



## GEM-SOL Chem-Sol 1/4" 2/2 Way NC, NO

### General Description

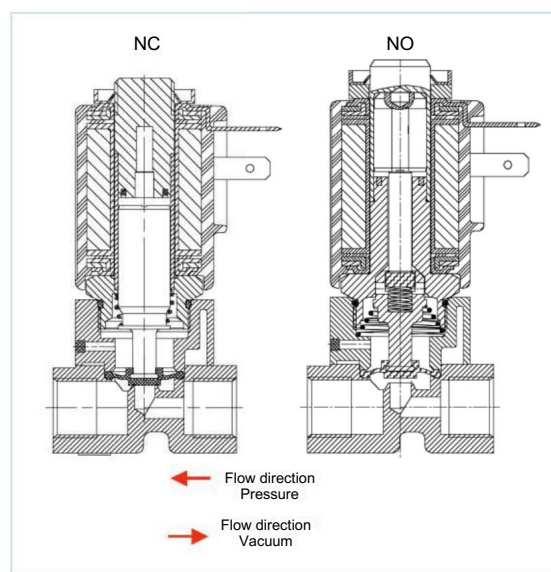
These GEM-SOL 2/2 way NC, NO Chem-Sol solenoid valves are recommended for use in applications where corrosive fluid must be controlled, such as chemical process, water treatment, analysis device etc.

They can be used for industrial and irrigation control and automation systems.



### Notes

- Contact our technical department to get details on valve and fluid compatibility.
- To order valves manufactured to your specific requirements, please contact our technical department.
- ADC valves are suitable to work only with AC 8W or DC 10W coils.



### How to Order

Example : GEM-C-12012V1-321

Is a GEM-SOL Chem-Sol, 1/4"BSP, 2W NC, Pressure, Viton, plastic manual override, 24V AC 8W 60Hz with connector.

*Note: When ordering without coil, please define what current and pressure rating is needed (DC, AC or ADC). When this information is not defined, an ADC valve will be supplied.*

GEM-C-Body	Port	Function	Pressure	Seals	Manual Override	Coil	Power	Connector	
	PPA 1 1/4" BSP 20 2W NC	1 Vacuum 1		Viton V	None	0 W/out coil	0	No coil	0 without
		1/4"NPT 21 2W NO 2 Pressure 2		EPDM E	Plastic	1 6	1	AC8W 50Hz	1 with
				Silicone S		12	2	AC8W 60Hz	2 with LED
						24	3	DC10W	3 with bi color
						48	4	AC5.5W50HZ	4 LED
						110	5	AC5.5W60HZ	5 flying leads
						120	6	DC 5.5W	6 coil
						230	7		7 with 1/2" Hub
						240	8		8 surge protection
						other	9		9 with LED
									9 other

(1) NO - without manual override

(1) NO - without manual override



## Technical Specifications

Functions:	2/2 Way NC or NO
Ports size:	1/4" BSP & NPT
Orifice:	4.5mm
Kv:	5 L/min
Pressure range:	See table
Temperature range:	Fluid: -15° C to max 90° C Ambient: -10° C to 50° C
Manual Override:	NC: Plastic. NO: Without manual override
Materials in contact with fluid:	Main valve : Reinforced PPA Diaphragm: Viton, EPDM, Silicone
Weight (with coil):	200 gr
Coil voltage:	All Baccara coils voltages $\pm 10\%$ AC 8W, 5.5W DC 10W, 5.5W  Protection class IP65 with plug attached

Pressure Table - NC

Coil	Flow direction not restricted	Flow direction restricted
ADC	0-2 bar	0-0.5bar
AC 8W	0-2.5 bar	0-0.7 bar
AC 5.5W	0-2 bar	0-0.5 bar
DC 5.5W	0-1.5 bar	0-0.4 bar

