

## Proportional solenoid valves

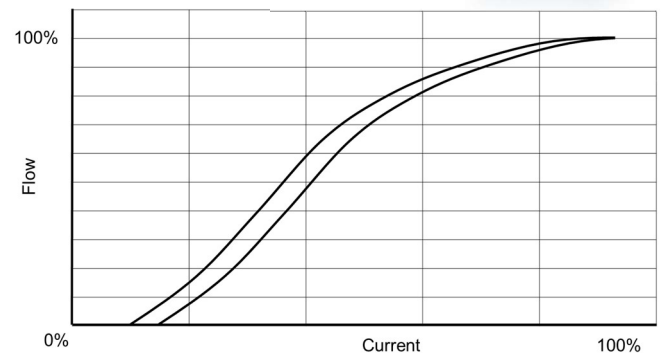
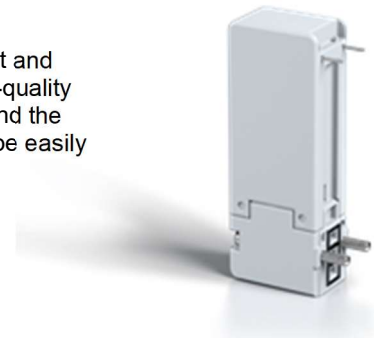
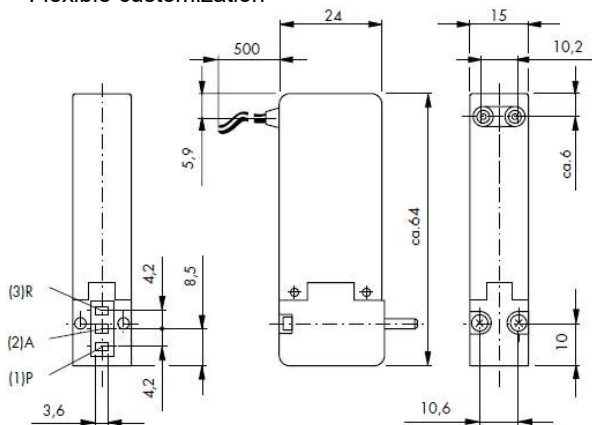
## Fluid technology

### 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					
<b>Voltage supply (U<sub>Nom</sub>)</b>	24 V DC or 12 V DC ±10%					
<b>Power consumption (P<sub>Nom</sub>)</b>	0- 4,2W / 0- 5,2W depending on type					
<b>Recommended control*</b>	Pulse width modulation (PWM) 600 Hz-1 kHz, Dither 50-200 Hz *Electronic controller for regulated/ controlled applications on request					
<b>Typical flow characteristic by constant current control</b>	Hysteresis <15% of end value.; Repeatability <1,0% of end value.; Sensitivity <1,0% of end value; Setting range 5%-95%;					
<b>Pressure range (p)</b>	0...8 bar (depending on orifice), others on request					
<b>Control input</b>	ca. 40- 215 mA depending on type					
<b>Flow range (Q<sub>n</sub>)</b>	0...160 NI/min					
<b>Orifices (others on request)</b>	1,3 mm	1,6 mm	1,9 mm	2,1 mm	2,3 mm	2,5 mm
<b>Kv-value</b>	0,65 l/min	1,05 l/min	1,4 l/min	1,75 l/min	2,05 l/min	2,4 l/min
<b>Media</b>	Air, neutral gases; Liquids and oxygen on request					
<b>Function</b>	2/2-way, normally closed					
<b>Pneumatic connection</b>	Flange					
<b>Electrical connection</b>	Pins (PCB mounted), Plug or flying leads					
<b>Ambient temperature</b>	-10°C ... +40°C					
<b>Protection classification</b>	IP 40, IP 65 with flying leads					
<b>Dimension (H x W x D)</b>	64 mm x 15 mm x 24 mm (Pins-version)					

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