



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Pendulum valve, Series 162, DN 250 (ID 10")**  
**Ordering No. 16248-PA41**

### Description

Flange	ISO-F 250
Actuator	– pneumatic, single acting, with closing spring (NC) – with solenoid valve – with position indicator
Feedthrough	Rotary feedthrough

### Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-8} \text{ mbar}$ to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2 \text{ bar}$
Differential pressure at opening		$\leq 5 \text{ mbar}$
Conductance (molecular flow)		$21\,700 \text{ ls}^{-1}$
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve – Position indicator	$\leq 120 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$ $\leq 50 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$
Heating and cooling rate		$\leq 30 \text{ }^{\circ}\text{C h}^{-1}$
Material	– Valve body, gate, sealing ring  – Feedthrough	EN AW-5083 (3.3547), EN AW-6082 (3.2315)  AISI 303 (1.4305), AISI 304 (1.4301)
Seal	– Bonnet – Gate, dynamic – Feedthrough	FKM (Viton®) FKM (Viton®) FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		0.35 l / 0.012 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G1/8" (ISO / NPT for USA)

Created by: MAEM	Release date: 2013-01-29	1 of 2
Modified by:	Release date:	<b>269791EA</b>



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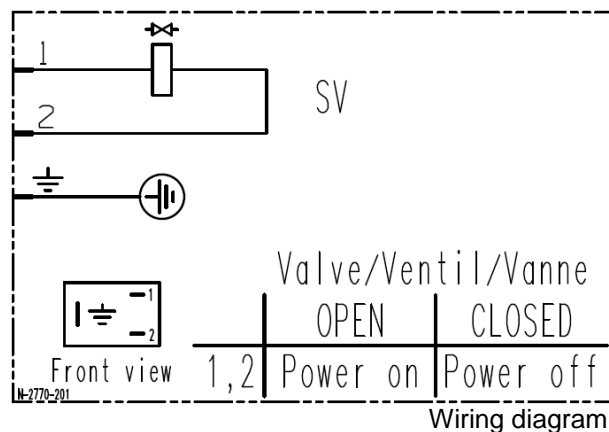
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Actuation time	– closing	4 s
	– opening	4 s
Weight		30 kg / 66.1 lbs
Behavior in case of compressed air pressure drop	– Valve closed	valve remains closed
	– Valve open	valve closes
Behavior in case of power failure	– Valve closed	valve remains closed
	– Valve open	valve closes

## Electrical connections

### Solenoid valve

Type	4/2 way
Voltage	Defined by order



### Position indicator

Type	Micro switch
Voltage	≤ 50 V AC
Current max.	≤ 1.2 A

