SOLENOID VALVES | Spare Parts

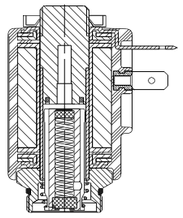
Operators

GEM-O | Operator 2 Way, 3 Way NC, NO

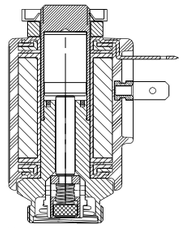
Applicable for GEM-A, GEM-S & GEM-Z valves

NO through base

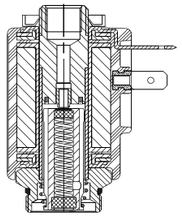
Standard 2W/3W



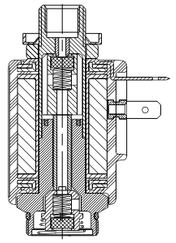
2W NC



2W NOa through base



3W



3W NOa through base

Technical Data

Function	2 Way, 3 Way NC, NO
Orifice size	0.8 to 3mm
Pressure range (bars)	See solenoid valve performances
Temperature range	**Fluid :** -10°C to 80°C (no freezing) **Ambient :** -10°C to 50°C
Response time	16 to 36 ms complete cycle
Materials in contact with media	**Operator:** Stainless Steel AISI 300 & 400 series **Shading ring:** standard - Copper upon request - silver and aluminium Note : Operator for DC is without shading ring and may not be used for AC **Orifice:** Stainless Steel **Spring:** Stainless Steel AISI 300 series
Media	Air, gas, water, fuel, oil etc.
Threads on operator tube	G1/4" male and G1/8" or 1/8" NPT female to connect exhaust, muffler etc.
Operator assembly	By screwing M20x1 hexagonal 22mm to the valve body and fixing coil by one G1/4" hexagonal 19mm metal or plastic nut. • Max. tightening torque : 3 N/m
Coil fixing	Any position, can be turned 360° around the operator.
Coil data	See technical GEM-SOL coil data
Coil voltage	• Voltage and power consumption - see table • All Baccara coil voltages are ±10% of nominal

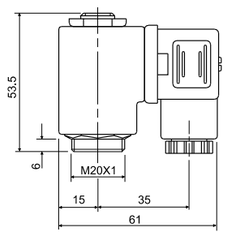
• ADC operators and valves are suitable for use with AC 8W or DC 10W.

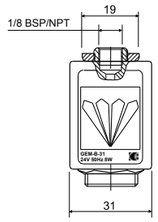
Voltage & Power Consumption

	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	•			•			•		

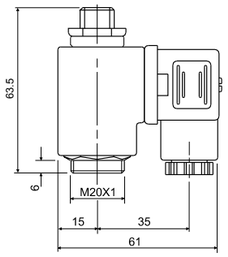
• Available options

Dimensions

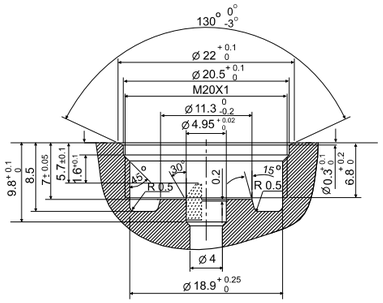




2W/3W NC, NO



2W/3W NO through base



Operator seat

How to Order

2W

GEM-O	-	2W	FUNCTION		SEALS		VOLTAGE		POWER		CONNECTOR	
			2W NC	1	NBR	N	W/out coil	0	No coil	0	without	0
			2W NO (1)	2a	FKM	V	6	1	AC8W 50Hz	1	with	1
					EPDM	E	12	2	AC8W 60Hz	2	with LED	2
					PTFE (3)	T	24	3	DC10W	3	with bi- color LED	3
					FFKM (2)	K	48	4	AC5.5W 50Hz	4	flying leads coil	4
							110	5	AC5.5W 60Hz	5	with 1/2" Hub	5
							120	6	AC2.5W 50/60Hz	6	surge protection with LED	6
							220	7A	DC5.5W	7	connector with moulded cable	7
							230	7	DC3.5W	8	other	9
							240	8				
							Latch/ other (4)	9				

3W

GEM-O	-	PORT		FUNCTION		ORIFICE	
		1/8"BSP	10	2W NO	2	0.8	1
		1/8"NPT	11	3W NC	3	1.2	2
				3W NO	4	1.6	3
				3W NO (1)	4a	2.0	4
						2.4	5
						3.0	6

Example : GEM-O-2W1-N-341

GEM-SOL Operator **2W NC**, NBR, 24V AC 5.5W 50Hz with connector.

GEM-O	-	2W	1	-	N	-	3	4	1

Example : GEM-O-1034-V-341

GEM-SOL Operator, 1/8"BSP, **3W NC**, Orifice 2.0, FKM, 24V AC 5.5W 50Hz with connector.

GEM-O	-	10	3	4	-	V	-	3	4	1

(1) Supply pressure through base
(2) FFKM O-ring is available only upon request.
When ordering FFKM seals, please consult with our technical sales department about O-ring compound.
(3) For PTFE seals, the O-ring is FKM seal as default. Please contact us if you require a different O-ring material.
(4) For specifying Latch type coil, please refer to GEM-A3P valve - How to Order table.
* Note: When ordering without coil, please define what current and pressure rating is needed (DC, AC or ADC), otherwise an ADC valve will be supplied.

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