

## Precision Valve Solutions for Medical Devices



### Valves for life-saving Technology

Staiger Valves, known for their precision, cleanliness, reliability and compact design, provide peak performance in respiratory care, anesthesia, dialysis and infusion systems, improving safety and innovation in current medical technology around the world.

#### General application areas:



Ventilator & anesthesia machine



Homecare devices



Surgical instruments



Incubator

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## Examples of customized use-cases and Staiger solutions

#### For ventilators



#### Valve block for drug nebulizer

Manifold with 3 Spider valves and 2 pressure regulators

#### For anesthesia devices



#### O<sub>2</sub> flush button

Manual on/off valve based on Spider technology for oxygen

#### For bronchial suction systems



#### Regulation of the vacuum flow

Multiway valve block with manual rotary switch and throttle valve

#### For anesthesia devices



#### Switch-over valve for internal or external breathing systems

3-way latching valve with position detection sensor

#### For bio-reactors



#### Piloting chemical and biological processes

Valve manifold with 24 valves for multi-channel flow control

#### For medical devices



#### Dosing and controlling gases and compressed air in the system

Staiger proportional and on/off valves



## Staiger Valves for Medical Technology

<p><b>2/2-way on/off Valve</b></p>  <p>Ø 5 mm      Ø 21 mm</p>	<p>Controls air or oxygen flow in portable or stationary ventilators, oxygen concentrators and compact therapeutic devices</p>	<p><b>Sealing material:</b> FKM, FFKM, EPDM  <b>Pressure range:</b> 0 to 10 bar  <b>Kv value:</b> 0.04 to 2.56 lpm  <b>Cv value:</b> 0.0028 to 0.1789 gpm  <b>Max. air flow:</b> 6 to 102 lpm</p> <p>→ More details</p>
<p><b>2-way Proportional Valve</b></p>  <p>Ø 8 mm      Ø 15 mm</p>	<p>Dosing oxygen, nitrous oxide, compressed air and other gases in the overall system</p>	<p><b>Sealing material:</b> FKM, FFKM, EPDM  <b>Pressure range:</b> 0 to 10 bar  <b>Kv value:</b> 0.05 to 0.98 lpm  <b>Cv value:</b> 0.0035 to 0.0685 gpm  <b>Max. air flow:</b> 7.3 to 52 lpm</p> <p>→ More details</p>
<p><b>2-way High Flow Proportional Valve</b></p>  <p>Ø 15 mm</p>	<p>Controlling oxygen, nitrous oxide, compressed air and anesthetic gases</p>	<p><b>Sealing material:</b> FKM  <b>Pressure range:</b> 0 to 7 bar  <b>Kv value:</b> 5.39 lpm  <b>Cv value:</b> 0.3768 gpm  <b>Max. air flow @ 2 bar:</b> &gt; 200 lpm</p> <p>→ More details</p>
<p><b>3/2-way on/off Valve</b></p>  <p>Ø 8 mm      Ø 21 mm</p>	<p>Ventilators, air/oxygen switching, respiratory flow control, PEEP control and CPAP/BiPAP for pressure adjustment</p>	<p><b>Sealing material:</b> FKM, FFKM, EPDM  <b>Pressure range:</b> 0 to 10 bar  <b>Kv value:</b> 0.05 to 3.00 lpm  <b>Cv value:</b> 0.0035 to 0.2097 gpm  <b>Max. air flow:</b> 7 to 80 lpm</p> <p>→ More details</p>
<p><b>2/2-way Solenoid Valve (Brass and Aluminium)</b></p> 	<p>Controlling oxygen, nitrous oxide, compressed air and anesthetic gases</p>	<p><b>Sealing material:</b> NBR, EPDM, FPM  <b>Pressure range:</b> 0 to 10 bar  <b>Kv value:</b> 0.5 to 4 lpm  <b>Cv value:</b> 0.0374 to 1.2716 gpm  <b>Max. air flow:</b> 13 to 265 lpm</p> <p>→ More details NO (normally open)          → More details NC (normally closed)</p>

### COMPANY PORTRAIT

For more than 50 years we have been developing and producing with about 200 highly qualified employees innovative solenoid valves and valve manifolds according to customer requirements here in Germany.

At our site in Erligheim (nearby Stuttgart) we manufacture everything, from one single piece, over serial production up to mass production. Hereby we also create all necessary

manufacturing and testing devices in house. This unique know how enables us to develop cost efficient high-tech solutions, which create a real competitive advantage for our customers.

It is therefore no coincidence that our customers are global market leaders of the industries Medical Technology, Automotive, Industrial, Pneumatics, Aeronautics and last but not least Drinking Water.

### PERSONALIZED SERVICE & INDIVIDUAL SOLUTIONS



Phone: +49 (0) 7143 2707-0

We gladly provide you with more information about special designs and customized products according to your demands and standards. We look forward to receiving your request.