




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 mm²/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. OC	MAX. OC		
CONVALVE		G	mm	L/m	m ³ /h	Bar	Bar	Bar	Bar	OC	OC		kg
CBSVD	N.C	3/8"	5	9.5	0.57	0	0	7	7	-10	80	NBR	0.47
CBSVD	N.C	1/2"	5	9.5	0.57	0	0	7	7	-10	80	NBR	0.44
CBSVD A	N.O	3/8"	2.5	3.3	0.19	0	0	10	10	-10	80	NBR	0.5
CBSVD 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; 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
- 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

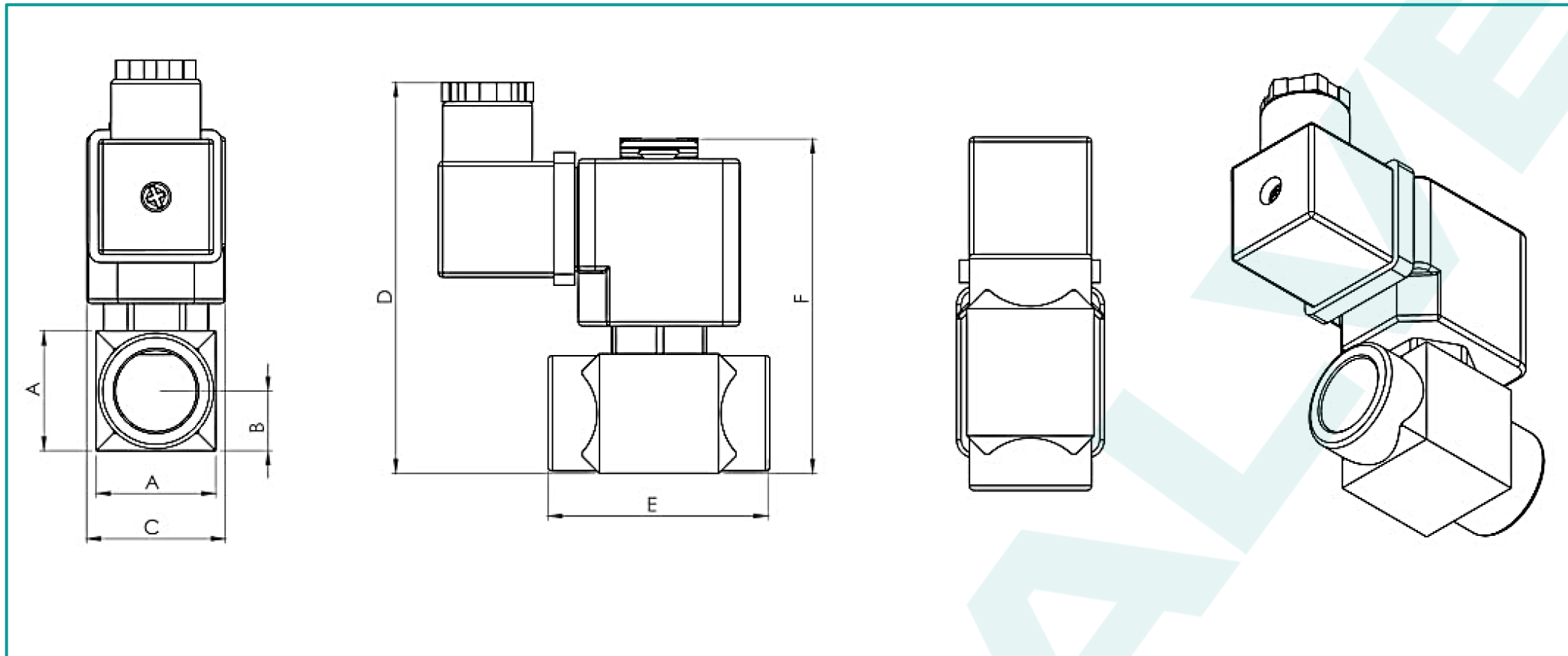
APPLICATION

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

MATERIAL

BODY	Brass
PLUNGER SEAL	NBR
ENCLOSING TUBE	Stainless Steel (AISI 430FR and AISI 304) for CBSVG 100 Series , Stainless Steel (AISI 430FR and AISI 304) and Brass for CBSVG 101 Series
PLUNGER	Stainless Steel (AISI 430FR)
SPRINGS	Stainless Steel (AISI 302)
SHADING RING	Copper
RETAINER RING	Carbon steel +epoxy/ SS304
SEAT	Brass
O-RINGS	NBR
INTERNAL METAL PARTS	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 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 mm²/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. OC	MAX. OC		
CONVALVE		G	mm	L/m	m ³ /h	Bar	Bar	Bar	Bar	OC	OC		kg
CBSVD	N.C	3/4"	5	9.5	0.57	0	0	7	7	-10	80	NBR	0.7
CBSVD	N.C	1"	5	9.5	0.57	0	0	7	7	-10	80	NBR	0.65
CBSVD A	N.O	3/4"	2.5	3.3	0.19	0	0	10	10	-10	80	NBR	0.73
CBSVD 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; 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
- 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

