




**SOLENOID VALVE**



ISO 9001  
Quality 

ISO 14001  
Environment 

OHSAS 18001  
Health & Safety 



## DIRECT OPERATED SOLENOID VALVE N.C AND N.O, 2/2 WAY, G3/8" UP TO G1/2", 0 TO 10 BAR

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### DESCRIPTION

- Fluids: Valves are suitable for water, low viscosity oils, etc... non-aggressive liquids and Air, Inert Gas, etc... gaseous but is not suitable for hazardous fluids
- Switching Function: Normally Closed (N.C, Closed when de-energized) (CBSVG 100 Series) and Normally Open (N.O, Open when de-energized) (CBSVG 101 Series)
- Principle of Operation: Direct Operated
- Way Number: 2/2 (Ports / Positions)
- Connection and Port Sizes: G1/8" and G1/4"
- Connection Type: Thread (Female), G (BSPP / ISO 228-1)
- Pressure Range: 0 -16 Bar (CBSVG 100 Series) , 0-12 Bar (CBSVG 101 Series)
- Fluid Temperature: -10°C to max. 80°C , Ambient Temperature: -20°C to max. 70°C
- Opening Time: 25 ms, Closing Time: 25 ms
- Max Viscosity: 38 cSt or mm<sup>2</sup>/s
- Maximum Allowable Pressure or Design Pressure: 24 bar (CBSVG 100 Series), 18 Bar (CBSVG 101 Series)



### FEATURES

- Don't require differential pressure, internal exhaust system (for CBSVG 101 Series)
- Compact design
- Valve has sealing o-rings
- Suitable AC and DC voltage, high voltage tolerance
- Coil interchangeable without dismantling the valve (don't matter AC or DC)
- Low flow loss, low power loss
- Various flow rate options, wide range of pressure ratings, wide range of orifice options
- Mounting position, optional any position but preferably solenoid coil vertical on top
- The fluid passing through the valve must be filtered
- Flow rate (Q) can be usually calculated as a function of pressure, density and flow coefficient
- According to 97/23/EC Pressure Equipment Directive (PED), 2006/95/EEC Low Voltage Directive (LVD) and 2004/108/EC Electromagnetic Compatibility Directive (EMC).

| MODEL NO | POSITION | CONNECTION AND PORT SIZE | ORIFICE SIZE | FLOW FACTOR / COEFFICIENT KV |                   | OPERATING PRESSURE DIFFERENTIAL |               |               |               | FLUID TEMPERATURE   |                     | SEAL | APPROXIMATE WEIGHT |
|----------|----------|--------------------------|--------------|------------------------------|-------------------|---------------------------------|---------------|---------------|---------------|---------------------|---------------------|------|--------------------|
|          |          |                          |              |                              |                   | MIN. (FOR AC)                   | MIN. (FOR DC) | MAX. (FOR AC) | MAX. (FOR DC) | MIN. O <sub>c</sub> | MAX. O <sub>c</sub> |      |                    |
| CONVALVE |          | G                        | mm           | L /m                         | m <sup>3</sup> /h | Bar                             | Bar           | Bar           | Bar           | O <sub>c</sub>      | O <sub>c</sub>      |      | kg                 |
| CBSVG    | N.C      | 3/8"                     | 5            | 9.5                          | 0.57              | 0                               | 0             | 7             | 7             | -10                 | 80                  | NBR  | 0.47               |
| CBSVG    | N.C      | 1/2"                     | 5            | 9.5                          | 0.57              | 0                               | 0             | 7             | 7             | -10                 | 80                  | NBR  | 0.44               |
| CBSVG A  | N.O      | 3/8"                     | 2.5          | 3.3                          | 0.19              | 0                               | 0             | 10            | 10            | -10                 | 80                  | NBR  | 0.5                |
| CBSVG A  | N.O      | 1/2"                     | 2.5          | 3.3                          | 0.19              | 0                               | 0             | 10            | 10            | -10                 | 80                  | NBR  | 0.47               |



## OPTIONS

- Custom options can be performed for customer's special requests
- On request; NPT (ANSI 1.20.3), R (BSPT / ISO 7-1), W (BSW / Whitworth), M (Metric) etc...
- On request; diaphragm or sealing or o-rings can be FPM (VITON) (-10°C to 160°C), EPDM (-10°C to 140°C)
- On request; various body surface coating, nickel plated body, different body materials, internal parts stainless steel (for CBSVG 101), manual override, the seat can be stainless steel, filter, other pipe connections, 2 mounting sub-base holes at the bottom of the body
- On request; other special supply voltages, frequencies (60 Hz), other power, coil insulation class: F (155°C), coil duty latching model
- On request; with electronic timer, Explosion-Proof coil for use in zones 1/21-2/22 (Eex em II T4/T5), coil encapsulation material can be fiber glass reinforced (V0 or V1)
- On request; connector with LED or without connector, connector with visual indication and peak voltage suppression, connector with a cable length of 2m, Spade plug (Cable Ø 8-10 mm), connector non-flammable
- On request other versions

