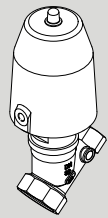


VZXF-L-M22C-M-

Angle seat valve



FESTO

Festo AG & Co. KG
Ruiter Straße 82
73734 Esslingen
Germany
+49 711 347-0

www.festo.com

Operating conditions | EX

8103146
2018-11a
[8103148]



8103146

Translation of the original instructions

1 Identification EX

Identification		
	II 2G	Ex h IIC T6...T3 Gb X
	II 2D	Ex h IIIC T80°C...T200°C Db X

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.

3 Function

The angle seat valve is an externally controlled 2/2 directional control valve. At normal position, the valve is closed by spring force (normally closed – NC).

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.
- Only use media in accordance with the specifications.
- Do not operate the device with chemically unstable gases, abrasive media and solid materials is not permitted.
- Extraction of the operating medium outside the potentially explosive area.
- The device is not intended for use with other fluids.

4.2 Intended use

Valves of the series VZXF-L-M22C-M-... are intended to control gaseous and liquid media in rigid piping systems.

4.3 Identification X: special conditions

- Ambient temperature: $-10^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
- The maximum surface temperature is not dependent on the device itself, but mainly on the temperature of the medium flowing through.
- The maximum possible temperature of medium is limited by the seal material used: NBR = $+80^{\circ}\text{C}$, PTFE = $+200^{\circ}\text{C}$

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!

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

NOTICE!

Related type of ignition protection: c (constructional safety)

NOTICE!

Particulate matter in the compressed air can cause electrostatic charges.

- Observe the product labelling.

6 Maintenance and care

- After no more than 500,000 switching cycles: replace device.
- To prevent leakages, check the smooth functioning of the device in regular cycles.

7 Technical data

Operating conditions

Medium pressure	[bar]	3 ... 40
Operating pressure	[bar]	6 ... 10 ¹⁾
Ambient temperature	[°C]	-10 ... +60
Temperature of medium		
Seal NBR	[°C]	-10 ... +80
Seal PTFE	[°C]	-40 ... +200
Max. switching frequency [Hz]		
		0.5
Operating medium		Compressed air to ISO 85731: 2010 [7:4:4]
Valve function		2/2-way, closed, monostable
Design		Poppet valve with spring return
Type of mounting		In-line installation
Mounting position		Any
Materials		
Housing		Red brass, stainless steel
Actuator		Brass, stainless steel
Spindle washer		NBR, PTFE
Seat seal		PTFE
All aluminium alloys used contain less than 7.5 % magnesium (Mg).		

1) depending on the operating conditions → Operating instructions

Tab. 2