SOLENOID VALVES | GEM-SOL® | Special Purpose

Proportional

GEM-SOL® | PR32 (GEM-PR)

Proportional 2 Way NC

Technical Data

Function	2 Way NC
Ports size	1/8", 1/4" BSP & NPT
Orifice size	See table
Pressure range	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: Brass, Stainless Steel AISI 316 Solenoid Operator: Stainless Steel AISI 300 & 400 series Seals: NBR, FKM, EPDM, Polyurethane, PTFE Guide rings: PTFE
Media	Neutral gases, water, oil Max. viscosity 21mm²/s
The control parameter is the current in the coil.	100 7001 1
Operating current	100-500[mA] standard voltage 24V DC(=)
Electrical connection	Per DIN 43650-a, or 2 flying leads 18AWG (0.75mm²) 300 mm length
Standard protection class	IP65 with connector * Option : IP68 (please refer to GEM-BP Coil)

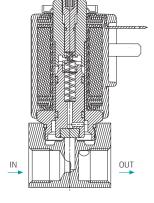


Stainless Steel

Guidelines for selection

- 1. The pressure drop (\triangle P) on the valve should be 30-50% or higher, of the total pressure drop in the system.
- 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 1.1 times the working pressure. The maximum pressure can be adjusted using the upper screw.
- 4. Inlet pressure should be kept constant during operation.

Input Control



Standard calibration pressure (bar)

	Orifice size (mm)							
	0.8	1.2	1.6	2.0	2.4	3.0	4.0	
Pressure rating(bar) (1)	16	12	10	8	6	3.5	2	
Flow factor Kv(I/min)	0.6	1.1	1.7	2.5	3.5	4.5	5	

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

Flow regulation:

With control unit PWM 500[Hz] measured at constant $\triangle P$ (delta P).

Hysteresis <5% of F.S Repeatability <3% of F.S Sensitivity <2% of F.S

Voltage & Power Consumption

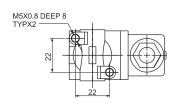
DC (W)							
V	10	5.5	3.5				
6							
12	•						
24	•						
48							
110							
120							
220							
230							
240							

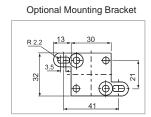
• Available options

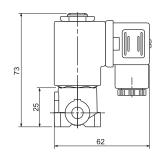


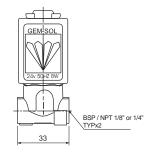
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Dimensions









How to Order



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

Example: GEM-PR-21015N0-1

GEM-SOL $^{\circ}$ PR32 (GEM-PR) Proportional, Brass, 1/8" BSP, 2W NC, 2.4 orifice, NBR, without manual override, with connector.

* Please specify the working pressure range when placing an order

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