



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Large pendulum valves
Series 168, DN 500 (20")
Ordering No. 16854-PA28-0002

Description

Flange	ISO-F 500
Actuator	3-position pneumatic, double acting – with position indicator
Feedthrough	Rotary feedthrough

Technical data

Leak rate	– Valve body	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
	– Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-7} \text{ mbar}$ to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2 \text{ bar}$
Differential pressure at opening		$\leq 30 \text{ mbar}$
Conductance (molecular flow)		$90\,000 \text{ ls}^{-1}$
Minimum conductance (molecular flow) 3 rd position		200 ls^{-1}
Cycles until first service		100 000
Temperature	– Valve body	$\leq 120 \text{ }^\circ\text{C}$
(Maximum values: depending on operating conditions and sealing materials)	– Actuator	$\leq 80 \text{ }^\circ\text{C}$
	– Position indicator	$\leq 80 \text{ }^\circ\text{C}$
Heating and cooling rate		$\leq 30 \text{ }^\circ\text{C h}^{-1}$
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 ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		1/8" ISO / NPT

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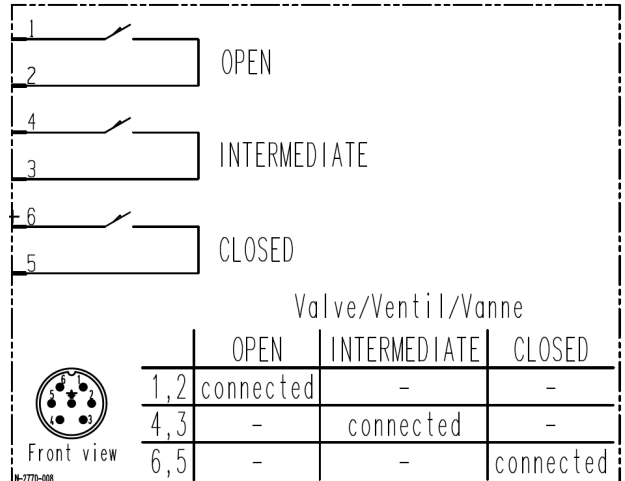
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Actuation time	- closing	14 s
	- opening	14 s
Weight		115 kg / 254 lbs
Behavior in case of compressed air pressure drop	- Valve closed	valve remains closed
	- Valve open	undefined
	- During actuation	undefined
Behavior in case of power failure	- Valve closed	valve remains closed
	- Valve open	valve closes
	- During actuation	valve closes

Position indicator

Type	Micro switch
Voltage	≤ 50 V AC / DC
Current max.	≤ 3 A



Wiring diagram