## ELECTRICAL CHARACTERISTIC

- Protection Degree: IP 65 (EN 60529) ( with connector )
- Plug Connection: DIN 46340-3 poles connectors (DIN 43650)
- Connector Specification: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety: IEC 335, EN 60335-1, EN 60204-1
- Coil Insulation Class: H (1800C)
- Coil Impregnation: Polyester Fiber-Resin Glass
- Coil Encapsulation Material: Fiber Glass Reinforced (V2)
- Supply Voltages: For AC(~) 12V, 24V, 48V, 110V, 230V
- For DC (=) 12V , 24V , 48V , 110 V, 230 V
- Voltage Tolerances: For AC (~) or DC (=) %-10 ; %+10
- Frequency: 50 Hz
- Coil Duty Cycle: %100 ED, Continuously Rated
- Design according to DIN VDE 0580

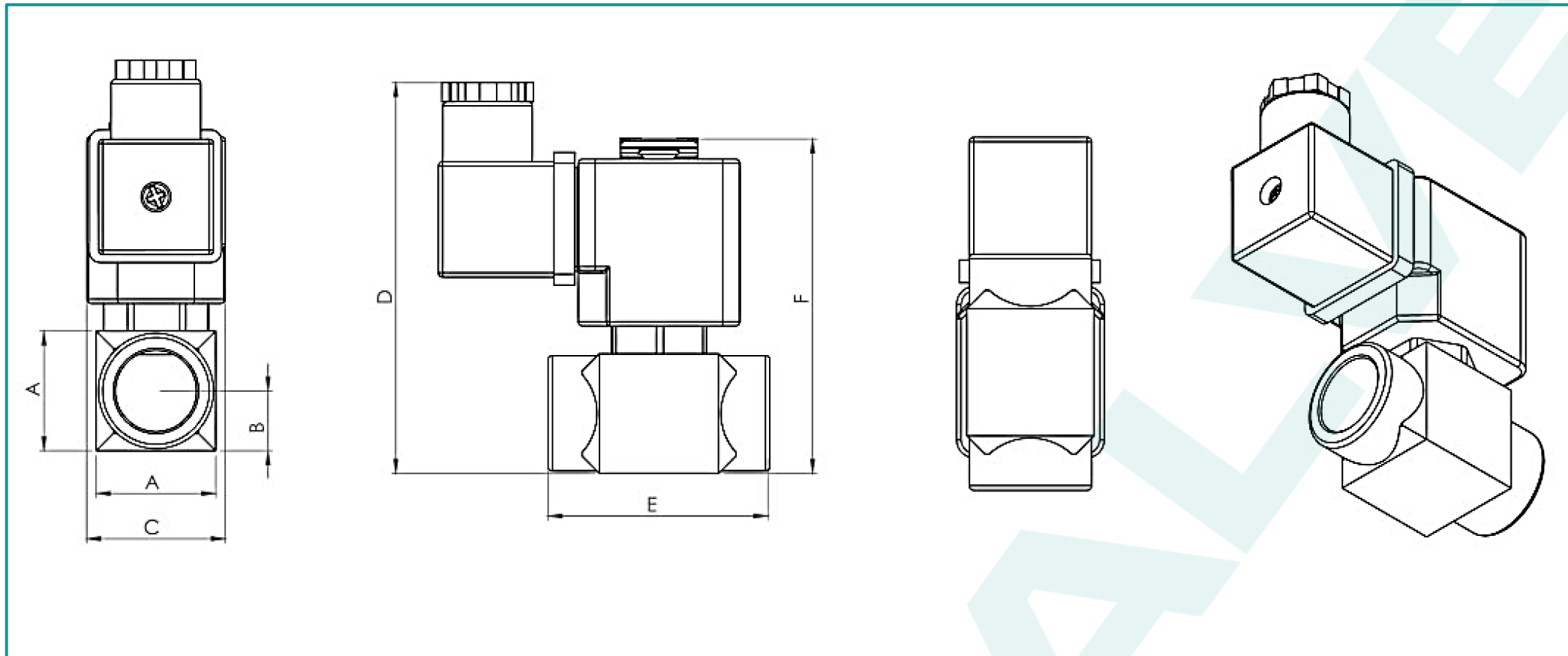
## APPLICATION

- Cooling Applications
- Gas Boilers
- Water Treatment Systems
- Garden Irrigation Systems
- Central Heating Systems
- Air Working Textile Machines

