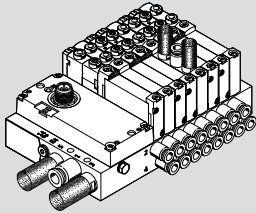


VTUG/VUVG
Valve terminal, Solenoid valve



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Addendum document | Operating conditions UL

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Translation of the original instructions

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1 Applicable documents

 All available documents for the product ➔ www.festo.com/sp.

2 UL approval

In combination with the UL inspection mark on the product, the information in this section must also be observed in order to comply with the certification conditions of Underwriters Laboratories Inc. (UL) for USA and Canada.

UL approval information	
Product category code	YIOZ2 (USA) YIOZ8 (Canada)
File number	MH19482
Considered standards	UL 429
UL mark	

Tab. 1: UL approval information

- Technical data for the product may have different values in other documents. The technical data in this document will always have priority for the UL-certified products.
- 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.
- A retrofit or expansion of the product with modules for which the UL mark does not apply will result in loss of the UL 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: ➔ 2.1 Manifold rail VABM, ➔ 2.2 Manifold rail VABM-L1-...-S1/-S2 for control cabinet installation.

2.1 Manifold rail VABM

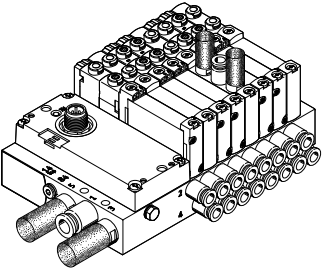


Fig. 1: Valve terminal with VABM manifold rail

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. 2: Thread sizes and tubing diameters, 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. 3: Thread sizes and tubing diameters, valve size 14

2.2 Manifold rail VABM-L1-...-S1/-S2 for control cabinet installation

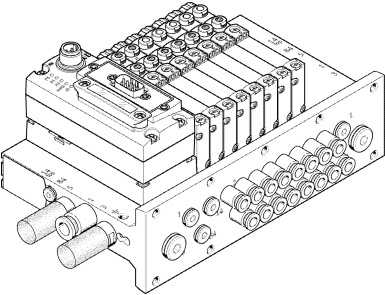


Fig. 2: Valve terminal with manifold rail VABM-L1-...-S1/-S2

Valve size 10		
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. 4: Thread sizes and tubing diameters, valve size 10

Valve size 14		
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. 5: Thread sizes and tubing diameters, valve size 14

3 Operating conditions for control cabinet installation

NEMA Type Rating for Enclosure	
Type Rating	4X
Considered standards	NEMA 250-2014

Tab. 6: NEMA type class

- 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.
- The valve terminals for use in a control cabinet type 4X must be used with the Festo stainless steel sheet.

4 Technical data for UL approval

VTUG		
Operating pressure	[MPa]	0 ... 1
	[psi]	0 ... 145
Maximum external body pressure	[MPa]	1
	[psi]	145
Maximum fluid temperature/ambient	[°C]	−5 ... +50
	[°F]	23 ... +122
Electrical (for each separate pilot valve)	[V DC]	24
	[W]	1

Tab. 7: Technical data UL