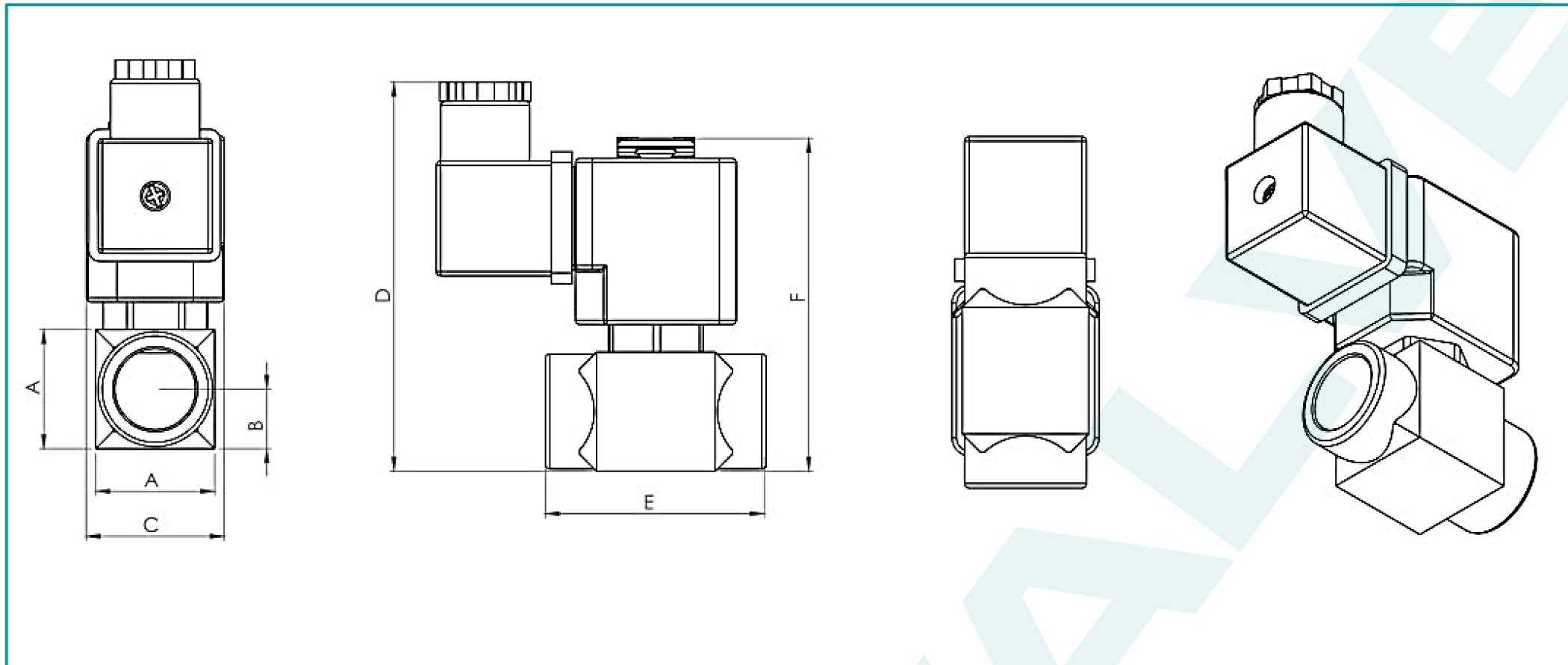
APPLICATION

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

MATERIAL

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

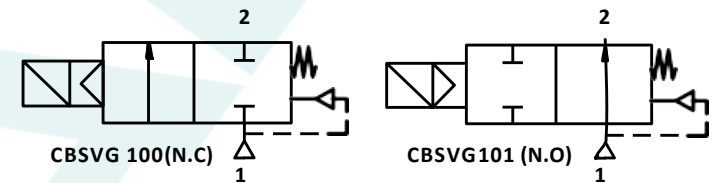


PILOT OPERATED SOLENOID VALVE

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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 ³ /h	Bar	Bar	Bar	Bar	O _c	O _c		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	1 1/4"	32	380	22.80	0.5	0.5	12	12	-10	80	NBR	2.95
CBSVG	N.C	1 1/2"	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	1 1/4"	32	380	22.80	0.5	0.5	10	10	-10	80	NBR	2.98
CBSVG A	N.O	1 1/2"	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; 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
- 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