## MATERIAL

|                             |   |
|-----------------------------|---|
| <b>BODY</b>                 | Brass   |
| <b>PLUNGER SEAL</b>         | NBR   |
| <b>ENCLOSING TUBE</b>       | Stainless Steel (AISI 430FR and AISI 304) for CBSVG 100 Series , Stainless Steel (AISI 430FR and AISI 304) and Brass for CBSVG 101 Series |
| <b>PLUNGER</b>              | Stainless Steel (AISI 430FR)  |
| <b>SPRINGS</b>              | Stainless Steel (AISI 302)  |
| <b>SHADING RING</b>         | Copper  |
| <b>RETAINER RING</b>        | Carbon steel +epoxy/ SS304  |
| <b>SEAT</b>                 | Brass   |
| <b>O-RINGS</b>              | NBR   |
| <b>INTERNAL METAL PARTS</b> | Stainless Steel and Brass   |

**DIMENSIONS MM**



| SIZE | A  | B  | C    | D    | E    | F    |
|------|----|----|------|------|------|------|
| 3/8" | 28 | 14 | 32.5 | 91.5 | 51.5 | 78.2 |
| 1/2" | 28 | 14 | 32.5 | 91.5 | 51.5 | 78.2 |

**POWER CONSUMPTION**

**ALTERNATING CURRENT (AC)**

**DIRECT CURRENT (DC)**

| MODEL NO       | VOLTAGE | INRUSH (VA) | HOLDING (VA) | MODEL NO       | VOLTAGE | COLD (W) | HOT (W) |
|----------------|---------|-------------|--------------|----------------|---------|----------|---------|
| CVCO 10.AC.012 | 12V     | 30          | 18           | CVCO 10.DC.012 | 12V     | 16       | 12      |
| CVCO 10.AC.024 | 24V     | 30          | 18           | CVCO 10.DC.024 | 24V     | 16       | 12      |
| CVCO 10.AC.048 | 48V     | 30          | 18           | CVCO 10.DC.048 | 48V     | 16       | 12      |
| CVCO 10.AC.110 | 110V    | 30          | 18           | CVCO 10.DC.110 | 110V    | 16       | 12      |
| CVCO 10.AC.230 | 230V    | 30          | 18           | CVCO 10.DC.230 | 230V    | 16       | 12      |



## DIRECT OPERATED SOLENOID VALVE VALVE N.C AND N.O, 2/2 WAY, G3/4" UP TO G1", 0 TO 10 BAR

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### DESCRIPTION

- Fluids: Valves are suitable for water, low viscosity oils, etc... non-aggressive liquids and Air, Inert Gas, etc... gaseous but is not suitable for hazardous fluids
- Switching Function: Normally Closed (N.C, Closed when de-energized) (CBSVG 100 Series) and Normally Open (N.O, Open when de-energized) (CBSVG 101 Series)
- Principle of Operation: Direct Operated
- Way Number: 2/2 (Ports / Positions)
- Connection and Port Sizes: G3/4" and G1"
- Connection Type: Thread (Female), G (BSPP / ISO 228-1)
- Pressure Range: 0 -7 Bar (CBSVG 120 Series) , 0-10 Bar (CBSVG 101 Series)
- Fluid Temperature: -10°C to max. 80°C , Ambient Temperature: -20°C to max. 70°C
- Opening Time: 25 ms, Closing Time: 25 ms
- Max Viscosity: 38 cSt or mm<sup>2</sup>/s
- Maximum Allowable Pressure or Design Pressure: 24 bar (CBSVG 100 Series), 18 Bar (CBSVG 101 Series)



### FEATURES

- Don't require differential pressure, internal exhaust system (for CBSVG 101 Series)
- Compact design
- Valve has sealing o-rings
- Suitable AC and DC voltage, high voltage tolerance
- Coil interchangeable without dismantling the valve (don't matter AC or DC)
- Low flow loss, low power loss
- Various flow rate options, wide range of pressure ratings, wide range of orifice options
- Mounting position, optional any position but preferably solenoid coil vertical on top
- The fluid passing through the valve must be filtered
- Flow rate (Q) can be usually calculated as a function of pressure, density and flow coefficient
- According to 97/23/EC Pressure Equipment Directive (PED), 2006/95/EEC Low Voltage Directive (LVD) and 2004/108/EC Electromagnetic Compatibility Directive (EMC).

