Cartridge Solenoid Valve Type 6164

for neutral gases

- Excellent Reliability
- Optimal Integration
- Low Power Consumption
- O₂ Compatibility

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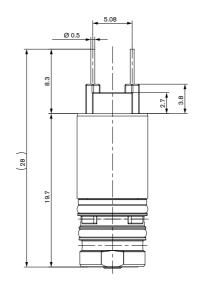
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More than just a pilot valve ...

Superior ratio of size to fluidic performance

The cartridge valve, Type 6164, simplifies pneumatic piloting controls through optimal integration in block solutions and plastic injection components. Due to its uncompromising reliability, above-average service life and efficient performance, this valve is setting new standards. Install and forget – this is the best way to describe the new standard cartridge valve, a 3/2-way valve with guaranteed reliability and a long life cycle, due to the use of high-quality materials.

- Compact design with 11 mm width per station
- Orifices from 0,5 mm (9 bar/130 psi) to 1,2 mm (1,5 bar/21.7 psi)
- High durability and reliability
- Low power consumption, as well as optional ATEX Ex ia version
- Design for optimum integration



Technical data & features:

Orifice and pressure range	DN 0,5 mm (Vac-9bar/130psi)DN 1,2 mm (Vac-1,5bar/21.7psi)
Permissible leakage	VAC - 10 bar/145 psi (Dependent on the version used) 1)
Body material	PEEK
Seal material	FKM
Medium & ambient temperature	neutral gas-10 to +55 °C
Medium temperature FKM	-10 to +55 °C
Typical life span	>100.000.000 switching cycles (accordance to endurance tests)
Port connection	Bürkert-Cartridge-Connection
Electrical connection	Plug / SolderFlying leads on request
Operation voltage	12 and 24 V DC (other voltages on request)

Power consumption	0,7W (DN 0,5)2,8W (DN 1,2) (with external electric power reduction)
Duty cycle	100% continuous rating
Response times Open Closed	Measurement at valve oulet acc. to DIN ISO 12238:2001 <10ms (pressure rise 0-10%) <10ms (pressure drop 100-90%)
Switching frequency	16Hz
Switching noise	42 dB ³⁾
Approvals and conformity for selected variants	 ATEX Ex ia - II 2G Ex ia IIC T4 T5 T6 PTB01 ATEX 2048 4) IEC Ex PTB 07.0063 4) FM Class I Div II 4) UL class 2 4) Oxygen compatible 4)

- 1) Overpressure to the atmospheric pressure
- 2) Life span is dependent on temperature, pressure and operating conditons
- 3) According to ISO3745, testing environment in brass manifold, free-hanging
- 4) in preparation

Your advantages

Reliability

Every team is only as strong as its smallest player

The high life span of 100 million cycles allows Type 6164 to be used as an embedded component or for permanent integration without the need for maintenance or replacement. This provides reliability in applications such as in production porcesses, where every producing minute is directly linked to your profit and where production depends on even the smallest process components.



Optimal Integration (especially in mobile devices) Out of sight, out of mind

With an outer diameter of 9mm and a height of 28mm, Type 6164 provides easy integration into plastic moulded parts and compact mobile devices. Thanks to the new cartridge design, easy "plugand-play" capabilities allow the valve to be installed in even the smallest spaces, so you can design your device conveniently compact and easily portable. See the size comparison to the right of the previous and new solution of our pneumatic dosing system.



Low Power Consumption All the energy you need to perform

Type 6164's low power consumption of only 0,7W reduces the overall power consumption of the entire device. This means that your portable device can go the extra mile and be ready for use when it really counts. Its low switching noice reduces the sound level of the overall system and gives patient and caregiver the quiet they need to focus on what's important.



O2 compatibility

Take a relaxing breath

Type 6164 has excellent suitability for the control of oxygen gas; for example, in mechanical ventilation and O2 concentrators. Its reliability and quiet operation makes it ideal for the application at the point of care, even with our most sensitive patients, newborns in incubators. Let Type 6164 give you peace of mind so that your customer can focus on the care of the patient.

