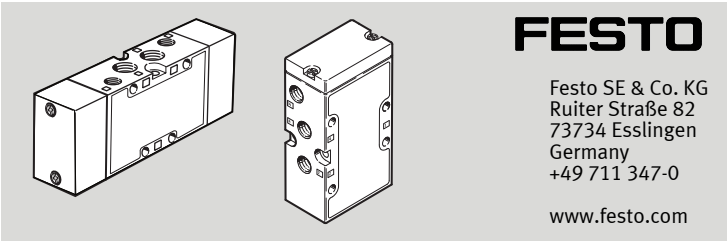


VL-/J-...-B-EX  
Pneumatic valve Tiger 2000



Operating conditions | EX

8095993  
2018-08c  
[8095995]



Translation of the original instructions

1 Identification EX

Identification mark		
	II 2G	Ex h IIC T4 Gb
	II 2D	Ex h IIC T130°C Db
		-10°C ≤ T <sub>a</sub> ≤ +60°C

Tab. 1

2 Further applicable documents

**NOTICE!**

Technical data for the product can have different values in other documents. For operation in an explosive atmosphere, the technical data in this document always have priority.

All available documents for the product → [www.festo.com/pk](http://www.festo.com/pk).

3 Function

By means of pneumatic switching, the valve pressurises the downstream compressed air flows alternately or simultaneously. The bistable valve is rerouted through reciprocal switching on of the control pressure and maintains the switching position up to the counter-signal even after the signal is removed.

4 Safety

4.1 Safety instructions

- The device can be used under the stated operating conditions in zones 1 and 2, explosive gas atmospheres, and in zones 21 and 22, explosive dust atmospheres.
- All work must be carried out outside of potentially explosive areas.
- The device is not intended for use with other fluids.

4.2 Intended use

The valves are intended for controlling pneumatic actuators.

5 Commissioning

**WARNING!**

- The discharge of electrostatically charged parts can lead to ignitable sparks.
- Prevent electrostatic discharge by taking appropriate installation and cleaning measures.
  - Include the device in the system’s potential equalisation.

**NOTICE!**

Strong charge-generating processes can charge non-conductive layers and coatings on metal surfaces.

**NOTICE!**

Draw in compressed air outside of the explosive atmosphere.

**NOTICE!**

Escaping exhaust air can swirl up dust and create an explosive dust atmosphere.

**NOTICE!**

Particulate matter in the compressed air can cause electrostatic charges.

**NOTICE!**

Related type of ignition protection: c (constructional safety)

- Observe the product labelling.
- Seal unused openings with blanking plugs or slot covers.
- For battery/block mounting, mount the valves to the manifold rails or manifold blocks intended for it.
- When selecting the materials of assembly aids and mounting accessories, observe corrosion, wear and interactions.

6 Service and care

- Check the operational reliability of the device regularly. Interval: 5 million movement cycles or after 6 months at the latest.

7 Fault clearance

Malfunction	Remedy
Audible leakage at the connections	Check fittings of the connections.
Incomplete ventilation of an output	Ensure constant pressure in the system

Tab. 2

8 Technical data

Operating conditions		
Max. operating pressure	[bar]	10
Max. pilot pressure	[bar]	10
Ambient temperature	[°C]	-10 ... +60
Temperature of medium	[°C]	-10 ... +60
Operating medium		Compressed air to ISO 85731: 2010: [5:-:-]
Max. tightening torque		
Fitting	[Nm]	1.5 ... 2
Valve fastening	[Nm]	3.5 ... 4
Mounting position		Any
Materials		
Housing		Die-cast aluminium
Seals		NBR
All aluminium alloys used contain less than 7.5 % magnesium (Mg).		

Tab. 3