| MODEL NO | POSITION | CONNECTION AND PORT SIZE | ORIFICE SIZE | FLOW FACTOR / COEFFICIENT KV |                   | OPERATING PRESSURE DIFFERENTIAL |               |               |               | FLUID TEMPERATURE   |                     | SEAL | APPROXIMATE WEIGHT |
|----------|----------|--------------------------|--------------|------------------------------|-------------------|---------------------------------|---------------|---------------|---------------|---------------------|---------------------|------|--------------------|
|          |          |                          |              |                              |                   | MIN. (FOR AC)                   | MIN. (FOR DC) | MAX. (FOR AC) | MAX. (FOR DC) | MIN. O <sub>c</sub> | MAX. O <sub>c</sub> |      |                    |
| CONVALVE |          | G                        | mm           | L /m                         | m <sup>3</sup> /h | Bar                             | Bar           | Bar           | Bar           | O <sub>c</sub>      | O <sub>c</sub>      |      | kg                 |
| CBSVG    | N.C      | 3/4"                     | 5            | 9.5                          | 0.57              | 0                               | 0             | 7             | 7             | -10                 | 80                  | NBR  | 0.7                |
| CBSVG    | N.C      | 1"                       | 5            | 9.5                          | 0.57              | 0                               | 0             | 7             | 7             | -10                 | 80                  | NBR  | 0.65               |
| CBSVG A  | N.O      | 3/4"                     | 2.5          | 3.3                          | 0.19              | 0                               | 0             | 10            | 10            | -10                 | 80                  | NBR  | 0.73               |
| CBSVG A  | N.O      | 1"                       | 2.5          | 3.3                          | 0.19              | 0                               | 0             | 10            | 10            | -10                 | 80                  | NBR  | 0.68               |

## OPTIONS

- Custom options can be performed for customer's special requests
- On request; NPT (ANSI 1.20.3), R (BSPT / ISO 7-1), W (BSW / Whitworth), M (Metric) etc...
- On request; diaphragm or sealing or o-rings can be FPM (VITON) (-10°C to 160°C), EPDM (-10°C to 140°C)
- On request; various body surface coating, nickel plated body, different body materials, internal parts stainless steel (for CBSVG 101), manual override, the seat can be stainless steel, filter, other pipe connections, 2 mounting sub-base holes at the bottom of the body
- On request; other special supply voltages, frequencies (60 Hz), other power, coil insulation class: F (155°C), coil duty latching model
- On request; with electronic timer, Explosion-Proof coil for use in zones 1/21-2/22 (Eex em II T4/T5), coil encapsulation material can be fiber glass reinforced (V0 or V1)
- On request; connector with LED or without connector, connector with visual indication and peak voltage suppression, connector with a cable length of 2m, Spade plug (Cable Ø 8-10 mm), connector non-flammable
- On request other versions

## ELECTRICAL CHARACTERISTIC

- Protection Degree: IP 65 (EN 60529) ( with connector )
- Plug Connection: DIN 46340-3 poles connectors (DIN 43650)
- Connector Specification: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety: IEC 335, EN 60335-1, EN 60204-1
- Coil Insulation Class: H (1800C)
- Coil Impregnation: Polyester Fiber-Resin Glass
- Coil Encapsulation Material: Fiber Glass Reinforced (V2)
- Supply Voltages: For AC(~) 12V, 24V, 48V, 110V, 230V
- For DC (=) 12V , 24V , 48V , 110 V, 230 V
- Voltage Tolerances: For AC (~) or DC (=) %-10 ; %+10
- Frequency: 50 Hz
- Coil Duty Cycle: %100 ED, Continuously Rated
- Design according to DIN VDE 0580

