

VTUS-VUVS
Valve Terminal Combination

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Operating conditions | EX

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Translation of the original instructions

1 Identification EX

Table with 2 columns: Identification, and details for II 3G Ex ec IIC T4 Gc and II 3D Ex tc IIIC T115°C X Dc.

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 Safety

3.1 Safety instructions

- The device can be used under the stated operating conditions in zone 2, explosive gas atmospheres, and in zone 22, explosive dust atmospheres.
- The following work should only be performed outside potentially explosive areas: commissioning, maintenance, mounting.

3.2 Intended use

The valve terminal VTUS is intended for control of pneumatic components.

3.3 Identification X: Special conditions

- Do not disconnect when powered.
- Use an additional strain relief upstream of the plug connector.
- Use only approved accessories.
- Protect the device from all mechanical impact.
- Protect device from UV radiation.
- Ambient temperature for individual mounting : -10 °C ≤ Ta ≤ +60 °C
- Ambient temperature for block mounting: -10 °C ≤ Ta ≤ +50 °C
- Only use in a clean environment.
- Individual valves with external pilot air: the maximum capacity at ports 12 and 14 amounts to 8 pF. The limit value for the group of devices IIB is observed.

4 Commissioning

WARNING!

- The discharge of electrostatically charged parts can lead to ignitable sparks.
- Include the device in the system’s potential equalisation.
 - Include the valve and coil separately in the equipotential bonding of the system.

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!

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

5 Operation

- Draw in operating medium outside potentially explosive areas.

6 Service and care

- Perform maintenance only outside potentially explosive areas.

7 Technical data

Table with 3 columns: Operating conditions, VTUS, and VUVS. Rows include Operating medium, Pilot air, Operating pressure, Ambient temperature, Temperature of medium, Storage temperature, Nominal operating voltage, Degree of protection, Degree of contamination, Mounting position, Duty cycle, Materials, Seals, Housing, Piston slide, and CE marking.

Tab. 2

Table with 2 columns: Additional conditions for VUWS valves, and values for Max. operating frequency and Max. ambient temperature.

Tab. 3

8 Approved combinations

Use only the following combinations:

Table with 4 columns: Valve terminal, Valve, Coil, and Plug socket. Rows show combinations for VTUS-20, VTUS-25, and VTUS-30.

Tab. 4