

SOLENOID VALVES | GEM-SOL® | General Purpose

Direct Operated

GEM-SOL® | V/VL32 (GEM-V/VL)

Modular Manifold Installation

Technical Data

Function	2 Way, 3 Way NC, NO
Pressure range	• See table • Valves for pressure higher than 25 bar cannot be supplied with manual override.
Kv (l/min)	See table
Temperature range	Fluid : -10°C to 80°C (no freezing) Ambient : -10°C to 50°C
Mounting	Vertical, on sub-base, 2 screws M4. Any number of valves on the same sub-base plate. Any combination of 2 Way, 3 Way NC or NO valves may be grouped together. * Standard valve orientation : Manual override and base port on the same side
Materials in contact with media	Manual override: Plastic (Reinforced Nylon), Brass screw or finger knob. NOa* - manual override is not available. *pressure is supplied through the base Main Valve: Brass Solenoid Operator: Stainless Steel AISI 300 & 400 series Seals: NBR, FKM, EPDM, FFKM, PTFE
Media	Air, water, oil
Coil voltage	• Voltage and power consumption - see table • All Baccara coil voltages are $\pm 10\%$ of nominal
Standard protection class	IP65 with connector * Option : IP68 (please refer to GEM-BP Coil)

- Latch valves are available upon request.
- Pressure separation plug is available.

Two types of NO valves :

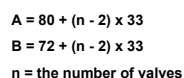
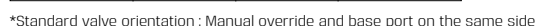
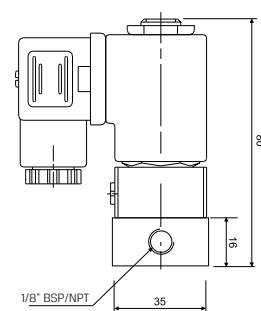
- Supply pressure is through the base like NC valves.
These valves can be combined in a standard manifold. They are not supplied with manual override.
- Supply pressure is through the tube. These valves cannot be combined in a standard manifold. They are supplied with manual override.

When using a manifold with more than 8 stations, it is advisable to use two air supplies, one at each end.



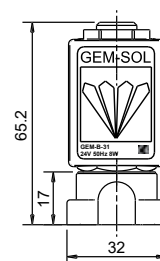
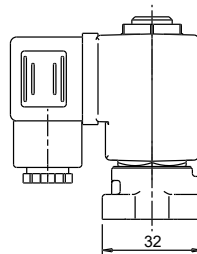
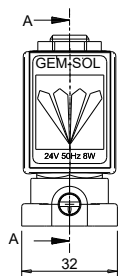
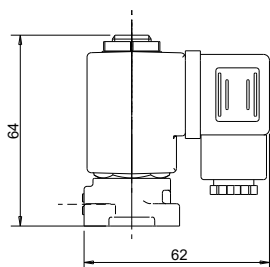
Brass | 5 valves

Dimensions


$$A = 80 + 4 \times 33 = 212$$
$$B = 72 + 4 \times 33 = 204$$


*Pressure separation plug can be ordered on request.