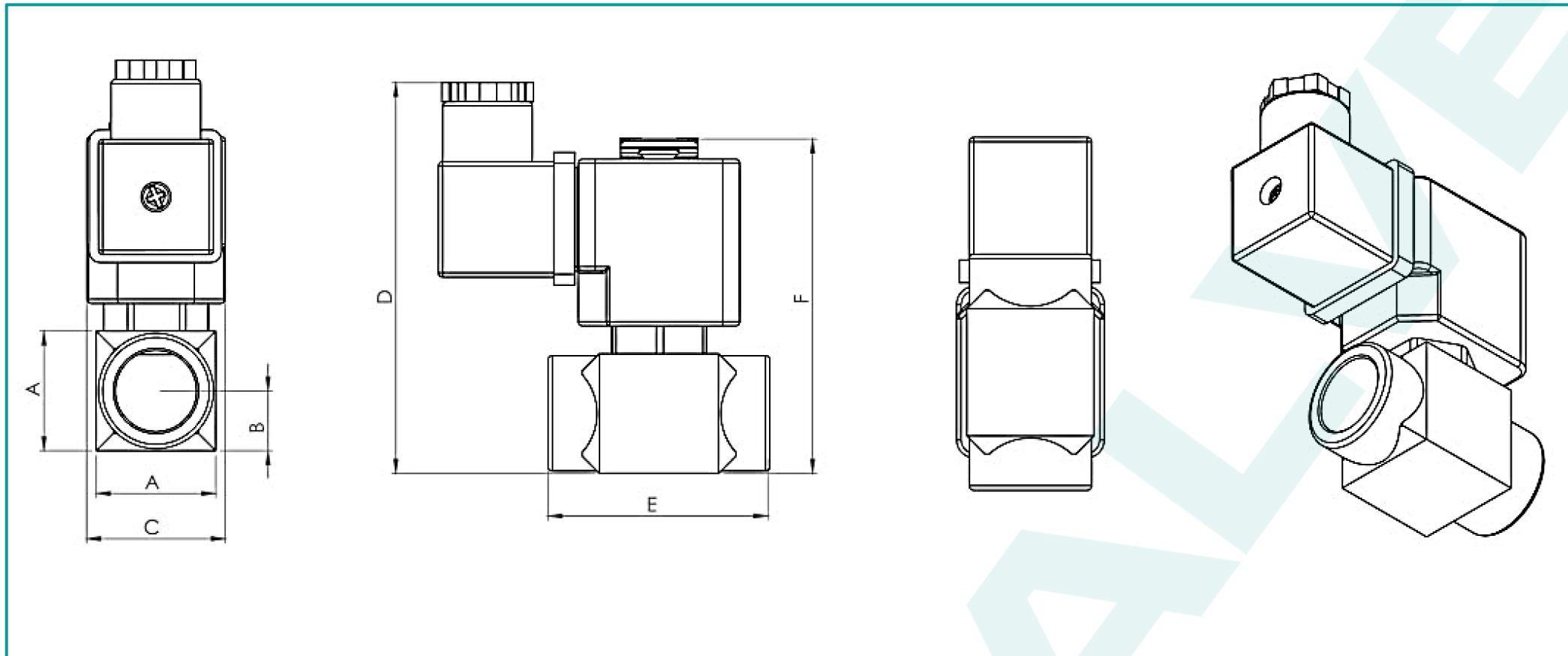
## APPLICATION

- Cooling Applications
- Gas Boilers
- Water Treatment Systems
- Garden Irrigation Systems
- Central Heating Systems
- Air Working Textile Machines

## MATERIAL

|                             |   |
|-----------------------------|---|
| <b>BODY</b>                 | Brass   |
| <b>PLUNGER SEAL</b>         | NBR   |
| <b>ENCLOSING TUBE</b>       | Stainless Steel (AISI 430FR and AISI 304) for CBSVG 100 Series , Stainless Steel (AISI 430FR and AISI 304) and Brass for CBSVG 101 Series |
| <b>PLUNGER</b>              | Stainless Steel (AISI 430FR)  |
| <b>SPRINGS</b>              | Stainless Steel (AISI 302)  |
| <b>SHADING RING</b>         | Copper  |
| <b>RETAINER RING</b>        | Carbon steel +epoxy/ SS304  |
| <b>SEAT</b>                 | Brass   |
| <b>O-RINGS</b>              | NBR   |
| <b>INTERNAL METAL PARTS</b> | Stainless Steel and Brass   |

**DIMENSIONS MM**



| SIZE | A  | B  | C    | D     | E  | F  |
|------|----|----|------|-------|----|----|
| 3/4" | 32 | 16 | 32.5 | 95.5  | 52 | 82 |
| 1"   | 40 | 20 | 32.5 | 103.5 | 60 | 90 |

**POWER CONSUMPTION**

**ALTERNATING CURRENT (AC)**

**DIRECT CURRENT (DC)**

| MODEL NO       | VOLTAGE | INRUSH (VA) | HOLDING (VA) | MODEL NO       | VOLTAGE | COLD (W) | HOT (W) |
|----------------|---------|-------------|--------------|----------------|---------|----------|---------|
| CVCO 10.AC.012 | 12V     | 30          | 18           | CVCO 10.DC.012 | 12V     | 16       | 12      |
| CVCO 10.AC.024 | 24V     | 30          | 18           | CVCO 10.DC.024 | 24V     | 16       | 12      |
| CVCO 10.AC.048 | 48V     | 30          | 18           | CVCO 10.DC.048 | 48V     | 16       | 12      |
| CVCO 10.AC.110 | 110V    | 30          | 18           | CVCO 10.DC.110 | 110V    | 16       | 12      |
| CVCO 10.AC.230 | 230V    | 30          | 18           | CVCO 10.DC.230 | 230V    | 16       | 12      |