Vacuum Table - NC

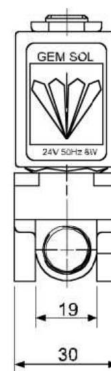
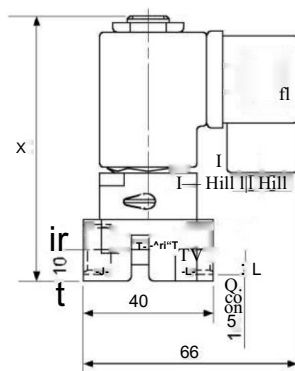
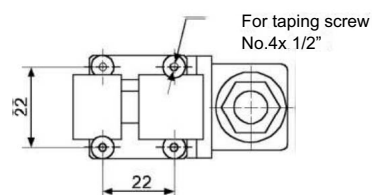
Coil	Flow direction not restricted	minimum Ap
ADC	-1 to 2 bar	1 bar
AC 5.5W	-1 to 2 bar	
DC 5.5W	-1 to 1.5 bar	

Pressure Table - NO

Coil and power rating	Flow direction not restricted	Flow direction restricted (1)
ADC AC 8w or DC 10W	0 - 1 bar	0 - 0.5 bar
5.5W AC/DC	0 - 1 bar	0 - 0.5 bar

(1) Higher input pressure of up to 1atm can be achieved with minimal pressure drop on the valve of 0.3 atm.

## Dimensions



### Notes

Type	Valve Description	H
NC	GEM-C-12 □1....	81
NO	GEM-C-12 □2....	84.5

## GEM-SOL Chem-Sol 1/2" 2/2 Way NC

### General Description

These GEM-SOL 2/2 way NC Chem-Sol solenoid valves are recommended for use in applications where corrosive fluid must be controlled, such as chemical process, water treatment, analysis device etc.

They can be used for industrial and irrigation control and automation systems.



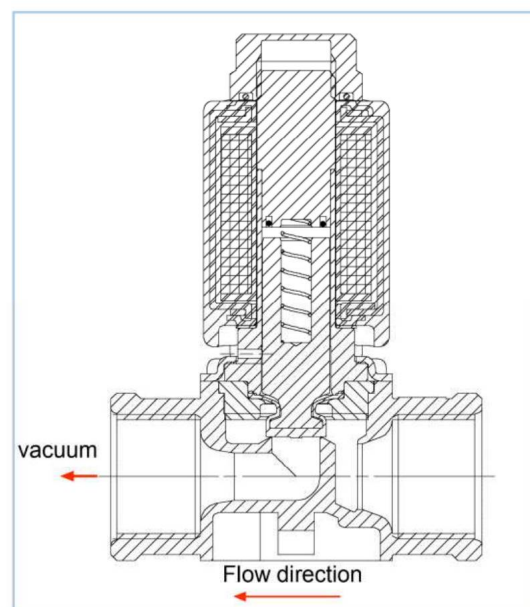
### Notes

- Contact our technical department to get details on valve and fluid compatibility.
- To order valves manufactured to your specific requirements, please contact our technical department.
- Specify if application is pressure or vacuum.
- All valves are assembled with seal coil nut, lower coil gasket and impregnated coil.

### How to Order

Example : GEM-C-4011V-321

Is a GEM-SOL Chem-Sol, 1/2" BSP, 2WNC for vacuum, Viton seals, 24V AC 8W 60 Hz with connector.



*Note: When ordering without coil, please define what current and pressure rating is needed (DC or AC).*

GEM-C - Port		Function	Pressure	Seals	Voltage	Power	Connector
1/2" BSP	40	2WNC 1	Vacuum 1	Viton V	W/out coil 0	No coil	0 without 0
1/2" NPT	41		Pressure 2	EPDM E	6 1	AC8W 50Hz	1 with 1
					12 2	AC8W 60Hz	2 with LED 2
					24 3	DC10W	3 with bi color 3
					48 4	AC5.5W50HZ	4 LED 4
					110 5	AC5.5W60HZ	5 flying leads 4
					120 6		6 coil 5
					230 7		7 with 1/2" Hub 5
					240 8		8 surge 6
					other 9		9 protection 6
							10 with LED 6
							11 other 9