TYPE VL32

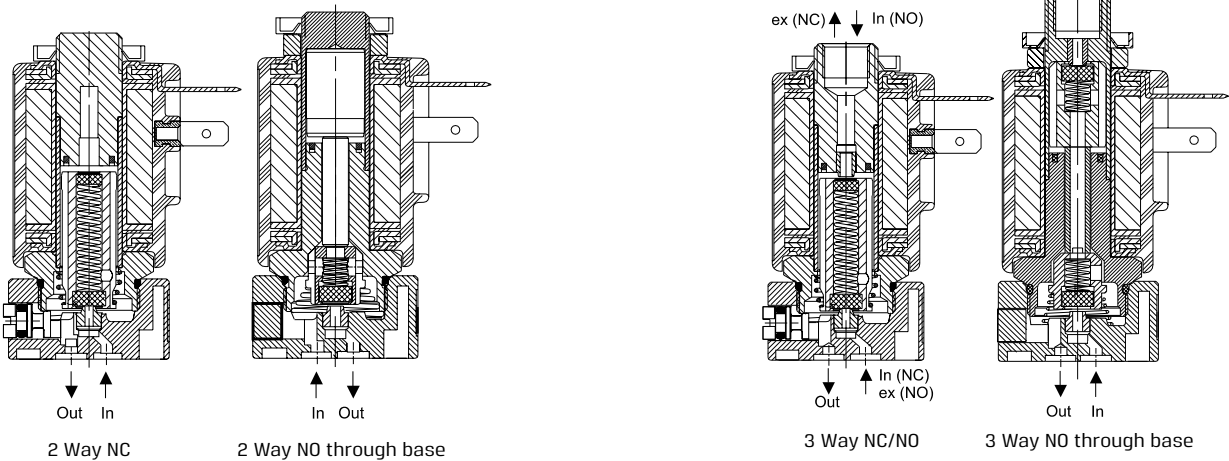


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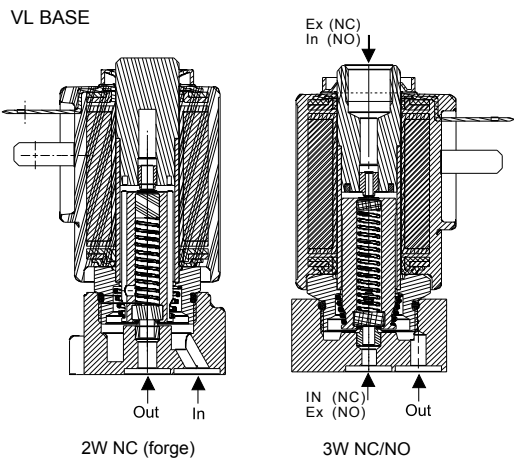
Direct Operated

GEM-SOL® | V/VL32 (GEM-V/VL) | Modular Manifold Installation

Type V32 (GEM-V) 2 Way, 3 Way NC, NO



Type VL32 (GEM-VL) 2 Way, 3 Way NC, NO



Size : Any number of stations, built from three basic components: left end section, right end section and middle section.
 Assembly : Push in and turn 90° clockwise
 Port size : 1/8" BSP or NPT
 Material : Brass

How to Order manifold components

GEM-V	-	PORT	COMPONENT	BODY
		1/8" BSP 10	Left 1	Brass 2
		1/8" NPT 11	Right 2	
			Middle 3	

Example : GEM-V-1022

V32 (GEM-V) type manifold 1/8" BSP, right component, Brass body

Max. Pressure (bar) 2 Way, 3 Way NC

Coil Current/Power	Orifice (mm)						
	0.8	1.2	1.6	2.0	2.4	3.0	4.0 ⁽¹⁾
• ADC	23	20	15	10	8	5.5	2.5
AC8W, DC10W	35	30	17	14	10	6	3
AC5.5W	23	20	15	10	8	5.5	2.5
AC2.5W, DC5.5W, DC3.5W	20	16	10	9	5	4	1.6
Flow factor Kv(l/min)	0.6	1.1	1.7	2.5	3.5	4.5	5

Max. Pressure (bar) 2 Way, 3 Way NO

Coil Current/Power	Orifice (mm)						
	0.8	1.2	1.6	2.0	2.4	3.0	4.0 ⁽¹⁾
• ADC	25	20	15	11	8	6	4.5
*AC8W, DC10W	30	22	17	12	10	7	4.5
*AC5.5W, DC5.5W	25	20	15	11	8	6	
*AC2.5W, DC3.5W	20	18	12	8	6	4	
Flow factor Kv(l/min)	0.6	1	1.4	2.2	3.0	3.5	5

(1) 4.0 - Bottom orifice only. Available in 2 Way only
 * These are not applicable for NO through base valves
 • ADC valves are only suitable for use with AC8W or DC10W coils.

Voltage & Power Consumption

		AC (W)						DC (W)		
		50 Hz			60 Hz					
V		8	5.5	2.5	8	5.5	2.5	10	5.5	3.5
6								•	•	•
12	•				•			•	•	•
24	•	•	•	•	•	•	•	•	•	•
48	•				•			•		
110	•				•	•		•		
120	•				•	•				
220	•	•	•	•	•			•		
230	•	•			•	•				
240	•				•			•		

• Available options

GEM-SOL® | V/VL32 (GEM-V/VL) | Modular Manifold Installation

How to Order | V32 (GEM-V) Manifold | all valves having identical functions

GEM-V	No. of VALVES / specify quantity	No. of STATIONS / specify quantity without manifold	PORT	BODY	FUNCTION	ORIFICE	SEALS	MANUAL OVERRIDE	VOLTAGE	POWER	CONNECTOR
		0	1/8" BSP 10 1/8" NPT 11	Brass 2	2W NC 1 2W NO 2 2W NO (1) 2a 3W NC 3 3W NO 4 3W NO * (1) 4a	0.8 1 1.2 2 1.6 3 2.0 4 2.4 5 4.0 (2) 7	NBR N FKM V EPDM E FFKM K PTFE * T	None 0 Plastic * 1 Slot 2 Knob * 3 Push 4 Push lock 5	without coil 0 6 (3) 1 12 2 24 3 48 4 110 5 120 6 220 7A 230 7 240 8 Latch/ other * (4) 9	No coil 0 AC8W 50Hz 1 AC8W 60Hz 2 DC10W 3 AC5.5W 50Hz 4 AC5.5W 60Hz 5 AC2.5W 50/60Hz 6 DC5.5W 7 DC3.5W 8	with 1 with LED 2 flying leads coil * 4 with 1/2" Hub 5 surge protection with LED * 6 connector with moulded cable 7 other 9