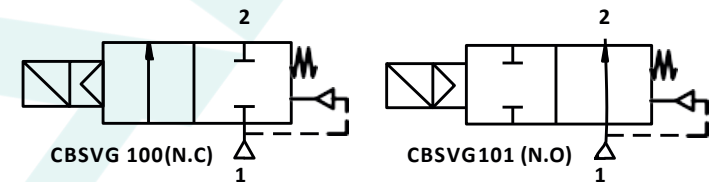


## PILOT OPERATED SOLENOID VALVE VALVE

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### DESCRIPTION

- Fluids: Valves are suitable for water, low viscosity oils, etc... non-aggressive liquids and Air, Inert Gas, etc... gaseous but are not suitable for hazardous fluids
- Switching Function: Normally Closed (N.C, Closed when de-energized) (CBSVG 100 Series) and Normally Open (N.O, Open when de-energized) (CBSVG 101 Series)
- Principle of Operation: Pilot Operated
- Way Number: 2/2 (Ports / Positions)
- Connection and Port Sizes: G1/8" up to G2"
- Connection Type: Thread (Female), G (BSPP / ISO 228-1)
- Pressure Range: -0,35 -16 Bar (1/8" up to 1" CBSVG 100 Series) , 0,5 -12 Bar (11/4" up to 2" CBSVG 100 Series) , 0,35 -12 Bar (1/8" up to 1" CBSVG 101 Series) , 0,5 -10 Bar (11/4" up to 2" CBSVG 101 Series)
- Fluid Temperature: -10°C to max. 80°C , Ambient Temperature: -20°C to max. 70°C
- Opening Time: 200ms up to 1500ms, Closing Time: 500ms up to 2000ms
- Max Viscosity: 38 cSt or mm2/s



### FEATURES

- Maximum Allowable Pressure or Design Pressure: 24 bar (CBSVG 100 Series), 18 Bar (CBSVG 101 Series)
- Minimum operating differential pressure: 0,35 Bar (For 1/8" up to 1") and 0,5 Bar (For 11/4" up to 2"), (internal exhaust system (for CBSVG 101 Series)
- Valve has sealing o-rings
- Suitable AC and DC voltage, high voltage tolerance
- Coil interchangeable without dismantling the valve (don't matter AC or DC)
- High flow rate, high reliability, high mechanical strength
- Various flow rate options, a wide range of orifice options
- Mounting position, optional any position but preferably solenoid coil vertical on top
- The fluid passing through the valve must be filtered
- Flow rate (Q) can be usually calculated as a function of pressure, density and flow coefficient
- According to 97/23/EC Pressure Equipment Directive (PED), 2006/95/EEC Low Voltage Directive (LVD) and 2004/108/EC Electromagnetic Compatibility Directive (EMC)

| MODEL NO | POSITION | CONNECTION AND PORT SIZE | ORIFICE SIZE | FLOW FACTOR / COEFFICIENT KV |                   | OPERATING PRESSURE DIFFERENTIAL |               |               |               | FLUID TEMPERATURE |                | SEAL | APPROXIMATE WEIGHT |
|----------|----------|--------------------------|--------------|------------------------------|-------------------|---------------------------------|---------------|---------------|---------------|-------------------|----------------|------|--------------------|
|          |          |                          |              |                              |                   | MIN. (FOR AC)                   | MIN. (FOR DC) | MAX. (FOR AC) | MAX. (FOR DC) | MIN.              | MAX.           |      |                    |
| CONVALVE |          | G                        | mm           | L /m                         | m <sup>3</sup> /h | Bar                             | Bar           | Bar           | Bar           | O <sub>c</sub>    | O <sub>c</sub> |      | kg                 |
| CBSVG    | N.C      | 3/8"                     | 12           | 40                           | 2.40              | 0.35                            | 0.35          | 16            | 16            | -10               | 80             | NBR  | 0.62               |
| CBSVG    | N.C      | 1/2"                     | 15           | 70                           | 4.20              | 0.35                            | 0.35          | 16            | 16            | -10               | 80             | NBR  | 0.58               |
| CBSVG    | N.C      | 3/4"                     | 20           | 130                          | 7.80              | 0.35                            | 0.35          | 16            | 16            | -10               | 80             | NBR  | 0.74               |
| CBSVG    | N.C      | 1"                       | 25           | 180                          | 10.80             | 0.35                            | 0.35          | 16            | 16            | -10               | 80             | NBR  | 1                  |
| CBSVG    | N.C      | 11/4"                    | 32           | 380                          | 22.80             | 0.5                             | 0.5           | 12            | 12            | -10               | 80             | NBR  | 2.95               |
| CBSVG    | N.C      | 11/2"                    | 40           | 480                          | 28.80             | 0.5                             | 0.5           | 12            | 12            | -10               | 80             | NBR  | 2.85               |
| CBSVG    | N.C      | 2"                       | 50           | 600                          | 36.00             | 0.5                             | 0.5           | 12            | 12            | -10               | 80             | NBR  | 3.3                |
| CBSVG A  | N.O      | 3/8"                     | 12           | 40                           | 2.40              | 0.35                            | 0.35          | 12            | 12            | -10               | 80             | NBR  | 0.65               |
| CBSVG A  | N.O      | 1/2"                     | 15           | 70                           | 4.20              | 0.35                            | 0.35          | 12            | 12            | -10               | 80             | NBR  | 0.61               |
| CBSVG A  | N.O      | 3/4"                     | 20           | 130                          | 7.80              | 0.35                            | 0.35          | 12            | 12            | -10               | 80             | NBR  | 0.75               |
| CBSVG A  | N.O      | 1"                       | 25           | 180                          | 10.80             | 0.35                            | 0.35          | 12            | 12            | -10               | 80             | NBR  | 1.03               |
| CBSVG A  | N.O      | 11/4"                    | 32           | 380                          | 22.80             | 0.5                             | 0.5           | 10            | 10            | -10               | 80             | NBR  | 2.98               |
| CBSVG A  | N.O      | 11/2"                    | 40           | 480                          | 28.80             | 0.5                             | 0.5           | 10            | 10            | -10               | 80             | NBR  | 2.88               |
| CBSVG A  | N.O      | 2"                       | 50           | 600                          | 36.00             | 0.5                             | 0.5           | 10            | 10            | -10               | 80             | NBR  | 3.33               |



