

GEM-SOL® | PR22 (G80-PR) Special

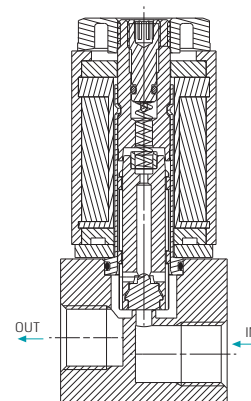
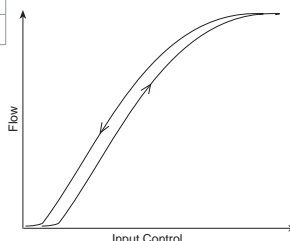
Proportional 2 Way NC

Technical Data

Function	2 Way NC
Ports size	M5, 1/8" BSP & NPT
Orifice size	See table
Pressure range	Vacuum - see table
Kv (l/min)	See table
Temperature range	Fluid : -10°C to 80°C (no freezing) Ambient : -10°C to 55°C
Materials in contact with media	Main Valve: Aluminium, Brass, Stainless Steel AISI 316 Solenoid Operator: Stainless Steel AISI 300 & 400 series, Brass Seals: NBR, FKM, EPDM, FFKM (other, on request) Guide rings: PTFE
Media	Neutral gases, water, oil Max. viscosity 21mm ² /s
The control parameter is the current in the coil!	
Operating current	100-500[mA] standard voltage 24V DC(=)
Electrical connection	Per DIN 43650-b, or 2 flying leads 18AWG (0.75mm ²) 300 mm length
Standard protection class	IP65 with connector



Stainless Steel | 1/8"



Guidelines for selection

1. The pressure drop (ΔP) on the valve should be 30-50% or higher, of the total pressure drop in the system.
2. Special consideration should be taken in choosing the right Kv of the valve as this factor determines the flow and pressure drop of the valve.
3. To achieve better regulation performance when working without a control unit, the maximum pressure should be 1.2 times the working pressure. The maximum pressure can be adjusted using the upper screw.
4. Inlet pressure should be kept constant during operation.

Standard calibration pressure (bar)

	Orifice size (mm)				
	1.0	1.2	1.6	2.0	2.4
Pressure rating (bar) ⁽¹⁾	10	8	6	5	4
Flow factor Kv(l/min)	0.5	0.65	1.0	1.6	2.0

- (1) From technical vacuum to max. rating
- (2) Other calibration pressures on request

Flow regulation :

With control unit PWM 500[Hz] measured at constant ΔP (delta P)

Hysteresis	<5% of FS
Repeatability	<3% of FS
Sensitivity	<2% of FS

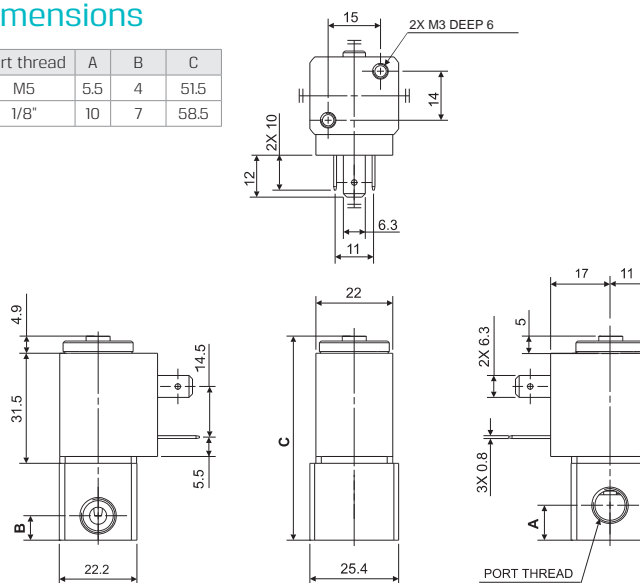
Voltage & Power Consumption

V	DC (W)	
	6	3
6	•	•
12	•	•
24	•	•
110		
230		

• Available options

Dimensions

Port thread	A	B	C
M5	5.5	4	51.5
1/8"	10	7	58.5



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