



VAT Vakuumventile AG
CH-9469 Haag, Schweiz

Product data sheet

Pendulum valve, Series 162, DN 320 (ID 12")
Ordering No. 16250-PA48

Description

Flange	ISO-F 320
Actuator	– 3-position pneumatic with closing spring (NC) – with solenoid valve – with position indicator
Feedthrough	Rotary feedthrough

Technical data

Leak rate	– Valve body – Valve seat	$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$ $< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$
Pressure range		$1 \cdot 10^{-8} \text{ mbar}$ to 1.2 bar (abs)
Differential pressure on the gate		$\leq 1.2 \text{ bar}$
Differential pressure at opening		$\leq 5 \text{ mbar}$
Conductance (molecular flow)		$32\,600 \text{ ls}^{-1}$
Minimum conductance (molecular flow) 3 rd position		54 ls^{-1}
Cycles until first service		200 000 (unheated and under clean conditions)
Temperature (Maximum values: depending on operating conditions and sealing materials)	– Valve body – Actuator – Solenoid valve – Position indicator	$\leq 120 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$ $\leq 50 \text{ }^{\circ}\text{C}$ $\leq 80 \text{ }^{\circ}\text{C}$
Heating and cooling rate		$\leq 30 \text{ }^{\circ}\text{C h}^{-1}$
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		0.55 l / 0.020 ft ³
Compressed air min. – max. overpressure		5 – 7 bar / 73 – 102 psi
Compressed air connection		G1/8" (ISO / NPT for USA)
Actuation time	– closing – opening	5 s 5 s
Weight		56 kg / 123.5 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

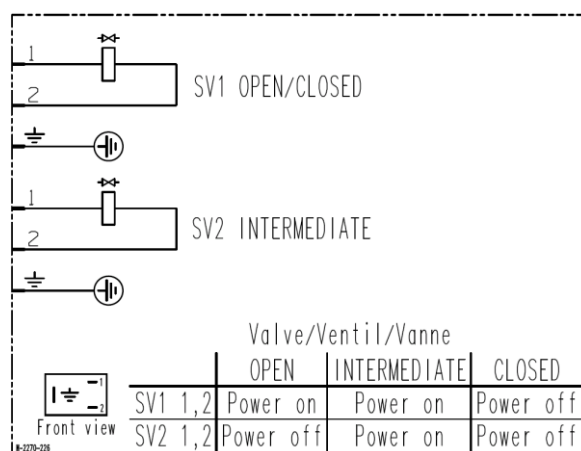
Solenoid valve

Type

4/2 way

Voltage

Defined by order



Wiring diagram

Position indicator

Type

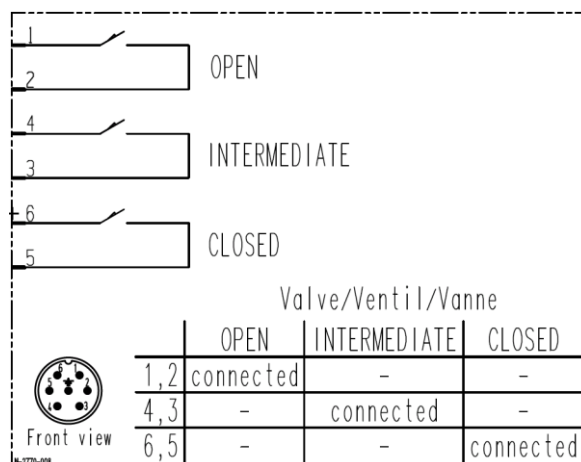
Micro switch

Voltage

≤ 50 V AC

Current max.

≤ 1.2 A



Wiring diagram