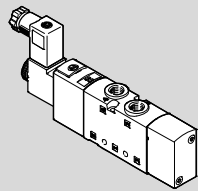


Valve Terminal Combination VTUS-VUVS



II 3G Ex ec IIC T4 Gc
II 3D Ex tc IIIC T115°C X Dc



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Operating conditions EX
(Original instructions)

8071625
1704
[8071627]



Valve terminal combination VTUS-VUVS English



For all available product documentation → www.festo.com/pk



Note

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

1 Function

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

2 Application

- The valve terminal VTUS is intended for control of pneumatic components.
- Operate the device with compressed air of the following quality class in accordance with ISO 8573-1:2010: [7:4:4].
- The device can be used under the stated operating conditions in zone 2, explosive gas atmospheres, and in zone 22, explosive dust atmospheres.



Note

Label X: special conditions

- Do not disconnect when energised.
- 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, individual mounting: $-10\text{ °C} \leq T_a \leq +60\text{ °C}$
- Ambient temperature, 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 equipment group IIB is observed.

- Use the device in its original status, without any unauthorised modifications. Any manipulation performed on the device by anyone other than the manufacturer will void the certification.
- The following work should only be performed outside potentially explosive areas: commissioning, maintenance, mounting.

3 Commissioning

- Observe the specifications on the product labelling.
- Comply with all applicable national and international regulations.



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.



Note

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



Note

Particulate matter in the compressed air can cause electrostatic charges.



Note

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

4 Operation

- Observe the operating conditions.
- Observe the information in the general operating instructions.
- Comply with permissible limit values → Technical data.
- Draw in operating medium outside potentially explosive areas.

5 Maintenance and care

- Perform maintenance only outside potentially explosive areas.

6 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 DC operating voltage	V	24 ±10 %
Degree of protection	IP65 in accordance with EN60529	
Degree of contamination	2	
Mounting position	–	Any
Duty cycle	%	100 (continuous operation)
Materials		
Seals	Nitrile rubber	
Housing	–	Painted die-cast aluminium
Piston spool	–	Aluminium alloy High-alloy steel, Stainless
CE marking (Declaration of conformity → www.festo.com/sp)	In accordance with EU Explosion Protection Directive (ATEX)	

1)

Fig. 1

7 Approved combinations

Use only the following combinations:

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

Fig. 2

8 Approved accessories

Only use the following plug sockets:

Plug socket	Part number
MSSD-C-24V-EX	8031176
MSSD-F	34431
MSSD-EB-M12-24VDC-SD-EX	570367

Fig. 3