Direct Operated | Manifolds



GEM-V/VL | Modular Manifold Installation





Brass | 5 valves

Mazak | 6 valves

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 (I/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 2/2, 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, Brass screw or finger knob. N0a* - manual override is not available. *pressure is supplied through the base Main Valve: Mazak, Brass Solenoid Operator: Stainless Steel AISI 300 & 400 series Seals: NBR, FKM, EPDM
Media	Air, water, oil
Coil voltage	Voltage and power consumption - see table All Baccara coil voltages are ± 10% of nominal
Standard / Certification	 UL 429 * Available on selected models only. Please contact our technical sales department for details.
Standard protection class	IP65 with connector * Option : IP68 (please refer to GEM-BP Coil)

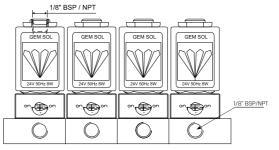
- Latch valves are available upon request.
- Pressure separation plug is available.

Two types of NO valves:

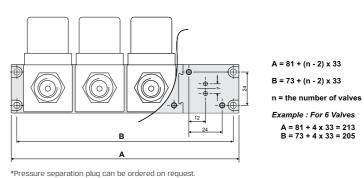
- \bullet Supply pressure is through the base like NC valves. These valves can be combined in a standard manifold. They are not supplied with manual override.
- Supply pressure is through the tube. These valves cannot be combined in a standard manifold. They are supplied with manual override.

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

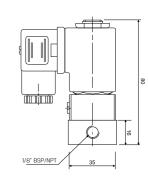
Dimensions



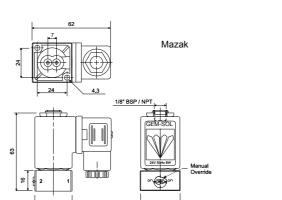
*Standard valve orientation: Manual override and base port on the same side

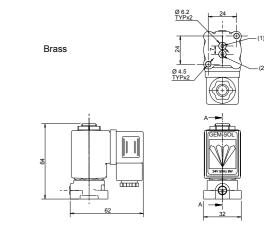


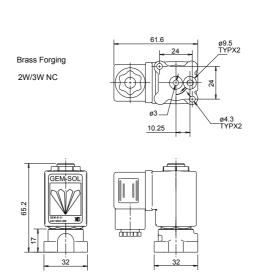
TYPE V

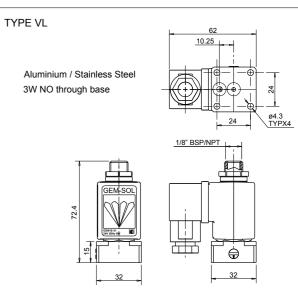


Direct Operated | Manifolds | GEM-SOL





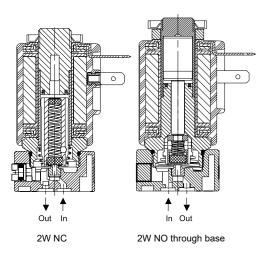




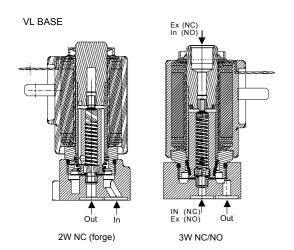
SOLENOID VALVES | General Purpose

Direct Operated | Manifolds | GEM-SOL

Type V 2 Way, 3 Way NC, NO



Type VL 2 Way, 3 Way NC, NO



Any number of stations, built from three basic components: left end section, right end section and middle section.

Push in and turn 90° clockwise

Material Mazak, Brass

How to Order manifold components

GEM-V	-	POF	RT	COMPON	ENT	BODY	
		BSP	10	Left	1	Mazak	1
		NPT	11	Right	2	Brass	2
				Middle	3		

GEM-SOL V type manifold 1/8" BSP, right component, Mazak body.



ex (NC) 🛊 🗼 In (NO) 3W NC/NO 3W NO through base

Max. Pressure (bar) 2W, 3W NC table

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

Max. Pressure (bar) 2W, 3W NO table

Coil			Orifice	(mm)		
Current/Power	8.0	1.2	1.6	2.0	2.4	3.0
ADC •	25	20	15	11	8	6
*AC8W, DC10W	30	22	17	12	10	7
*AC5.5W, DC5.5W	25	20	15	11	8	6
*AC2.5W, DC3.5W	20	18	12	8	6	4
Flow factor Kv(I/min)	0.6	1	1.4	2.2	3.0	3.5

* These are not applicable for NO through base valves • ADC valves are only suitable for use with AC8W or DC10W coils.

