



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

### Pendulum valve, Series 162, DN 250 (ID 10'')

### Ordering No. 16248-PH41

#### 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	$< 1 \cdot 10^{-6}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-5}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-6}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2$ bar
Differential pressure at opening		$\leq 5$ mbar
Conductance (molecular flow)		21 700 ls <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve body – Actuator – Solenoid valve – Position indicator	$\leq 120$ °C $\leq 80$ °C $\leq 50$ °C $\leq 80$ °C
(Maximum values: depending on operating conditions and sealing materials)		
Heating and cooling rate		$\leq 30$ °C h <sup>-1</sup>
Material	– Valve body, gate, sealing ring  – Feedthrough	EN AW-5083 (3.3547), EN AW-6082 (3.2315) Hardanodized  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)

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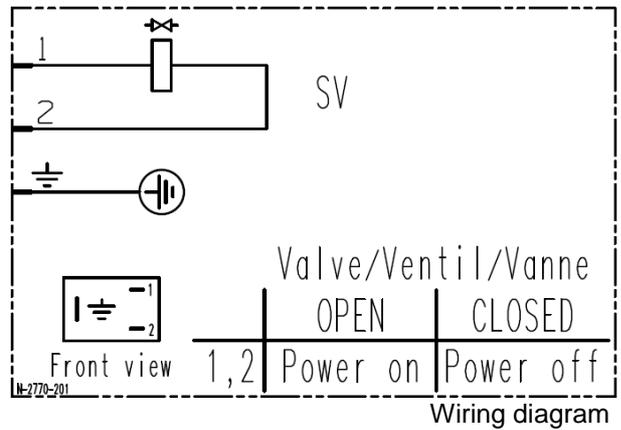
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Actuation time	- closing	4 s
	- opening	4 s
Weight		30 kg / 66.1 lbs
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	valve closes
Behavior in case of power failure	- Valve closed	valve remains closed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

