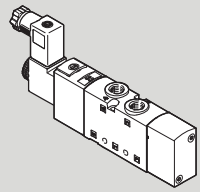


VTUS-VUVS

Valve Terminal Combination



FESTO

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Operating conditions | EX

8094403
2018-07a
[8094405]



Translation of the original instructions

1 Identification EX

Identification

	II 3G Ex ec IIC T4 Gc
	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: $-10\text{ °C} \leq T_a \leq +60\text{ °C}$
- Ambient temperature for block mounting: $-10\text{ °C} \leq T_a \leq +50\text{ °C}$
- 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

Operating conditions	VTUS	VUVS
Operating medium	Compressed air to ISO 8573-1:2010: [7:4:4]	
Pilot air [bar]	1.5 ... 10	
Operating pressure		
With internal pilot air [bar]	1.5 ... 10	
With external pilot air [bar]	-0.9 ... 10	
Ambient temperature [°C]	$-10 \leq T_a \leq +50$	$-10 \leq T_a \leq +60$
Temperature of medium [°C]	$-10 \leq T_a \leq +50$	$-10 \leq T_a \leq +60$
Storage temperature [°C]	$-20 \leq T_a \leq +60$	
Nominal operating voltage [V DC]	24 ± 10 %	
Degree of protection	IP65 in accordance with EN60529	
Degree of contamination	2	
Mounting position	–	Any
Duty cycle [%]	–	100 (continuous operation)
Materials		
Seals	NBR	
Housing	–	Painted die-cast aluminium
Piston slide	–	Aluminium alloy High-alloy stainless steel
CE marking	To EU Explosion Protection Directive (ATEX)	

Tab. 2

Additional conditions for VUVS valves

Max. operating frequency [Hz]	2
Max. ambient temperature [°C]	50

Tab. 3

8 Approved combinations

Use only the following combinations:

Valve terminal	Valve	Coil	Plug socket
VTUS-20-...-EX2	VUVS-L20-...-EX2 VUVS-LT20-...-EX2	VACS-C-C1-1-EX2	MSSD-EB-M12-24VDC-SD-EX
VTUS-25-...-EX2	VUVS-L25-...-EX2 VUVS-LT25-...-EX2	VACF-B-B2-1-EX2 VACF-B-C1-1-EX2	MSSD-F MSSD-EB-M12-24VDC-SD-EX
VTUS-30-...-EX2	VUVS-L30-...-EX2 VUVS-LT30-...-EX2	VACF-A-A1-1-EX2 VACF-B-B2-1-EX2 VACF-B-C1-1-EX2	MSSD-C-24V-EX MSSD-F MSSD-EB-M12-24VDC-SD-EX

Tab. 4