



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

### Pendulum valve, Series 162, DN 550 (ID 22'')

### Ordering No. 16255-JA21

#### Description

Flange	JIS 550
Actuator	pneumatic, single acting with closing spring – with position indicator
Feedthrough	Rotary feedthrough

#### Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9}$ mbar ls <sup>-1</sup>
	– Valve seat	$< 1 \cdot 10^{-9}$ 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)		135 000 ls <sup>-1</sup>
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature	– Valve body	$\leq 120$ °C
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 80$ °C
	– Position indicator	$\leq 80$ °C
Heating and cooling rate		$\leq 30$ °C h <sup>-1</sup>
Material	– Valve body	EN AC-42100 (3.2371)
	– Gate	EN AW-6082 (3.2315)
	– Sealing ring	EN AW-6082 (3.2315)
	– Feedthrough	AISI 304 (1.4301)
Seal	– Bonnet	FKM (Viton®)
	– Gate, dynamic	FKM (Viton®)
	– Feedthrough	FKM (Viton®)
Mounting position		horizontal and vertical
Volume of pneumatic actuator		1.5 l / 0.053 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	14 s
	– opening	14 s
Weight		119 kg / 262 lbs

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

valve remains closed  
valve closes

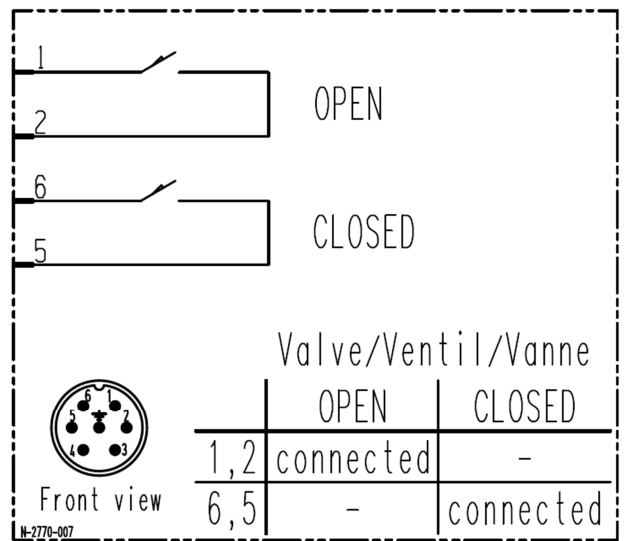
Behavior in case of power failure – Valve closed  
– Valve open

valve remains closed  
valve closes

## Electrical connections

### Position indicator

Type Micro switch  
Voltage 12 – 24 V AC / DC  
Current max. 5 – 20 m A



Wiring diagram

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