## OPTIONS

- Custom options can be performed for customer's special requests
- On request; NPT (ANSI 1.20.3), R (BSPT / ISO 7-1), W (BSW / Whitworth), M (Metric) etc...
- On request; diaphragm or sealing or o-rings can be FPM (VITON) (-10°C to 160°C), EPDM (-10°C to 140°C)
- On request; various body surface coating, nickel plated body, different body materials, internal parts stainless steel (for CBSVG101), manual override, the seat can be stainless steel, filter, other pipe connections, flanged connection
- On request; other special supply voltages, frequencies (60 Hz), other power, coil insulation class: F (155°C), coil duty latching model
- On request; with electronic timer, Explosion-Proof coil for use in zones 1/21-2/22 (Eex em II T4/T5), coil encapsulation material can be fiberglass reinforced (V0 or V1)
- On request; connector with LED or without connector, connector with visual indication and peak voltage suppression, connector with a cable length of 2m, Spade plug (Cable Ø 8-10 mm), connector non-flammable
- On request other versions

## ELECTRICAL CHARACTERISTIC

- Protection Degree: IP 65 (EN 60529) ( with connector )
- Plug Connection: DIN 46340-3 poles connectors (DIN 43650)
- Connector Specification: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety: IEC 335, EN 60335-1, EN 60204-1
- Coil Insulation Class: H (180°C)
- Coil Impregnation: Polyester Fiber-Resin Glass
- Coil Encapsulation Material: Fiber Glass Reinforced (V2)
- Supply Voltages: For AC(~) 12V, 24V, 48V, 110V, 230V
- For DC (=) 12V , 24V , 48V, 110V, 230 V
- Voltage Tolerances: For AC (~) or DC (=) %-10 ; %+10
- Frequency: 50 Hz
- Coil Duty Cycle: %100 ED, Continuously Rated
- Design according to DIN VDE 0580

