



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**Large pendulum valve, Series 168, DN 500 (ID 20")**  
**Ordering No. 16854-AA24**

### Description

Flange	ASA-500
Actuator	Pneumatic, double acting – 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		$1 \cdot 10^{-7}$ mbar to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2$ bar
Differential pressure at opening		$\leq 30$ mbar
Conductance (molecular flow)		90 000 ls <sup>-1</sup>
Cycles until first service		100 000
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), EN AW-6082 (3.2315)
	– Mechanics	EN AC-42100 (3.2371)
	– Gate	EN AW-6082 (3.2315)
	– Feedthrough	EN AW-6082 (3.2315), AISI 303 (1.4305)
Seal	– Bonnet	FKM (Viton®)
	– Gate	FKM (Viton®)
	– Actuator	FKM (Viton®), NBR
	– Feedthrough	FKM (Viton®)
Mounting position		any
Volume of pneumatic actuator		3.3 l / 0.116 ft <sup>3</sup>
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		1/8" ISO / NPT
Actuation time	– closing	14 s
	– opening	14 s

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Weight

115 kg / 254 lbs

Behavior in case of compressed air pressure drop

- Valve closed
- Valve open
- During actuation

valve remains closed  
undefined  
undefined

Behavior in case of power failure

- Valve closed
- Valve open
- During actuation

depending on customer installation  
depending on customer installation  
depending on customer installation

### Position indicator

Type

Micro switch

Voltage

≤ 50 V AC / DC

Current max.

≤ 3 A

