 14,64 | 14,64 | 0,61 | 1 cmperature (°c) |
| C40110VDC18W | 110VDC 18W | COLD | 19,96 | 19,96 | 19,56 1,63 14,52 1,21 20,88 0,87 14,64 0,61 | 23 |
| C40110 V D C 16 V V | IIOVDC I6VV | HOT | 13,56 | 13,56 | 0,123 | 115 |
| C40012VAC15VA | 12VAC 15VA | COLD | 23,81 | 16,43 | 1,3 | 25 |
| | IZVAC ISVA | HOT | - | 15,86 | 1,262 | 79 |
| C40024VAC15VA | 24VAC 15VA | COLD | 25,82 | 15,02 | 0,62 | 22 |
| C40024VACI3VA | 24VAC 13VA | HOT | - | 13,91 | 0,57 | 81 |
| C40110VAC15VA | 110VAC 15VA | COLD | 30,65 | 15,17 | 0,137 | 24 |
| C40110VACISVA | 110VAC ISVA | HOT | - | 13,96 | 0,126 | 80 |
| C40230V/AC15V/A | 230VAC 15VA | COLD | 31,4 | 15,64 | 0,068 | 25 |
| C40230VAC15VA | 230 VAC 13 VA | HOT | - | 14,41 | 0,063 | 80 |
| C40230VAC15VA | 230VAC 24VA | COLD | 45,1 | 23,92 | 0,0154 | 23 |
| C40230 VACI3 VA | 230 VAC 24 VA | HOT | LD 19,56 19,56 1,63 DT 14,52 14,52 1,21 LD 20,88 20,88 0,87 DT 14,64 14,64 0,61 LD 19,96 19,96 0,18 DT 13,56 13,56 0,123 LD 23,81 16,43 1,3 DT - 15,86 1,262 LD 25,82 15,02 0,62 DT - 13,91 0,57 LD 30,65 15,17 0,137 DT - 13,96 0,126 LD 31,4 15,64 0,068 DT - 14,41 0,063 LD 45,1 23,92 0,0154 | 100 | | |

Not: Please look catalogues for more details

STANDARDS

 Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 1.20.3)) are available

• TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

| Solenoid Symb | |
|------------------|-------|
| | 2 |

| e | Valve Type/ Order No | Connection Size | Kv | | | | | | | | | | Fluid Temperature | | | | | | | | | | | | | | Seal | Weight |
|---|-------------------------|--------------------|-----|-----|-----|-------|-----|-----|-----|------|--|--|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|------|--------|
| ٦ | S8110 | S8110 G | | Bar | Bar | I/min | °C | | NBR | kg | | | | | | | | | | | | | | | | | | |
| M | | | | | | , | mm | max | | Ng | | | | | | | | | | | | | | | | | | |
| | S8110.00.018 | 1/8" | 1.8 | 0 | 16 | 1.6 | -10 | 80 | ✓ | 0.36 | | | | | | | | | | | | | | | | | | |
| | S8110.01.018 | 1/4" | 1.8 | 0 | 16 | 1.6 | -10 | 80 | ✓ | 0.35 | | | | | | | | | | | | | | | | | | |



Drain Solenoid Valves S8110 Series (G3/8", G1/2", G3/4", G1")

GENERAL FEATURES

- TORK series S8110 diaphragm drain solenoid valves are 2/2 way normally closed and pilot operated
- The standby and drainage periods can be regulated by the timer on itself. It is attached to the part of the valve which is drained. The valve is opened to drain on time which the timer is programmed.
- On request; normally open types
- Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)
- Working Temperature -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- Minimum operating differential pressure 0,5 bar
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD)
- Some applications; separator main drainage
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available INPT (ANSI 12031)

ELECTRICAL CHARACTERISTICS

Continuous Duty : ED %100 Coil Insulation Class : H (180°C)

: Polyester Fiber Glass Coil Impregnation Coil Encapsulation Material: Fiber Glass Reinforced

Ambient Temperature : -10°C, +60°C

Protection Degree : P 65 (EN 60529) with coil duly fitted with

the plug connector

: DIN 46340 3-Poles Connector (DIN 43650) Electric Plug Connection

Connector Specification : ISO 4400 / EN 175301-803 Form A,

Spade Plug (Cable Ø6-8 mm)

Electrical Safety · IFC 335

Standard Voltages : For AC 12V, 24V, 48V, 11DV, 230V

For DC 12V, 24V, 48V, 110 V

On request other voltages

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

Frequency : 50 Hz, other frequencies on request; (60 Hz)

On request; connector with LED Specify coil

voltage with order

MATERIALS IN CONTACT WITH FLUID

Body : Brass

Internal Parts Stainless Steel Sealing : NBR.

