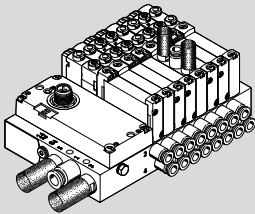


VTUG, VUVG (Plugin)
Valve terminal/Solenoid valve



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Operating conditions | UL, CSA

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[8119805]




Translation of the original instructions


1 About this document
1.1 Applicable documents

 All available documents for the product → www.festo.com/pk.

2 UL/CSA certification
In conjunction with the UL-/CSA-mark on the product, the information in this document applies for fulfilling the certification conditions of Underwriters Laboratories Inc. (UL) and CSA International (CSA) for USA and Canada.

UL certification information	
Product category code	YIOZ2 (USA) YIOZ8 (Canada)
File number	MH19482
Considered standards	UL 429 CAN/CSA-C22.2 No. 139
UL mark	

Tab. 1 UL certification information

CSA certification information	
Product category code	CLASS 3221 01 - VALVES (Canada) CLASS 3221 81 - VALVES (USA)
File number	255356
Considered standards	CAN/CSA-C22.2 No. 139 UL 429
CSA mark	

Tab. 2 CSA certification information

Only for VTUG plug-in with VABM...S manifold rail (T-profile): NEMA Type Rating for Enclosure	
Type Rating	4X
Considered standards	NEMA 250-2014

Tab. 3 Type class

- Technical specifications on the product may show different values in other documents. In the case of UL-/CSA-certified products, the technical specifications in this documentation always apply first.
- Only for connection to a NEC/CEC Class 2 supply.
- Fitting and commissioning is to be carried out by qualified personnel only in accordance with the operating instructions.
The personnel must have several years of training and experience in installing and commissioning electrical and pneumatic industrial control systems.
- Conversion or extension of the product with modules, for which the UL mark and/or CSA mark does not apply, will lead to loss of the UL and/or CSA certification.

Acceptance conditions

- In determining the acceptability of these valves in the end-use, the following shall be determined:
- These valves have been evaluated for connection to an NEC Class 2 source only.
 - These valves are only intended for use in indoor-dry locations only.
 - The valve connectors are intended to be factory-wired only.

- The suitability of the factory-wiring, including mating connectors, for secure-ness, and grounding of dead-metal, shall be determined in the end-product.
- These valves are intended for use in an ultimate electrical enclosure, and the need for an electrical enclosure for the valves shall be determined in the end-product application.
- These valves are intended for use in a suitable enclosure or mounted in a guarded and protected location where the valve body will be protected against impact.
- The suitability of the grounding/bonding connection shall be evaluated in the endproduct application.
- The suitability of the fluid connections to these valves, with respect to secure-ment and leakage, are to be determined in the end-product application.
- These valves are intended to be used in conjunction with air-tubes with the following fittings designation:

Valve size 10		
Port	Air tube diameter	Size thread
12, 14, 82, 84	3, 4, 6	M5
1, 3, 5	3/8, 5/16, 6, 8, 10	1/8, 1/4, 5/16
2, 4	1/4, 1/8, 3/16, 5/32, 3, 4, 6	M5, M7, 1/8, 1/4, 3/16, 5/32

Tab. 4 Valve size 10

Valve size 14		
Port	Air tube diameter	Size thread
12, 14, 82, 84	3, 4, 6	M5
1, 3, 5	3/8, 5/16, 8, 10, 12	1/4, 3/8, 5/16
2, 4	1/8, 1/4, 5/16, 4, 6, 8	1/8, 1/4, 5/16

Tab. 5 Valve size 14

Only for manifold rail VABM-...-S: valve size 10 when used in a type 4X control cabinet		
Port	Air tube diameter	Size thread
12, 14, 82, 84	4, 6, 8, 1/8, 3/16, 1/4, 5/16	1/8
1, 3, 5	6, 8, 10, 5/32, 3/16, 1/4, 3/8	1/8, 1/4
2, 4	1/8, 1/4, 3/16, 5/32, 3, 4, 6	M7

Tab. 6 Valve size 10

Only for manifold rail VABM-...-S: valve size 14 when used in a type 4X control cabinet		
Port	Air tube diameter	Size thread
12, 14, 82, 84	4, 6, 8, 1/8, 3/16, 1/4, 5/16	1/8
1, 3, 5	6, 8, 10, 12, 3/16, 1/4, 5/16, 3/8, 1/2	1/4, 3/8
2, 4	4, 6, 8, 1/4, 5/16	1/8

Tab. 7 Valve size 14

- The air valve terminals for use in a Type 4X enclosure, can be used to complete an enclosure with respective Type rating of an enclosure without electric components. The air valve terminals need to be enclosed from electric components.
- The air valve terminals for use in a Type 4X enclosure are intended to be used with any fitting which shall be fabricated of Type 304 stainless steel (AISI) or Type 4X fittings related to CofA 9.

Only for CSA international:

- These valve assemblies are intended for use as components in end-product equipment where the suitability of the combination is determined by CSA International.

3 Technical data for UL/CSA certification

Technical data UL/CSA	
Minimum operating pressure differential	0 bar (0 psi)
Maximum operating pressure differential	10 bar (145 psi)
Maximum external body pressure	10 bar (145 psi)
Maximum fluid temperature/ambient	–5 °C ... +50 °C (+23 °F ... +122 °F)
Electrical (for each separate pilot valve)	Class 2, 24 V DC, max. 1 W

Tab. 8 Technical data UL/CSA