



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Pendulum valve, Series 162, DN 250 (ID 10'')**  
**Ordering No. 16248-PA28**

### Description

Flange	ISO-F 250
Actuator	– 3-position pneumatic with closing spring (NC) – with position indicator
Feedthrough	Rotary feedthrough

### Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup> $< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
Pressure range		$1 \cdot 10^{-8}$ 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>
Minimum conductance (molecular flow) 3 <sup>rd</sup> position		22 ls <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Position indicator	$\leq 120$ °C $\leq 80$ °C $\leq 80$ °C
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)  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		M5 (10-32 UNF suitable)
Actuation time	– closing – opening	4 s 4 s
Weight		30 kg / 66.1 lbs

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Behavior in case of compressed air pressure drop – Valve closed  
– Valve open

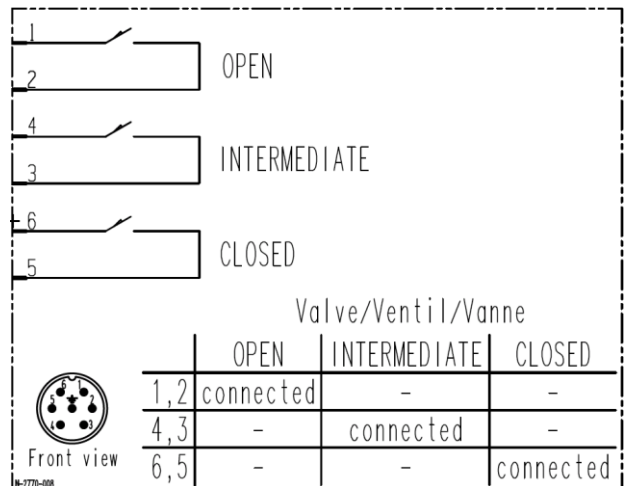
Behavior in case of power failure – Valve closed  
– Valve open

valve remains closed  
valve closes

depending on customer installation  
depending on customer installation

### Position indicator

Type Micro switch  
Voltage  $\leq 50$  V AC  
Current max.  $\leq 1.2$  A



Wiring diagram