Shading Ring

: Copper (EN 12735-1)

Seats, Core Tube, Springs: Stainless Steel On request; sealing can be FPM (VITON), EPDM

TECHNICAL FEATURES

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

Response Time: Opening time: 400 ms to - 1600 ms

Closing Time: 1000 ms to - 2000 ms

Allowable Pressure: 25 bar

Fluid Temperature for FPM (VITON) from -10°C +160 °C, for EPDM from -10°C; +140°C

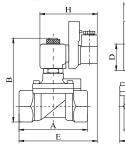
NORMALLY CLOSED 2 WAY PILOT OPERATED

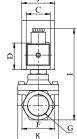
∆P=0,5











| Dimensions (mm) | | | | | | | | | | | |
|-----------------|----------|------------------------------|---|--|--|---|--|--|---|--|--|
| Α | В | С | D | Ε | F | Н | ı | J | K | | |
| 72 | 97.7 | 32 | 45 | 109.3 | 37.5 | 76 | 108 | 42.3 | 52.5 | | |
| 80 | 99.2 | 32 | 45 | 110 | 39.8 | 76 | 110 | 42.3 | 52.5 | | |
| 78 | 106 | 32 | 45 | 112 | 41.5 | 76 | 118 | 42.3 | 52.5 | | |
| 85 | 112.5 | 32 | 45 | 115 | 42.5 | 76 | 124 | 42.3 | 52.5 | | |
| | 80 78 | 72 97.7 80 99.2 78 106 | A B C 72 97.7 32 80 99.2 32 78 106 32 | A B C D 72 97.7 32 45 80 99.2 32 45 78 106 32 45 | A B C D E 72 97.7 32 45 109.3 80 99.2 32 45 110 78 106 32 45 112 | A B C D E F 72 97.7 32 45 109.3 37.5 80 99.2 32 45 110 39.8 78 106 32 45 112 41.5 | A B C D E F H 72 97.7 32 45 109.3 37.5 76 80 99.2 32 45 110 39.8 76 78 106 32 45 112 41.5 76 | A B C D E F H I 72 97.7 32 45 109.3 37.5 76 108 80 99.2 32 45 110 39.8 76 110 78 106 32 45 112 41.5 76 118 | A B C D E F H I J 72 97.7 32 45 109.3 37.5 76 108 42.3 80 99.2 32 45 110 39.8 76 110 42.3 78 106 32 45 112 41.5 76 118 42.3 | | |

| Coils | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------------|-------------------|--------------|--------|---------|----------------|--------------------------------|
| C40012VDC18W | 12VDC 18W | COLD | 19,56 | 19,56 | 1,63 | 20 |
| C40012 V D C 16 V V | 12 V D C 10 V V | HOT | 14,52 | 14,52 | 1,21 | 106 |
| C40024VDC18W | 24VDC 18W | COLD | 20,88 | 20,88 | 0,87 | 25 |
| C40024 VDC16 VV | 24000 1000 | HOT | 14,64 | 14,64 | 0,61 | 116 |
| C40110VDC18W | 110VDC 18W | COLD | 19,96 | 19,96 | 0,18 | 23 |
| C40110 V D C 16 V V | 110 V D C 16 V V | HOT | 13,56 | 13,56 | 0,123 | 115 |
| C40012VAC15VA | 12VAC 15VA | COLD | 23,81 | 16,43 | 1,3 | 25 |
| C400IZVACISVA | 12VAC 15VA | HOT | - | 15,86 | 1,262 | 79 |
| C40024VAC15VA | 24VAC 15VA | COLD | 25,82 | 15,02 | 0,62 | 22 |
| C40024 VACISVA | 24VAC 15VA | HOT | - | 13,91 | 0,57 | 81 |
| C40110\/AC1E\/A | 110VAC 15VA | COLD | 30,65 | 15,17 | 0,137 | 24 |
| C40110VAC15VA | IIUVAC ISVA | HOT | - | 13,96 | 0,126 | 80 |
| C40230VAC15VA | 230VAC 15VA | COLD | 31,4 | 15,64 | 0,068 | 25 |
| C40230VACISVA | 230 VAC 15 VA | HOT | - | 14,41 | 0,063 | 80 |
| C40270\/AC1E\/A | 230VAC 24VA | COLD | 45,1 | 23,92 | 0,0154 | 23 |
| C40230VAC15VA | 230 VAC 24 VA | HOT | - | 21,62 | 0,0154 | 100 |

Pressure

05

0.5

16

16

25

90

-10

-10

80

80

 \cap 8

0.97

| | Symbol | Order No | Size | Size | min/max | | | Temperature | | | |
|--|--------------|----------|------|------|---------|-----|--------|-------------|-----|--------------|------|
| Not: Please look catalogues for more details. | | 00110 | 6 | | Davis | D | L/aata | 0 | С | | Lin |
| STANDARDS • Standard tube connection G (BSP) (ISO 228-1) and | 2 <u>1</u> W | S8110 | G | mm | Bar | Bar | I/min | mm | max | NBR | kg |
| other tube connections (NPT (ANSI 1.20.3)) are available on request. | | S8110.02 | 3/8" | 12.5 | 0.5 | 16 | 48 | -10 | 80 | \checkmark | 0,68 |
| TORK solenoid valves 97/23/EC, are available for | Ţ1 | S8110.03 | 1/2" | 14.5 | 0.5 | 16 | 70 | -10 | 80 | ✓ | 0,71 |

Solenoid Vave

Valve Type/ Connection Orifis

3//"

17

17

pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

S8110 04

S8110.05