## Technical Specifications

Function:	2/2 Way NC
Ports size:	1/2" BSP & NPT
Orifice:	8mm
Kv:	18 L/min
Pressure:	See table
Temperature range:	Fluid: 5°C to max 50° C Ambient: -10°C to 50°C
Materials:	Main valve: PVC Diaphragm: Viton, EPDM
Coil Voltage:	All Baccara coils voltages from -5% to +10% AC 8W, 5.5W DC 10W  Protection class IP65 with plug attached

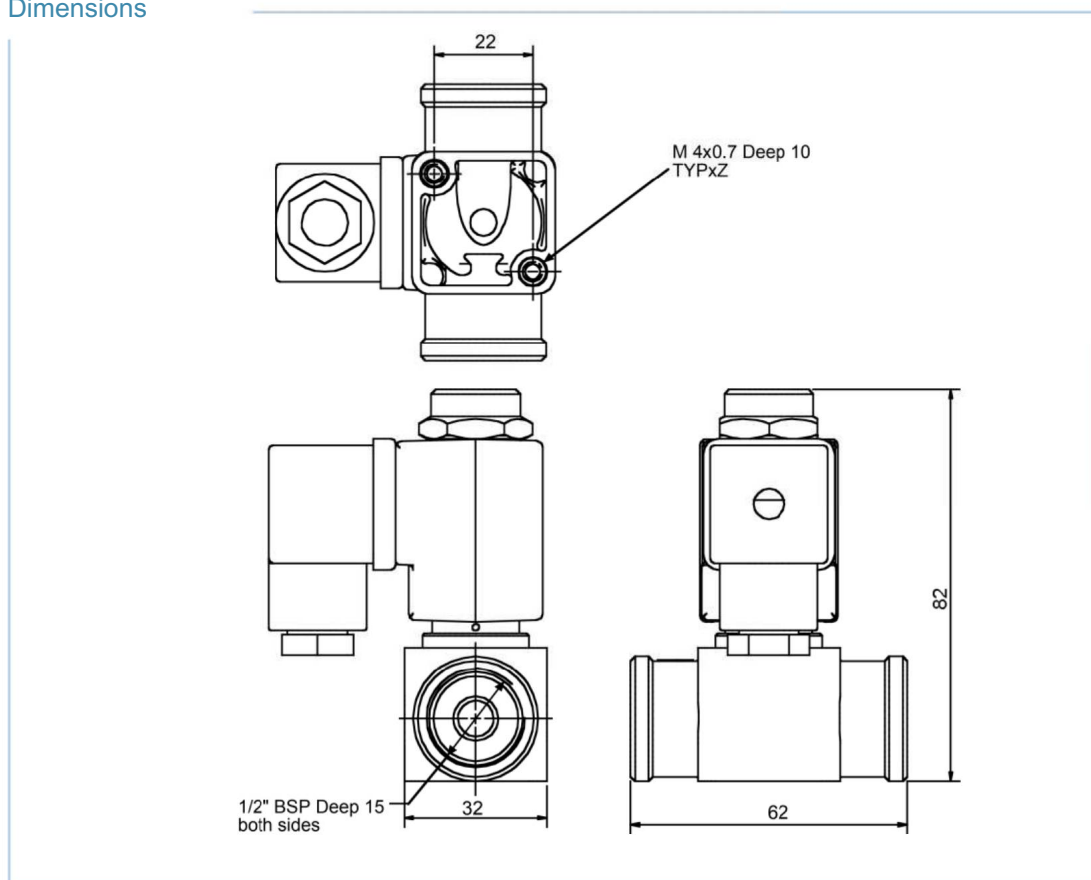
Pressure Table - NC

Coil	Flow direction not restricted	Flow direction restricted
AC 8W	0 to 0.7 bar	Min.dp 0.3 bar

Vacuum Type Table - NC

Coil	Flow direction not restricted	Flow direction restricted
AC 8W	-1 to 0.5	-1 to 0.5
AC 5.5W	-0.5 to 0.5	-0.8 to 0.5
DC 10W	-0.4 to 0.5	-0.6 to 0.5

## Dimensions



BACCARA Solenoids Valves On-line Orders and Support