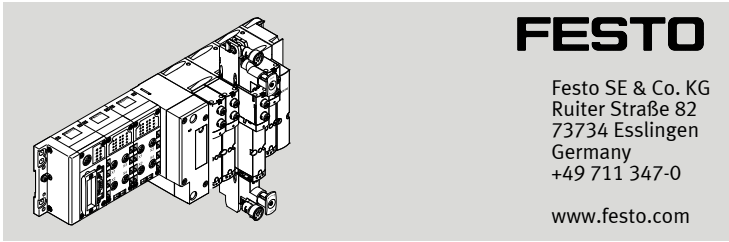


VTSA-FB-EX1E
Valve terminal



Addendum document | Operating conditions EX

8146458
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[8146460]



Translation of the original instructions
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1 Identification EX

Table with 2 columns: Identification, Order code. Row 1: II 3G, Ex nA IIC T3 X Gc, VTSA-FB-EX1E-...-44E(N)-...-EX1E, VTSA-FB-EX1E-...-45E(N)-...-EX1E

Tab. 1

2 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/sp.

3 Safety

3.1 Safety instructions

- The device can be used under the stated operating conditions in zone 2 of explosive gas atmospheres.
- Use the device in its original status without any unauthorised modifications.
- The device may only be used in the delivered configuration in a potentially explosive atmosphere.
- All work must be carried out outside of potentially explosive areas.
- Observe the specifications on the product labelling.
- Prevent processes that generate high charges.
- Limit the power supply of the CPX terminal to 8 A per supply contact.
- Seal all unused electrical connections with protective caps.
- Use only media in accordance with the specifications -> 7 Technical data.
- Electronics modules and valve plates can be replaced.
- Use only approved components.

3.2 Intended use

Valve terminals are configurable functional units for control of complex pneumatic drive systems.

3.3 Identification X: special conditions

- Install the device in a housing with at least IP54 (in accordance with EN 60079-15).
- Do not disconnect or open when powered.
- Prevent separation of the plug connectors or housing parts by using a housing with special lock.
- Use strain relief for the cables in front of all plugs.
- Prevent electrostatic charge of the housing with appropriate installation measures.
- Only one coil of a 5/3-way or 5/2-way valve is energised at a time.
- Ambient temperature: -5 °C ≤ Ta ≤ +50 °C
- Protect device from UV radiation.
- Protect device from any shock loading.

4 Commissioning

WARNING!

- The discharge of electrostatically charged parts can lead to ignitable sparks.
- Prevent electrostatic charging by taking appropriate installation and cleaning measures.
  - Include the device in the system equipotential bonding.

VMPA-FB-PS-1, VMPA-FB-PS-3/5, VMPA-FB-PS-P1

WARNING!

- Cyclic compression of the compressed air can overheat the device.
- Avoid overheating by cyclical compression of the compressed air.
- Ensure a minimum permissible cycle in case of pressure fluctuations.
    - Reference value: differential pressure [bar]/2 = cycle [s].

5 Operation

WARNING!

- Electrically generated sparks can ignite a potentially explosive atmosphere and cause an explosion.
- Do not disconnect or open when powered.

6 Maintenance and care

- Wearing and spare parts can be replaced in individual cases. Work of this type must be carried out by trained and authorised specialists only. Please contact your Festo technical consultant.
- Check the tightening torques of all housing screws every six months.

7 Technical data

Table with 2 columns: Parameter, Value. Rows include: Deviating operating conditions, Ambient temperature, Operating medium, Information on the operating medium, Nominal operating voltage, Nominal power/current consumption per solenoid coil, Current supply per supply contact, Max. switching frequency, Max. pulse/pause ratio at > 2 Hz, Contamination level, Degree of protection, Tightening torque, Earthing screw, Tie rod, Plug M12, Plug M8, Plug SUB-D.

Tab. 2