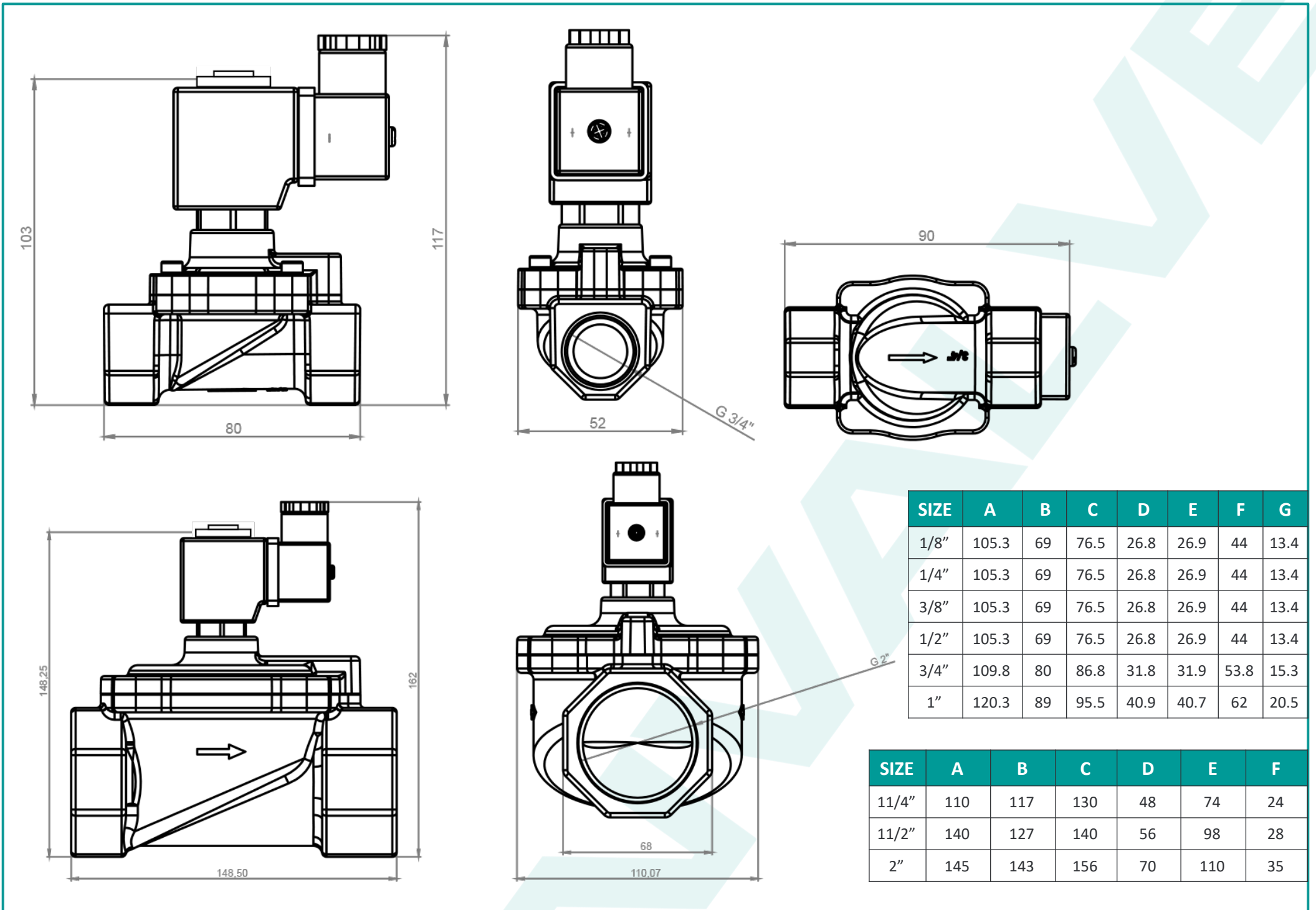
## APPLICATION

- Cooling Applications
- Gas Boilers
- Water Treatment Systems
- Garden Irrigation Systems
- Central Heating Systems
- Air Working Textile Machines

## MATERIAL

|                             |   |
|-----------------------------|---|
| <b>BODY</b>                 | Brass   |
| <b>PLUNGER SEAL</b>         | NBR   |
| <b>ENCLOSING TUBE</b>       | Stainless Steel (AISI 430FR and AISI 304) for CBSVG 100 Series , Stainless Steel (AISI 430FR and AISI 304) and Brass for CBSVG 101 Series |
| <b>PLUNGER</b>              | Stainless Steel (AISI 430FR)  |
| <b>SPRINGS</b>              | Stainless Steel (AISI 302)  |
| <b>SHADING RING</b>         | Copper  |
| <b>RETAINER RING</b>        | Carbon steel +epoxy/ SS304  |
| <b>SEAT</b>                 | Brass   |
| <b>O-RINGS</b>              | NBR   |
| <b>INTERNAL METAL PARTS</b> | Stainless Steel and Brass   |
| <b>COVER</b>                | Brass   |
| <b>DIAPHRAGM/SEAT SEAL</b>  | NBR   |
| <b>COVER SCREWS</b>         | Stainless Steel   |

**DIMENSIONS MM**



**POWER CONSUMPTION**

| ALTERNATING CURRENT (AC) |         |             |              | DIRECT CURRENT (DC) |         |          |         |
|--------------------------|---------|-------------|--------------|---------------------|---------|----------|---------|
| MODEL NO                 | VOLTAGE | INRUSH (VA) | HOLDING (VA) | MODEL NO            | VOLTAGE | COLD (W) | HOT (W) |
| CVCO 10.AC.012           | 12V     | 30          | 18           | CVCO 10.DC.012      | 12V     | 16       | 12      |
| CVCO 10.AC.024           | 24V     | 30          | 18           | CVCO 10.DC.024      | 24V     | 16       | 12      |
| CVCO 10.AC.048           | 48V     | 30          | 18           | CVCO 10.DC.048      | 48V     | 16       | 12      |
| CVCO 10.AC.110           | 110V    | 30          | 18           | CVCO 10.DC.110      | 110V    | 16       | 12      |
| CVCO 10.AC.230           | 230V    | 30          | 18           | CVCO 10.DC.230      | 230V    | 16       | 12      |