Example : GEM-V-6/6-10232V2-331

GEM-SOL® V32 (GEM-V) direct operated 6/6 Stations, 1/8" BSP, Brass, 3WNC, 12, FKM, slot manual override, 24VDC 10W with connector

(1) Supply pressure through base

(2) 4.0 - Bottom orifice only. Available in 2 Way only

(3) DC only

(4) For specifying Latch type coil, please refer to A3P32 (GEM-A3P)valve - How to Order table

* SPECIAL OPTIONS | Extended lead times, Non-stock items, MOQ may be applicable

How to Order | V32 (GEM-V) | individual valves with independent functions

GEM-V	No. of VALVES / specify quantity specify quantity	No. of STATIONS / specify quantity specify quantity	PORT	BODY	FUNCTION	ORIFICE	SEALS	MANUAL OVERRIDE	ADDITIONAL FEATURE	VOLTAGE	POWER	CONNECTOR

As above table

V32 (GEM-V) Direct Operated sub-base :

Example : GEM-V-3/6-10242N0-331 :

3/6 Stations with 1/8" BSP Brass, 3WNO, 12, NBR, no M/O, 24VDC 10W with connector

Example : GEM-V-1/6-10212N0-331 :

1/6 Stations with 1/8" BSP Brass, 2WNC, 12, NBR, no M/O, 24VDC 10W with connector

How to Order | V32 (GEM-V) Body

GEM-V-BODY	PORT	BODY	FUNCTION	ORIFICE	SEALS	MANUAL OVERRIDE	VOLTAGE	POWER	CONNECTOR
	1/8" BSP 10 1/8" NPT 11	Brass 2	2W NC 1 2W NO 2 2W NO (1) 2a 3W NC 3 3W NO 4 3W NO * (1) 4a	0.8 1 1.2 2 1.6 3 2.0 4 2.4 5 4.0 (2) 7	NBR N FKM V EPDM E FFKM K PTFE * T	None 0 Plastic * 1 Slot 2 Knob * 3 Push 4 Push lock 5	without coil 0 6 (3) 1 12 2 24 3 48 4 110 5 120 6 220 7A 230 7 240 8 Latch/ other * (4) 9	No coil 0 AC8W 50Hz 1 AC8W 60Hz 2 DC10W 3 AC5.5W 50Hz 4 AC5.5W 60Hz 5 AC2.5W 50/60Hz 6 DC5.5W 7 DC3.5W 8	with 1 with LED 2 flying leads coil * 4 with 1/2" Hub 5 surge protection with LED * 6 connector with moulded cable 7 other 9

Example : GEM-V-BODY-10232V2-331

GEM-SOL® V32-Body (GEM-V-BODY), direct operated, 1/8" BSP, Brass, 3WNC, 12, FKM, slot manual override, 24 VDC 10W with connector

(1) Supply pressure through base

(2) 4.0 - Bottom orifice only. Available in 2 Way only

(3) DC only

(4) For specifying Latch type coil, please refer to A3P32 (GEM-A3P)valve - How to Order table

* SPECIAL OPTIONS | Extended lead times, Non-stock items, MOQ may be applicable

How to Order | VL32 (GEM-VL)

GEM-VL	PORT	BODY	FUNCTION	ORIFICE	SEALS	MANUAL OVERRIDE	VOLTAGE	POWER	CONNECTOR
	1/8" BSP 10 1/8" NPT 11	Brass 2	2W NC 1 2W NO 2 2W NO (1) 2a 3W NC 3 3W NO 4 3W NO * (1) 4a	0.8 1 1.2 2 1.6 3 2.0 4 2.4 5 4.0 (2) 7	NBR N FKM V EPDM E FFKM K PTFE * T	None 0 Plastic * 1 Slot * 2 Knob * 3 Push * 4 Push lock 5	without coil 0 6 (3) 1 12 2 24 3 48 4 110 5 120 6 220 7A 230 7 240 8 Latch/ other * (4) 9	No coil 0 AC8W 50Hz 1 AC8W 60Hz 2 DC10W 3 AC5.5W 50Hz 4 AC5.5W 60Hz 5 AC2.5W 50/60Hz 6 DC5.5W 7 DC3.5W 8	with 1 with LED 2 flying leads coil * 4 with 1/2" Hub 5 surge protection with LED * 6 connector with moulded cable 7 other 9

Example : GEM-VL-10211V0-331

GEM-SOL® VL32 (GEM-VL) direct operated, 1/8" BSP, Brass, 2WNC, 0.8, FKM, no manual override, 24 VDC 10W with connector

(1) Supply pressure through base

(2) 4.0 - Bottom orifice only. Available in 2 Way only

(3) DC only

(4) For specifying Latch type coil, please refer to A3P32 (GEM-A3P)valve - How to Order table

* SPECIAL OPTIONS | Extended lead times, Non-stock items, MOQ may be applicable

* To order manifolds manufactured according to your specific requirements, please contact our technical sales department.