

## Proportional solenoid valves

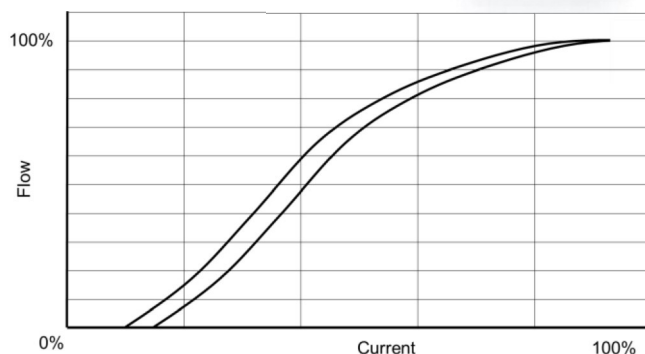
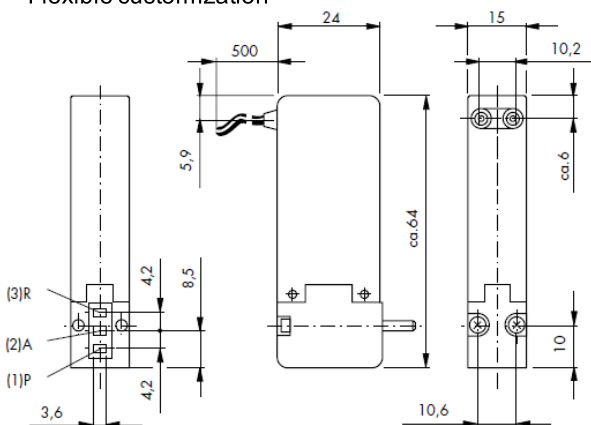
## Fluid technology

### 15mm Proportional valve

The 68 proportional solenoid valve has been specially developed for the energy-efficient and quiet control of gases. With a flow rate of up to 160 l / min air, this valve meets the high-quality requirements of medical and analysis technology. The compact, cost-effective design and the possibility of adapting the valve according to customer requirements ensure that it can be easily integrated into existing applications.

#### Properties

- Compact design
- Cost efficient
- Flexible customization



The diagram shows the isolated behavior of the valve by constant current control. For all proportional applications we recommend a valve specific PWM control with additional dither if highest performance is required.

Technical data <sup>1</sup>	15 mm flow proportional solenoid valve, 68 series			
Voltage supply (U <sub>Nom</sub> )	24 V DC or 12 V DC ±10%			
Power consumption (P <sub>Nom</sub> )	0- 4,2W / 0- 5,2W depending on type			
Recommended control*	Pulse width modulation (PWM) 600 Hz-1 kHz, Dither 50-200 Hz *Electronic controller for regulated/ controlled applications on request			
Typical flow characteristic by constant current control	Hysteresis <15% of end value.; Repeatability <1,0% of end value.; Sensitivity <1,0% of end value; Setting range 5%-95%;			
Pressure range (p)	0...7 bar (depending on orifice), others on request			
Control input	ca. 40- 215 mA depending on type			
Flow range (Q <sub>n</sub> )	0...160 NI/min			
Orifices (others on request)	1,3 mm	1,6 mm	1,9 mm	2,1 mm
Kv-value	0,7 l/min	1,05 l/min	1,4 l/min	1,7 l/min
Media	Air, neutral gases; Liquids and oxygen on request			
Function	2/2-way, normally closed			
Pneumatic connection	Flange			
Electrical connection	Pins (PCB mounted) or flying leads			
Ambient temperature	-10°C ... +40°C			
Protection classification	IP 40, IP 65 with flying leads			
Dimension (H x W x D)	64 mm x 15 mm x 24 mm (Pins-version)			

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