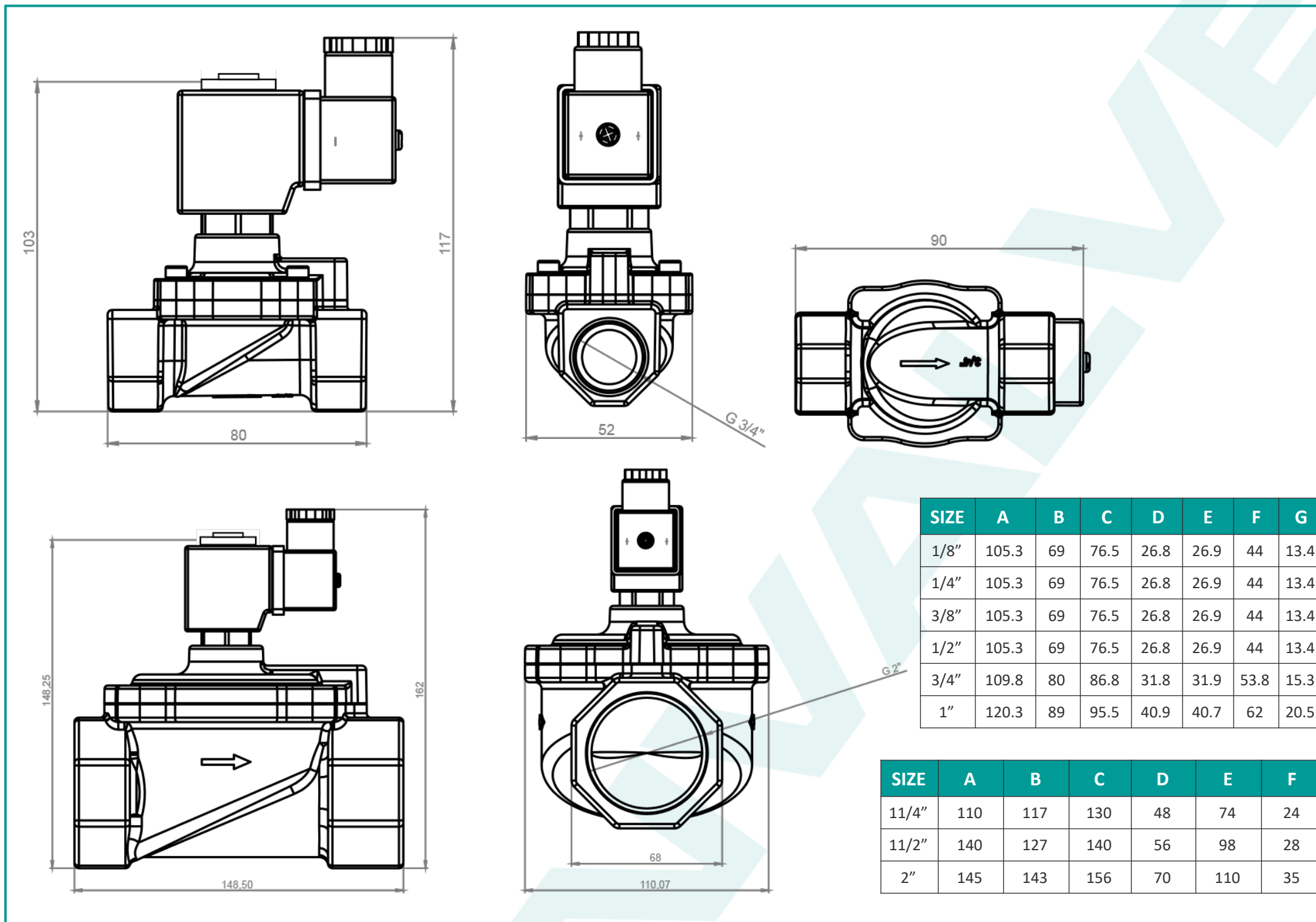
APPLICATION

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

MATERIAL

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

DIMENSIONS MM



SIZE	A	B	C	D	E	F	G
1/8"	105.3	69	76.5	26.8	26.9	44	13.4
1/4"	105.3	69	76.5	26.8	26.9	44	13.4
3/8"	105.3	69	76.5	26.8	26.9	44	13.4
1/2"	105.3	69	76.5	26.8	26.9	44	13.4
3/4"	109.8	80	86.8	31.8	31.9	53.8	15.3
1"	120.3	89	95.5	40.9	40.7	62	20.5

SIZE	A	B	C	D	E	F
1 1/4"	110	117	130	48	74	24
1 1/2"	140	127	140	56	98	28
2"	145	143	156	70	110	35

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