Voltage & Power Consumption

				DC (W)									
		50 Hz			60 Hz		DG (VV)						
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	•			•			•						

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

Available options

Direct Operated | Manifolds | GEM-SOL

How to Order | GEM-V manifold | all valves having identical functions

GEM-V -	No. of Valves	No. of STATIONS	- PORT	PORT			FUNCTION		ORIFICE		SEALS		MANUAL OVERRIDE	-	VOLTAGE		POWER		CONNECTOR	
	specify specify 1/8"BSP 10 Mazak 1							1	0.8	1	NBR	N	None	0	W/out coil	0	No coil	0	without	0
	, ,	2	2W NO	2	1.2	2	FKM	V	Plastic	1	6	1	AC8W 50Hz	1	with	1				
		2W NO (1)	2a	1.6	3	EPDM	Ε	Slot	2	12	2	AC8W 60Hz	2	with LED	2					
		3M NC	3	2.0	4			Knob	3	24	3	DC10W	3	with bi- color LED	3					
	M-V-6/6-1013 ect operated		3W NO (1)	4a	2.4	5			Push	4	48	4	AC5.5W 50Hz	4	flying leads coil	4				
1/8"BSP with	Mazak body	, 3WNC, 1.2, FK	M,										Push lock	5	110	5	AC5.5W 60Hz	5	with 1/2" Hub	5
slot M/0, 12\	AC 8W 60H	z without conr	nector.												120	6	AC2.5W 50/60Hz	6	connector with moulded cable	7
GEM-V - 6	/ 6 - 10	1 3 2	V	2 -	2 2		0								220	7A	DC5.5W	7	other	9
	(1) Supply pressure through base (2) For specifying Latch type coil, please refer to GEM-A3P valve - How to Order table.													230	7	DC3.5W	8			
(_, ,	9 1)														240	8				
	0		alteritation	1		_	:441-			_1 .	L C.				Latch/	9				

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

GEM-V _	No. of VALVES	No. of STATIONS	PORT	BODY	FUNCTION	ORIFICE	SEALS	MANUAL OVERRIDE	H	VOLTAGE	POWER	CONNECTOR
	specify quantity specify quantity	specify quantity specify quantity				As above to	able			,		

Example : GEM-V-3/6-10142N0-221 : Example: GEM-V-1/6-10112N0-221:

2/6 stations with 1/8"BSP Mazak, 3WNC, 12, NBR, no M/0,12V AC 8W 60Hz with connector 3/6 stations with 1/8"BSP Mazak, 3WNO, 12, NBR, no M/0,12V AC 8W 60Hz with connector 1/6 stations with 1/8"BSP Mazak, 2WNC, 1.2, NBR, no M/0,12V AC 8W 60Hz with connector

GEM-SOL direct operated sub-base V type of which:

How to Order | GEM-V body

	GEM-V-BODY	-	PORT		BODY		FUNCTIO	N	ORIFICE		SEALS		MANUAL OVERRIDE		VOLTAG	E	POWER		CONNECTOR	
			1/8"BSP	10	Mazak	1	2W NC	1	0.8	1	NBR	N	None	0	W/out co	il O	No coil	0	without	0
			1/8"NPT	11	Brass	2	2W NO	2	1.2	2	FKM	V	Plastic	1	6	1	AC8W 50Hz	1	with	1
							2W NO (1)	2a	1.6	3	EPDM	Ε	Slot	2	12	2	AC8W 60Hz	2	with LED	2
							3W NC	3	2.0	4			Knob	3	24	3	DC10W	3	with bi- color LED	3
	3W NO (0 4a 2.4 5 Push 4												4	48	4	AC5.5W 50Hz	4	flying leads coil	4	
													Push lock	5	110	5	AC5.5W 60Hz	5	with 1/2" Hub	5
	ample : GEN					- 1/	OllDOD	ı.l.							120	6	AC2.5W 50/60Hz	6	connector with moulded cable	7
Ma	M-SOL dire azak body,	3W	/NC, 1.2, F		<i>-</i> -				Hz						220	7A	DC5.5W	7	other	9
Wİ	thout conn	ect	tor.	_				_		_					230	7	DC3.5W	8		
GE	M-V-BODY -	10	1	3	2	V	2 - 2	2	2 0						240	8				
	Supply press For specifyir					efer	to GEM-A3	3P v	alve - How	to	Order table	2.			Latch/ other (2)	9				

How to Order | GEM-VL

GEM-VL	- POR	Т	BODY		FUNCTIO	N	ORIFICE		SEALS		MANUAL OVERRIDE	-	VOLTAGE		POWER		CONNECTOR	
	1/8"BSP	10	Mazak	1	2W NC	1	0.8	1	NBR	N	None	0	W/out coi	0	No coil	0	without	0
	1/8"NPT	11	Brass	2	2W NO	2	1.2	2	FKM	V	Plastic	1	6	1	AC8W 50Hz	1	with	1
							1.6	3	EPDM	Ε	Slot	2	12	2	AC8W 60Hz	2	with LED	2
		3M NC	3	2.0	4			Knob	3	24	3	DC10W	3	with bi- color LED	3			
	3W NO [□] 4.										Push	4	48	4	AC5.5W 50Hz	4	flying leads coil	4
Example : GEN							3.0	6			Push lock	5	110	5	AC5.5W 60Hz	5	with 1/2" Hub	5
GEM-SOL dired 1/8"BSP with b	rass body	y, 2V	/NC, 0.8,	FKN									120	6	AC2.5W 50/60Hz	6	connector with moulded cable	7
no M/0, 12V A		z wit	h conne	cto									220	7A	DC5.5W	7	other	9
GEM-VL - 10	2 1		I V	0	- 2	2	1						230	7	DC3.5W	8		
	(1) Supply pressure through base (2) For specifying Latch type coil, please refer to GEM-A3P valve - How to Order table.													8				
*Note: Manifolds are not available for VL valves													Latch/	9				