SOLENOID VALVES | GEM-SOL® | Special Purpose

Proportional

GEM-SOL® | PR16 (G65-PR) Special

Proportional 2 Way NC

Technical Data

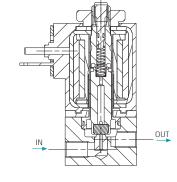
Function	2 Way NC		
Ports size	M5, #10UNF, 1/8" BSP & NPT		
Orifice size	See table		
Pressure range	Vacuum - see table		
Kv (I/min)	See table		
Temperature range	Fluid: -10°C to 80°C (no freezing) Ambient: -10°C to 55°C		
Materials in contact with media	Main Valve: Aluminium, Brass, Stainless Steel AISI 316 Solenoid Operator: Stainless Steel AISI 300 & 400 series, Brass Seals: NBR, FKM, EPDM (other seals on request) Guide rings: PTFE		
Media	Air, water, oil		
The control parameter is the current in the coil! Operating current	Max. 1500[mA] standard voltage 24V DC(=)		
Electrical connection	Per DIN 43650-b, or 2 flying leads 18AWG (0.75mm²) 300 mm length		
Ctandard protection class	IP65 with connector		
Standard protection class	II OO WICH OOMICOLOI		



Guidelines for selection:

- 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 1.2 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	1.0	1.2	1.6
Pressure rating [bar] (1)	10	8	6	4
Flow factor Kv(l/min)	0.4	0.5	0.65	1.2

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

${\bf Flow}\ regulation:$

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

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

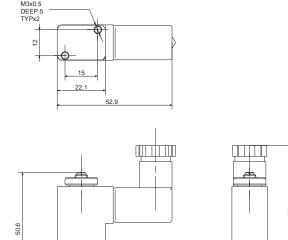
Voltage & Power Consumption

	AC 5	DC (W)	
V	3.2VA	3.6VA	3
12			•
24			•
110			
230			

· Available options

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

Dimensions



M5x0.8

